

University of Warwick institutional repository: <http://go.warwick.ac.uk/wrap>

**A Thesis Submitted for the Degree of DCLinPsych at the University of
Warwick**

<http://go.warwick.ac.uk/wrap/65215>

This thesis is made available online and is protected by original copyright.

Please scroll down to view the document itself.

Please refer to the repository record for this item for information to help you to cite it. Our policy information is available from the repository home page.

PERFECTIONISM IN CHILDREN AND ADULTS:
MAINTAINING MECHANISMS AND TREATMENT
IMPLICATIONS

Damian Wilde

Thesis submitted in partial fulfilment for the degree of Doctor of
Clinical Psychology

Clinical Psychology Department
Coventry University and The University of Warwick

May 2014

<u>CONTENTS</u>	<u>PAGE</u>
Tables and Figures	1
Appendices	2
Acronyms	3
Acknowledgements	5
Declaration	6
Summary of Thesis	7
<u>Chapter 1: Literature Review</u>	8
‘A Systematic Review of Psychological Interventions for Perfectionism in Adults.’	
1.0 ABSTRACT	9
1.1 <u>INTRODUCTION</u>	10
1.1.1 Definition and Different Types of Perfectionism	10
1.1.2 Aetiology	11
1.1.3 Characteristics in Perfectionism & Maintaining Mechanisms	12
1.1.4 Measures of Perfectionism	13
1.1.5 Consequences of Perfectionism	14
1.1.6 Treatment Implications	15
1.1.7 Treatment of Perfectionism in Adults	16
1.2 AIMS OF THE REVIEW	16
1.3 <u>METHOD</u>	17
1.3.1 Search Terms	17
1.3.2 Database Search	17
1.3.3 Inclusion and Exclusion Criteria	18

1.3.4	Systematic Review Search Results	19
1.3.5	Reviewing Papers	21
1.3.6	Quality Checklist	21
1.4	<u>RESULTS</u>	23
1.4.1	Analysis of Reviewed Studies	27
1.4.1.1	Introduction	27
1.4.1.2	<u>Key Findings of Reviewed Studies</u>	28
1.4.1.2.1	Randomised Control Trials	28
1.4.1.2.2	Group Intervention Studies	35
1.4.1.2.3	Single-Case Studies	38
1.4.1.3	<u>Other Study Characteristics</u>	42
1.4.1.3.1	Study Participants	42
1.4.1.4	Quality of Analysis	43
1.5	<u>DISCUSSION</u>	44
1.5.1	Summary of Key Findings	44
1.5.2	Methodological Concerns of Reviewed Studies	45
1.5.3	Limitations of the Review	45
1.5.4	Clinical Practice and Future Research	46
1.5.5	Conclusion	48
1.6	REFERENCES	49

‘Investigating the Relationship between Multidimensional Perfectionism,
Self-esteem, Self-criticism, and Mood in Primary School Children.’

2.0	ABSTRACT	59
2.1	<u>INTRODUCTION</u>	60
2.1.1	Multidimensional Perfectionism	60
2.1.2	Origins and Development of Perfectionism	61
2.1.3	Processes Involved in Perfectionism	61
2.1.4	Perfectionism in Adolescence and Adulthood	63
2.1.5	Perfectionism in Children	65
2.2	AIMS, RESEARCH QUESTION, AND HYPOTHESES	71
2.3	<u>METHOD</u>	72
2.3.1	Design	72
2.3.2	Participants	72
2.3.3	Materials	73
2.3.3.1	Adaptive/Maladaptive Perfectionism Scale	73
2.3.3.2	Rosenberg Self-Esteem Scale	74
2.3.3.3	Self-Rating Scale	74
2.3.3.4	Short Mood and Feelings Questionnaire	75
2.3.4	Procedure	76
2.4	<u>RESULTS</u>	77
2.4.1	Data Analysis	77
2.4.2	Analysis of Sex Differences	78
2.4.3	Correlations between Variables	81
2.4.4	Preliminary Data Screening	82

2.4.5	Perfectionism and Mood, Mediated by Self-Esteem and Self-Criticism	83
2.4.6	Dimensions of Perfectionism and Mood, Mediated by Self-Esteem	85
2.4.7	Dimensions of Perfectionism and Mood, Mediated By Self-Criticism	87
2.5	<u>DISCUSSION</u>	89
2.5.1	Present Study	89
2.5.2	Correlations between Perfectionism Dimensions and Other Variables	89
2.5.3	The Relationship between Perfectionism and Mood, Mediated by Self-Esteem	90
2.5.4	The Relationship between Perfectionism and Mood, Mediated by Self-Criticism	91
2.5.5	The Relationship between Dimensions of Perfectionism and Mood, Mediated by Self-Esteem	91
2.5.6	The Relationship between Dimensions of Perfectionism and Mood, Mediated by Self-Criticism	95
2.5.7	Sex Differences in Perfectionism and Associated Variables	96
2.5.8	Limitations	97
2.5.9	Directions for Future Research	98
2.5.10	Conclusion	100
2.6	REFERENCES	102

Chapter 3: Reflective Paper 111

‘Confessions of a Trainee Clinical Psychologist: Reflections
on the Doctoral Thesis Journey.’

3.0	INTRODUCTION	112
3.1	‘WHY DID YOU TEAR IT UP?’	112
3.2	RESEARCH DESIGN AND THESIS PROPOSAL	113
3.3	THESIS PROPOSAL GRADE	114
3.4	FIGHTING FIRES	115
3.5	LEARNING AND REFLECTION	116
3.6	THE BEAST	118
3.7	<u>SELF-CARE</u>	119
3.7.1	‘I’ve got a Doctoral Thesis to do.’	119
3.7.2	Mindfulness	120
3.7.3	Nil Satis Nisi Optimum	121
3.7.4	Increasing Cerebral Blood Flow	123
3.8	REFLECTION IN AND ON ACTION	123
3.9	FEELING SAD	124
3.10	PERFECTIONISM	124
3.11	PROGRESSION AS A PSYCHOLOGIST AND RESEARCHER	125
3.12	CONCLUSIONS	126
3.13	REFERENCES	128

<u>TABLES AND FIGURES</u>	<u>PAGE</u>
<u>Chapter 1: Literature Review</u>	
<u>Table 1</u>	Table displaying search terms used to identify Papers 17
<u>Table 2</u>	Table displaying an Overview of Studies and Quality Analysis Results 23
<u>Figure 1</u>	Prisma Flow Diagram Identifying the Search Process 20
<u>Chapter 2: Empirical Paper</u>	
<u>Table 1</u>	Sex Differences with Perfectionism, Perfectionism Dimensions, Self-Esteem, Self-Criticism, and Mood 79
<u>Table 2</u>	Correlation Matrix detailing Correlations between Dimensions of Perfectionism, and other Variables 81
<u>Table 3</u>	Standardised beta coefficients, <i>t</i> -values and <i>p</i> -values for variables in Mediation Model 1 84
<u>Table 4</u>	Standardised beta coefficients, <i>t</i> -values and <i>p</i> -values for variables in Mediation Model 2 86
<u>Table 5</u>	Standardised beta coefficients, <i>t</i> -values and <i>p</i> -values for variables in Mediation Model 3 88
<u>Table 6</u>	Main Study Findings 101
<u>Figure 1</u>	Mediation Model 1 - Perfectionism and Mood, Mediated by Self-Esteem, and Self-Criticism 83
<u>Figure 2</u>	Mediation Model 2 – Dimensions of Perfectionism and Mood, Mediated by Self-Esteem 85
<u>Figure 3</u>	Mediation Model 3 - Dimensions of Perfectionism and Mood, Mediated by Self-Criticism 87

<u>APPENDICES</u>	<u>PAGE</u>
Appendix 1: Author Guidelines: Clinical Psychology Review	131
Appendix 2: Author Guidelines: Journal of Child Psychology and Psychiatry	143
Appendix 3: Author Guidelines: Reflective Practice	152
Appendix 4: Quality Checklist	158
Appendix 5: Quality Analysis Results	160
Appendix 6: Ethical Approval	164
Appendix 7: Research Letter for Schools	165
Appendix 8: Parental Information/Consent Letter	167
Appendix 9: Participant Information Sheet	169
Appendix 10: Child Consent Form	170
Appendix 11: Adaptive/Maladaptive Perfectionism Scale	171
Appendix 12: Rosenberg Self-Esteem Scale	172
Appendix 13: Self-Rating Scale	173
Appendix 14: Mood and Feelings Questionnaire	174
Appendix 15: Participant Debrief Sheet	175

ACRONYMS

AMPS	Adaptive/Maladaptive Perfectionism Scale
APS	Almost Perfect Scale
ASI	Anxiety Sensitivity Index
ATQ	Automatic Thoughts Questionnaire
BN	Bulimia Nervosa
CAMHS	Child and Adolescent Mental Health Service
CBT	Cognitive Behaviour Therapy
CM	Concern over Mistakes
CPE	Clinical Perfectionism Examination
CR	Cognitive Restructuring
DAS	Dysfunctional Attitudes Scale
GSH	Guided Self-help
GSM	General Stress Management
HCM	High Concern over Mistakes
IT	Immediate Treatment
LCM	Low Concern over Mistakes
MPS	Multidimensional Perfectionism Scale
N.A.	Non-Applicable

NATs	Negative Automatic Thoughts
NICE	National Institute of Clinical Excellence
NT	No Treatment
OOP	Other Orientated Perfectionism
PCI	Perfectionism Cognition Inventory
PHSCS	Piers-Harris Self-Concept Scale
PIS	Participant Information Sheet
PSH	Pure Self-help
RCT	Randomised Control Trial
RSES	Rosenberg Self-Esteem Scale
SEM	Structural Equations Modelling
SMFQ	Short Mood and Feelings Questionnaire
SOP	Socially Orientated Perfectionism
SPP	Socially Prescribed Perfectionism
SRS	Self-Rating Scale
SUDS	Subjective Units of Distress Scale
WEIRD	Westernised Educated People from Industrialised Rich Democracies
WL	Waitlist

ACKNOWLEDGEMENTS

I would like to thank a number of people who have given valuable guidance during this difficult, but enjoyable process. Thank you to Jacky Knibbs for her advice and guidance throughout the process, giving support with design, recruitment and excellent advice during the drafting process. She often told me to 'keep going' and told me how well I was doing; words of encouragement which were really helpful.

A big thank you goes to Dr Ian Hume for his help, guidance, and humour throughout the doctoral thesis process. He offered a tireless amount of support and gave invaluable guidance, particularly during data analysis.

Thanks also to Dr Laura Taylor for her help with ideas on design and recruitment. She was approachable, and always bright and enthusiastic! I am extremely grateful for all the support and guidance given to me by the supervisory team and it is much appreciated.

Thank you to the schools across Coventry and Warwickshire who participated in the research. All staff were enthusiastic, helpful and very accommodating. Thank you to parents, who took the time to read study information, and especially to the children who participated and for their engaging and pleasant manner.

I would also like to thank my family for their unconditional love and support, especially my parents and siblings. They have been with me every step of the way and kept me calm when stressed. I am extremely fortunate to have such loving and supportive family and friends and love them all dearly.

DECLARATION

The thesis has been carried out and submitted as part of the Clinical Psychology Doctorate provided jointly by Coventry University and The University of Warwick. The thesis has only been submitted for this doctoral programme and has not been submitted at any other institution. The thesis is the candidate's own work.

The thesis was carried out under the supervision of three supervisors at Coventry University; Jacky Knibbs, Dr Ian Hume, and Dr Laura Taylor.

The three thesis papers will be prepared for publication for the following journals:

1. **Literature Review:** Clinical Psychology Review
2. **Empirical Paper:** Journal of Child Psychology and Psychiatry
3. **Reflective Paper:** Reflective Practice

See appendices 1-3 for author's instructions on preparing for publication for the above journals.

SUMMARY OF THESIS

The thesis consists of three papers; literature review, empirical paper, and reflective paper. The literature review evaluates the effectiveness of psychological interventions for perfectionism in adults. The systemic review analysed 12 papers comprising of; randomised control trials, group intervention studies, and single case designs. Interventions were varied in delivery, such as face-to-face or web-based with the majority using a CBT intervention. A number of studies showed effectiveness for the treatment of perfectionism in adults, but some were narrow in use of population e.g. a high proportion of female participants. Clinical implications are discussed.

The empirical paper investigated the relationship between multidimensional perfectionism, self-criticism, self-esteem, and mood in primary school children. A non-clinical population (9-11 years of age) of 90 children were recruited with quantitative measures utilised. Mediation models were used to establish if any relationships existed. Results showed a significant relationship between self-esteem and mood, and perfectionism dimensions, such as sensitivity to mistakes and mood were significantly mediated by self-esteem and self-criticism. Results are discussed in comparison with previous research and clinical and education implications are discussed.

The reflective paper reflects upon the personal and professional doctoral thesis journey. Starting from generation of idea, moving through the emotional journey of design, recruitment and write-up, and focusing on aspects such as self-care.

Word count of Thesis: 19,984 (excluding all pages preceding Chapter 1, and title pages, figures, tables, reference lists, and appendices)

Chapter 1: Literature Review

A Systematic Review of Psychological Interventions for Perfectionism in Adults

Chapter Word Count: 7,986 (excluding title page, figures, tables, and reference list)

Prepared for Submission to: Clinical Psychology Review (see Appendix 1 for Author Guidelines)

1.0 ABSTRACT

A person experiencing maladaptive perfectionism will try to achieve as highly as possible and will have high levels of fear regarding mistakes and failure, which can be maintained by negative appraisals of situations and achievements (Shafran, Cooper, & Fairburn, 2002). This debilitating condition can present as a primary problem, but is also viewed as being transdiagnostic (Egan, Wade, & Shafran, 2011). Since 1994 a number of studies reporting the evaluation of psychological treatments for maladaptive perfectionism in adults have been published. This systematic review assesses the quality of this empirical research and discusses what types of treatments are effective for perfectionism in adults. Five key databases were searched for relevant peer-reviewed articles published in the English language. After exclusion criteria were applied, twelve articles were included in the review, which comprised of randomised control trials, group intervention studies, and single case design studies. The articles were assessed using a quality checklist. Results of the review suggest that psychological treatments for perfectionism in adults, especially CBT is effective in the short-medium term. Future research needs to address whether treatments are effective in the long-term and also whether other treatment models are effective in the treatment of perfectionism.

Keywords: maladaptive/clinical perfectionism, psychological intervention, adults, systematic review

1.1 INTRODUCTION

1.1.1 Definition and Different Types of Perfectionism

‘Clinical perfectionism’ is defined as:

‘The over dependence of self-evaluation on the determined pursuit of personality demanding, self-imposed, standards in at least one salient domain, despite adverse consequences.’ (Shafran, Cooper, & Fairburn, 2002, p. 778).

The authors state that central to clinical perfectionism is how much a person fears failure and because of this they constantly try to achieve as much as possible. They suggest this is maintained by a negative appraisal of situations and achievements. Flett & Hewitt (2002) describe perfectionism as a personality trait where a person sets extremely high standards for themselves and are heavily critical of any completed task.

As well as numerous definitions of perfectionism, researchers have proposed different types of perfectionism. Hamachek (1978) described ‘normal perfectionists’ and ‘neurotic perfectionists’. Normal perfectionists strive for success, but do not always have to be perfect in everything they do. Neurotic perfectionists are never happy with what they achieve and are left feeling dissatisfied, whatever the outcome. Sorotzkin (1985) argued that perfectionism can be present in narcissistic individuals trying to exhibit a grandiose sense of self, so as to avoid shame. Sorotzkin suggests that neurotic perfectionists try to avoid feelings of guilt brought on by not being able to keep the superego happy. The author concluded that this can have implications for treatment and cause ruptures, particularly for narcissistic

perfectionists, as perfectionism is required for self-worth and a challenge to this may be problematic. Although early research viewed perfectionism as a unidimensional construct (Burns, 1980), recent research has reported perfectionism to be a multidimensional construct (e.g. Hewitt & Flett, 1991).

Perfectionism has also been termed 'adaptive' and 'maladaptive' (Rice, Ashby, & Slaney, 1998). Adaptive perfectionism is linked with setting of high standards, but failure is not feared and positive affect is linked with this type of perfectionism (Frost, Heinberg, Holt, Mattia, & Neubauer, 1993). However, maladaptive perfectionists are described as having excessive concern over mistakes and fearing failure, with links to low self-esteem and depression (Preusser, Rice, & Ashby, 1994). Shafran et al. (2002) found the differing terms ambiguous. They argued that a healthy pursuit of excellence (i.e. adaptive perfectionism) is not clinically relevant. They added that clinical perfectionism, however, has such a negative impact upon a person's well-being that this type of perfectionism warranted research.

1.1.2 Aetiology

The development of perfectionism has been viewed as being linked with demanding parents (Frost, Lahart, & Rosenblate, 1991). Rodgers (1959) term 'conditions of worth' was seen by Barrow and Moore (1983) as an important element in the development of perfectionism. When a perfectionistic person attempts to achieve set goals, they believe that regard from others is crucial in this process. This self-worth can be developed by direct and indirect criticism where certain expectations are seen to be needed to be met and also modelling of perfectionistic behaviour from

parents. The authors further added that this can be maintained by maladaptive thinking and becomes more ingrained during adolescence due to developmental stage and strenuous life events. Research has demonstrated these links (Rice, Ashby, & Preusser, 1996). This study with 52 undergraduate students, reported that neurotic perfectionists viewed their parenting as more critical than normal perfectionists. The authors concluded that critical parenting can influence the development of perfectionism.

1.1.3 Characteristics in Perfectionism and Maintaining Mechanisms

Shafran et al. (2002) reviewed the features of clinical perfectionism from a cognitive behavioural approach. They examined the core processes involved and hypothesised there are a number of maintaining mechanisms, including i) *Core psychopathology*, termed as '*the morbid fear of failure and the relentless pursuit of success*' (p. 779). When someone perceives something as failure, this can lead to self-criticism and low self-image/esteem is maintained, which has been demonstrated (e.g. Flett, Hewitt, Blankstein, & Mosher, 1991). ii) *Setting of standards that embody dichotomous thinking*; a person has a set of rules to adhere to and when this does not occur a person may feel guilt. iii) *The need for self-control*; people will do everything they can to meet their goals and will not carry out activities, which impede this. vi) *Evaluation of performance*; an analysis of preparation and performance towards goals and any negativity is evidence that they are working tirelessly towards achieving their goals. v) *Failure to meet standards*; people evaluate their outcomes in a biased manner and focus on negative aspects of performance. These individuals will heavily self-monitor and end up avoiding tasks due to fear of failure. vi) *Successfully meeting standards*;

even if this occurs, reassessment can occur and targets can be set higher, thus strengthening levels of self-criticism. vii) *Other reasons for the persistence of perfectionism*; the continuous pursuit of excellence may help to provide control over aspects of a person's life. The authors further add that comorbidity is common, with links to eating disorders and obsessive compulsive disorder prevalent.

Qualitative analysis to identify key themes in perfectionistic behaviour was carried out using semi-structured interviews by Riley and Shaffran (2005). Fifteen people with clinical perfectionism were recruited to a study that used grounded theory for analysis. Six maintaining mechanisms were identified; self critical reaction to failure, positive emotional reaction to success, cognitive biases, rules and rigidity, avoidance, and escape. Other maintaining mechanisms also emerged; including safety behaviours, procrastination, fear driven motivation for achieving, and values driven motivation for achieving.

1.1.4 Measures of Perfectionism

There are a number of measures of perfectionism available for use with adults, including the Multidimensional Perfectionism Scale (MPS) (Hewitt & Flett, 1991). The scale consists of 45 items, scored over a seven point Likert scale (agree or disagree) and has three subscales which measure self-orientated perfectionism (SOP), other orientated perfectionism (OOP) and socially prescribed perfectionism (SPP). Hewitt and Flett's (1991) study reported that the three subscales have good reliability and validity.

Other measures include the Frost Multidimensional Perfectionism Scale (Frost, Marten, Lahart, & Rosenblate, 1990), which has six subscales e.g. concern over mistakes. Although this has been used extensively in research, it has been argued that there is factorial instability due to over extraction of components (Stoeber, 1998). The Almost Perfect Scale Revisited (Slaney, Rice, Mobley, Trippi, & Ashby, 2001) is a 23 item scale, which measures three subscales; discrepancy, high standards, and order. Good reliability was reported, though the goodness-to-fit indices were deemed not acceptable (Vandiver & Worrell, 2002).

1.1.5 Consequences of Perfectionism

Perfectionism has shown to impact heavily upon a person's day-to-day functioning (Burns, 1980). A study carried out with students; found that perfectionism was linked to low self-esteem, anxiety, and low mood (Brown et al., 1999). Research has shown perfectionism to be associated with eating disorders and depression (Pacht, 1984), obsessive compulsive disorder (Frost & Steketee, 1997), anxiety (Alden, Bieling, & Wallace, 1994), and depression (Argus & Thompson, 2008). Such a debilitating condition is thought to have a big impact upon a person's life, which Pacht (1984) succinctly summarises:

'In true life not only is perfection impossible, but the cost to those who seek it is inordinately high.' (p. 390).

1.1.6 Treatment Implications

Some researchers have suggested that perfectionism can be difficult to treat and can interfere with treatment. The National Institute of Mental Health Treatment of Depression Collaborative Research study found that perfectionism predicted poor treatment outcome at the end of treatment and at 18 month follow up (Blatt, Zuroff, Bondi, Sainslow, & Pilonis, 1998). According to Blatt and Zuroff (2002) rigid beliefs held by perfectionists are difficult to change and therefore interfere with treatment and can lead to unsuccessful interventions.

Perfectionism has also been described as a *transdiagnostic process* (Egan, Wade, & Shafran, 2011). In their clinical review the authors reported evidence has demonstrated that perfectionism causes and maintains a number of psychological difficulties that unless treated can lead to adverse outcome in therapeutic work, which clinicians should address.

Aware of possible treatment implications, Shafran et al. (2002) outlined some important treatment features consisting of four components. i) After understanding that perfectionism is causing adverse consequences, compiling a formulation, which will help develop a rich understanding of the origin of the problem and more specifically, the maintaining mechanisms ii) setting goals, which will see a client evaluate themselves iii) Use of behavioural experiments iv) Use of a CBT approach to evaluate standards and self-criticisms.

1.1.7 Treatment of Perfectionism in Adults

As perfectionism is viewed as a distressing personality feature to endure, Ferguson and Rodway (1994) proposed an empirical evaluation of a CBT treatment for perfectionism, which appears to be the first known evaluation of perfectionism treatment (Shafran & Mansell, 2001). Ferguson and Rodway argued that although treatments were being used clinically, little evidence for the effectiveness of these treatments was available. Since this publication, there has been more published empirical research regarding psychological treatments for perfectionism in adults and this review will be analysing the research and providing an overview of this.

1.2 AIMS OF THE REVIEW

The aim of this paper is to carry out a systematic review of psychological interventions for perfectionism in adults. The last review of research and treatment of perfectionism was carried out in 2001 (Shafran & Mansell, 2001). A number of randomised control trials (RCTs) and case studies have been published since. The specific aims of the systematic review are as follows:

1. To provide a critical appraisal of the empirical evidence base for the psychological treatment of perfectionism in adults.
2. To identify current gaps in research and to make recommendations for the focus of future research.
3. To provide a useful clinical tool for clinicians working with adults with maladaptive perfectionism.

1.3 **METHOD**

1.3.1 **Search Terms**

To carry out a search to identify the relevant papers for the review, a list of search terms were generated to ensure the appropriate research articles were included for analysis. Different variations of terms were used and some key words were truncated (see Table 1 below).

Table 1: Table displaying search terms used to identify papers reporting psychological interventions treating perfectionism in adults:

Search Term	Variation of Term
- Clinical Perfectionism	Perfectionism, maladaptive perfectionism
- Psychological intervention	Treatment*, therap*
- Adult	Adult*

Note. Search terms were incorporated using the Boolean search operator ‘and’ and ‘or’ being used with variant terms. Some variant terms were also truncated to include all possible terms and are denoted by *. Although perfect was not truncated, the search strategy was thorough enough to have produced variant terms e.g. perfectionistic in the title of articles.

1.3.2 **Database Search**

A number of key databases were used to ensure all the relevant literature was captured by the search. The following databases were used for the search; Amed, Cinahl, Medline, Psychinfo, and Scopus.

1.3.3 Inclusion and Exclusion Criteria

Inclusion Criteria

To ensure reviewed articles were of sufficient quality, only peer-reviewed papers were included. Intervention studies for participants with perfectionism were included and participants with comorbidity were included as long as the intervention was clearly treating perfectionism. Participants were 18 years of age upwards. Research studies from 1994 onwards were included as Shafran and Mansell (2001) identified no papers before this date detailing an evaluation of treatment of perfectionism in adults and because their review did not systematically review studies from 1994 onwards.

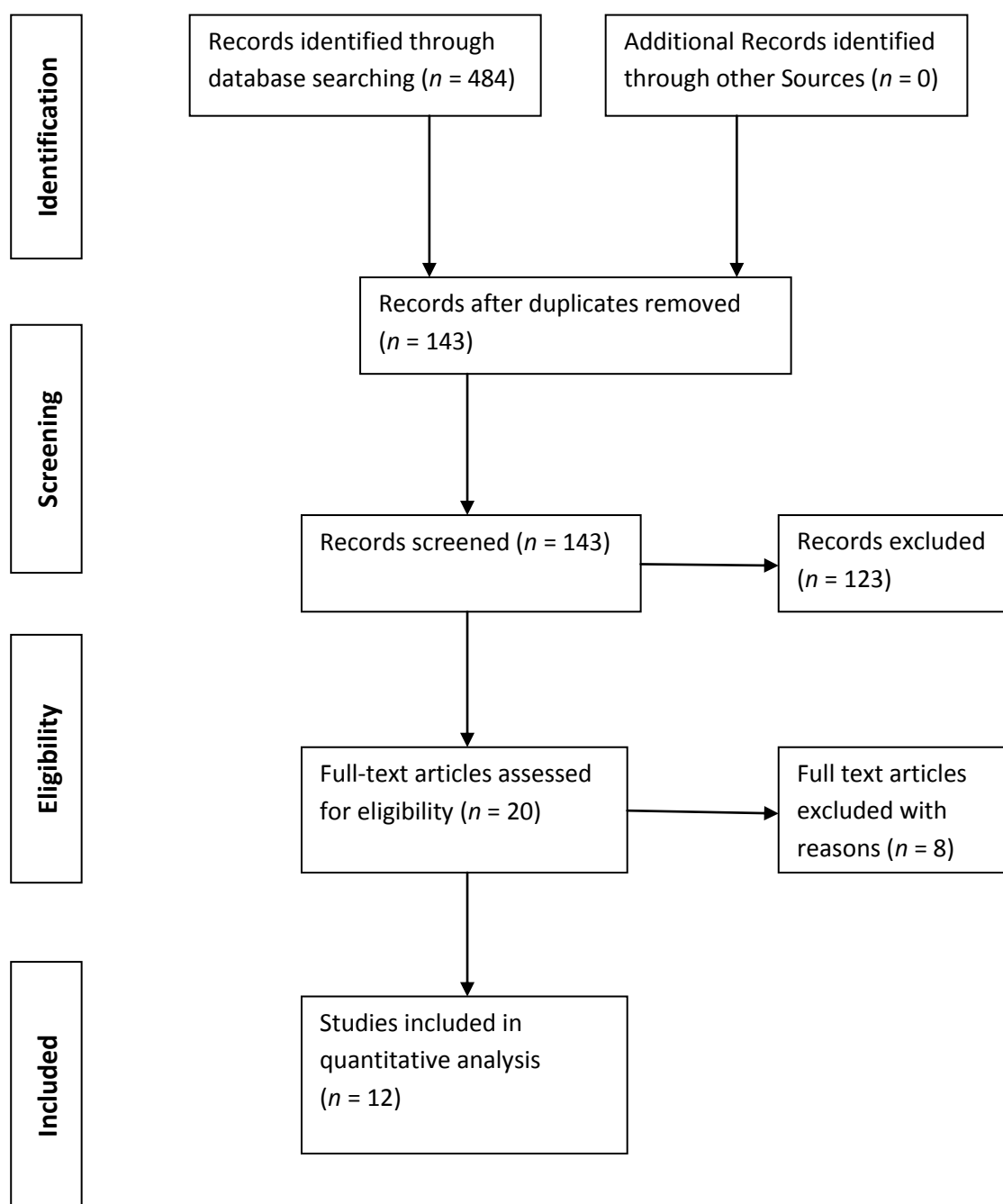
Exclusion Criteria

To ensure the clarity of the review a number of exclusion criteria were applied to the search results. Articles were excluded if they were not reported in English and if they were not empirical research e.g. book chapters or commentaries were excluded. If comorbidity occurred and the treatment focus was not on perfectionism, then these papers were excluded. If an empirical article reported treatment of perfectionism, but the primary presenting problem was not perfectionism e.g. eating disorder, this was excluded. Papers from age groups under the age of 18 years and non peer-reviewed journals were also excluded.

1.3.4 Systematic Review Search Results

Search terms were entered into the databases and initial search results produced 484 research papers and after duplicated articles were excluded, 143 articles remained. Reference lists of articles were searched to ascertain if any additional records could be identified through other sources, but none were discovered. The 143 article abstracts were then read to ascertain whether or not they met the inclusion criteria, 123 papers did not meet the criteria and were excluded, with 20 articles then remaining. Full articles were then scanned and exclusion criteria applied, with 12 studies included in the systematic review. This included; five RCTs, three group intervention studies, and four single case design studies. The PRISMA statement (Liberati et al., 2009) which details the reporting of systematic reviews was followed for displaying the search process (see Figure 1).

Figure 1: Prisma Flow Diagram Identifying the Search Process



1.3.5 Reviewing Papers

Upon completion of the search process, the relevant information was prepared for quality analysis. A summary of the reviewed papers is provided in Table 2.

1.3.6 Quality Checklist

To evaluate the identified papers a quality checklist was compiled to aid the analysis of the articles and to provide a quality checklist percentage mark for each paper.

The checklist incorporated a number of statements taken from a variety of quality checklists. Although there are a number of quality checklists available for use in systematic reviews, due to the range of methodologies used in the reviewed studies, it was felt a novel checklist would be beneficial. Items were used from Downs and Black's methodological quality checklist (Downs & Black, 1998), the Evidence Based Library and Information Practice (EBLIP) Critical Appraisal Checklist (Glynne, 2006.), the Cochrane Tool for Assessing Bias (Cochrane.org, n.d.) and NICE Quality Appraisal Checklist (NICE, 2012). One further item was also added by the research team after consultation (*'was the analysis carried out in such a way it answered the research question.'*).

The Agency for Healthcare Research and Quality (AHRQ, 2012) reported on use of quality checklists for systematic reviews. They reported that two reviews carried out (Deeks et al., 2003; West et al., 2002) recommended only a small number of checklists be used for systematic reviews, with both reviews recommending the Downs and Black tool. Downs and Black (1998)

conducted a feasibility study on the checklist and reported that it had high internal consistency, good test-retest and inter-rater reliability, although the external validity subscale showed poor reliability. With good reliability and validity reported, the authors concluded the checklist was appropriate for use with randomised and non-randomised studies.

As the systematic review included papers with a range of methodologies e.g. RCTs and case studies, relevant items were included to assess the quality of the studies and an appropriate scoring method compiled that would be congruent with all items.

After the process was complete, the quality checklist for the review included 33 items covering all research areas; including confounding variables and reporting of results (see appendix 4). All 12 papers were analysed across the quality checklist, which used a five point scale; yes (two points), partially (one point), and unclear, no or N.A. (non-applicable) all resulted in zero points. Papers were scored according to the number of assessed criteria and if a study had reduced criteria due to non-applicable items, the score was reduced accordingly (see appendix 5 for scoring breakdown). A higher percentage indicated greater quality, with scores ranging from 52% to 87% with a mean average of 73%.

1.4 RESULTS

Table 2: Table Displaying an Overview of Studies and Quality Analysis Results

Title of Paper	Author and Year	Type of Study	Participant/s	Method/Procedure	Results	Quality Analysis (%)
Web-based Cognitive-Behavioural Therapy for Perfectionism: A Randomized Controlled Trial	Arpin-Cribbie, Irvine & Ritvo (2012)	RCT	<ul style="list-style-type: none"> - Canadian post secondary students ($n = 77$, 70% - female) - Aged between 18 and 48, mean age = 21.14 	<ul style="list-style-type: none"> - Participants were randomly allocated to one of three web-based treatment conditions; no treatment (NT), general stress management (GSM) or CBT. 	<ul style="list-style-type: none"> - CBT was shown to effectively reduce perfectionism and there was a significant improvement compared with NT and GSM. - CBT participants; changes in perfectionism were significantly correlated with changes in depression and anxiety. 	82%
Perfectionism and Psychological Distress: A Modelling Approach to Understanding their Therapeutic Relationship	Arpin-Cribbie, Irvine, Ritvo, Cribbie, Flett, & Hewitt (2008)	RCT	<ul style="list-style-type: none"> - Canadian psychology undergraduates ($n = 83$, approx. 30% male) - Aged between 18 and 48, mean age = 21.14 	<ul style="list-style-type: none"> - Participants allocated across three conditions; No Treatment (NT), General Stress Management Intervention (GSMI), and GSMI/Cognitive Behavioural Intervention (GSMI/CBI). Web-based intervention lasted for 10 weeks. 	<ul style="list-style-type: none"> - Structural modelling showed GSMI/CBI participants improved significantly and showed greater perfectionistic behaviours and that the more therapeutic involvement the more improvement was shown. 	79%
Guided Self-help versus Pure Self-help for Perfectionism: A Randomised Controlled Trial	Pleva & Wade (2006)	RCT	<ul style="list-style-type: none"> - 49 (19 male, 30 female), Australian participants recruited via newspaper and local radio - Mean age = 43.93 	<ul style="list-style-type: none"> - Guided self-help (GSH) ($n = 24$) versus pure self-help (PSH) ($n = 25$) 	<ul style="list-style-type: none"> - GSH and PSH were shown to be effective in reducing perfectionism, but improvement in symptomology was greater for GSH. - Improvements maintained at three month follow-up. 	74%

Title of Paper	Author and Year	Type of Study	Participant/s	Method/Procedure	Results	Quality Analysis (%)
Evaluating a Web-based Cognitive Behavioural Therapy for Maladaptive Perfectionism in University Students	Radhu, Daskalakis, Arpin-Cribbie, Irvine, & Ritvo (2012)	RCT	<ul style="list-style-type: none"> - American undergraduate university students classed as maladaptive perfectionists (via a perfectionism screening measure) ($n = 47$, 34 females) - Mean age = 22.63 	<ul style="list-style-type: none"> - Students were randomly allocated to either a CBT treatment condition (12 weeks duration) or a wait-list condition. 	<ul style="list-style-type: none"> - CBT group participants when compared with wait-list controls showed a significant reduction in sensitivity to anxiety and negative automatic thoughts (NATs). - Changes in perfectionism for the CBT group were significantly correlated with positive difference in factors such as anxiety and NATs. 	85%
A Randomised Controlled Trial of Cognitive-Behavioural Therapy for Clinical Perfectionism: A Preliminary Study	Riley, Lee, Cooper, Fairburn, & Shafran (2007)	RCT	<ul style="list-style-type: none"> - English study ($n = 20$; 18 females and two males) recruited via clinicians or advertisement (type not stated) - Age of participants not reported 	<ul style="list-style-type: none"> - Participants allocated to immediate treatment (IT) ($n = 10$) or a waitlist (NL) ($n = 10$). Intervention entailed 10 sessions of CBT over a 10 week period. 	<ul style="list-style-type: none"> - 15/18 participants (two did not complete follow-up data) showed a clinically significant improvement with a large effect size (1.8). Improvements were maintained at 8 and 16 week follow-up. 	61%
Can Cognitive Restructuring Reduce the Disruption Associated with Perfectionistic Concerns?	DiBartolo, Frost, Dixon, & Almodovar (2001)	Group Comparison	<ul style="list-style-type: none"> - 60 American female undergraduate students, some with low or high concern over making mistakes - Mean age = 18.98 	<ul style="list-style-type: none"> - Two group x two condition method used. Looking at perfectionistic patterns regarding a speech task. Participants randomly allocated to either a cognitive restructuring (CR) or distraction group. 	<ul style="list-style-type: none"> - Participants receiving CR showed significantly lower 'horribleness rating' regarding their prediction over the speech and a significant improvement in their reported ability to cope with such a task, compared with prior to the task. 	56%

Title of Paper	Author and Year	Type of Study	Participant/s	Method/Procedure	Results	Quality Analysis (%)
Overcoming Negative Aspects of Perfectionism through Group Treatment	Kutlesa & Arthur (2008)	Group Treatment	<ul style="list-style-type: none"> - Canadian undergraduate and graduate students ($n = 90$; 75 women and 15 men). - Recruited through advertisement - Age not reported 	<ul style="list-style-type: none"> - Eight week group treatment intervention using a CBT and interpersonal approach. Participants allocated to treatment group ($n = 30$) or comparison groups; career group ($n = 30$) and psychology group ($n = 30$). 	<ul style="list-style-type: none"> - Participants who received the therapeutic intervention significantly reduced their levels of perfectionism, as well as anxiety and depression compared to comparison groups. 	71%
Psycho-Education and Group Cognitive-Behavioural Therapy for Clinical Perfectionism: A Case Series Evaluation	Steele, Waite, Egan, Finnigan, & Handley (2012)	Case Series	<ul style="list-style-type: none"> - Australian adults with reported high perfectionism scores ($n = 21$), recruited via advertisement at a local psychology clinic - 15 females and 6 males - Aged between 18-67, $m = 35.77$ 	<ul style="list-style-type: none"> - Clients participated in a CBT intervention, eight weeks in duration - Assessed on five occasions; baseline, waitlist, weeks after receiving materials, post treatment, and follow-up. 	<ul style="list-style-type: none"> - Self-help material did not yield any significant outcomes - CBT intervention showed significant reductions on measures e.g. perfectionism, self-criticism and produced large effect sizes. Results were maintained at the three-month follow-up period. 	82%
Cognitive Behavioural Treatment of Perfectionism: A Single Case Experimental Design Series	Egan & Hine (2008)	Single Case	<ul style="list-style-type: none"> - Four Australian adults (one male) recruited via a university psychology clinic - Aged 39-62, mean age = 55 	<ul style="list-style-type: none"> - AB design used; three week pre and post baseline phase used. - Intervention included eight treatment sessions and a follow-up two weeks later. 	<ul style="list-style-type: none"> - Visual inspection of the data revealed reduction in perfectionism for participants, with two clients experiencing a clinically significant reduction in perfectionism. 	87%

Title of Paper	Author and Year	Type of Study	Participant/s	Method/Procedure	Results	Quality Analysis (%)
Cognitive Behavioural Treatment of Perfectionism: Initial Evaluation Studies	Ferguson & Rodway (1994)	Single Case	- Adult referred by counselling agencies (<i>n</i> = 9) - Eight females and one male - Aged between 18 and 45, mean age = 31.4	- ABA design used, replicated for each of the nine clients. CBT intervention used.	- Participants showed a reduction in their levels of perfectionistic behaviours.	69%
A Preliminary Evaluation of Cognitive-Behaviour Therapy for Clinical Perfectionism: A Case Series	Glover, Brown, Fairburn, & Shafran (2007)	Single Case	- Patients recruited from an NHS adult psychology department (out-patients) (<i>n</i> = 9; 7 females, 2 males, ranging in age from 23 years to 45).	- CBT intervention delivered, using a multiple baseline design.	- Six out of nine patients showed a clinically significant reduction on two measures of perfectionism. - Three out of nine participants showed clinically significant reduction in clinical perfectionism. - All participants showed a statistically significant improvement on all three measures. Results maintained at follow-up.	80%
The Perfect Patient: Cognitive-behavioural Therapy for Perfectionism	Hirsch & Hayward (1998)	Case Study	- 40 year old male	- CBT intervention used.	- Reported reduced perfectionism. Post perfectionism scores not reported. Post depression and anxiety scores reduced significantly from pre-scores.	52%

1.4.1 Analysis of Reviewed Studies

1.4.1.1 Introduction

An overview of each reviewed study is provided in Table 2. This gives information about type of study, participants, methodology, main findings, and the quality assessment mark.

The systematic review analysed a wide range of studies with RCTs, group intervention studies, and single-case design studies. The review gives a broad overview of interventions for perfectionism, whether they are effective, and the quality of these studies. Interventions mainly used a CBT approach, with a range of formats including self-help (guided and pure), group, and individual CBT. Methods of delivery ranged from face-to-face work, to web-based interventions; using a variety of participants from university students, to clients from psychology waiting lists. A number of measures were used to provide outcome data for the studies including the Frost Multidimensional Perfectionism Scale (Frost et al., 1990).

1.4.1.2 Key Findings of Reviewed Studies

1.4.1.2.1 Randomised Control Trials

Five of the studies reviewed were RCTs, all using a CBT intervention. Treatment delivery varied from web-based to face-to-face, through to guided self-help.

Web-based Cognitive-Behavioural Therapy for Perfectionism: RCT

Arpin-Cribbie et al. (2012) reported the results of an RCT assessing the effectiveness of a web-based intervention in reducing perfectionism in students. Participants age ranged from 18-48 years, with a significant amount of females participating ($n = 70\%$). The participants involved were assigned to one of three different conditions using an appropriate randomisation method. Treatment options included; no treatment (NT), general stress management (GSM) and CBT, with duration of a 10 week treatment period. The study reported careful consideration of the use of outcome measures ensuring psychometrically robust measures were chosen and used more than one measure of perfectionism to ensure different components of perfectionism were included in analysis. All of the measures were reported to exceed .70 for internal consistency. Perfectionism, depressive mood, anxiety, and cognitive vulnerability were measured. Validity checks were also carried out by the researchers and treatment adherence measured.

Results showed participants exhibited higher levels on measures compared with norms. No significant differences were found regarding credibility and

expectancy between the two treatment options. For the CBT intervention, participants showed significant differences in pre and post test scores for all measures except for anxiety; GSM participants showed differences on four measures e.g. perfectionism cognitions inventory (PCI), with the NT group showing no significant changes in pre and post scores. However, only a small amount of clients showed clinically significant change e.g. 31% of clients showed this improvement on the PCI. With the problematic nature of measuring change, clinical significance (a client moving from clinical to sub clinical levels) is seen as being important (Jabonsen & Traux, 1991).

Limitations were also present, which the authors acknowledged. The length of time spent using the materials was not known and the CBT treatment was lengthier compared to the GSM, so all variables do not appear to have been controlled and may have impacted upon results. Also, the authors did not discuss why participants had dropped out and the reasons for this could be important as to why there were treatment implications. However, results show CBT treatment produced significantly better reductions in perfectionism compared to GSM and NT, so this is an encouraging option for the treatment of perfectionism.

Perfectionism and Psychological Distress: A Modelling Approach to Understanding their Therapeutic Relationship

Arpin-Cribbie et al. (2008) carried out a study assessing the effectiveness of a CBT web-based intervention for use with perfectionism. The study used three conditions; NT, GSM, and GSM plus CBT over a 10 week duration. The authors did report that participants not comfortable with the use of computers were excluded, so this highlights one difficulty with only offering

web-based interventions. The participants were distributed across three groups, but there is no report of randomisation, which may have impacted upon the results. As well as perfectionism being measured, other variables including anxiety and depression were recorded. Structural equation modelling (SEM) was used to enable the analysis of numerous hypotheses simultaneously. Pre and post tests scores were analysed using paired samples *t*-test, which showed GSM-CBT participants showing significant reductions on all variables, apart from anxiety. GSM participants showed change on three scales e.g. PCI, with no significant changes recorded for NT participants. SEM indicated that the more therapeutic input given, the more likelihood that levels of perfectionism will decrease, again highlighting the importance of therapeutic influence. However, anxiety scores were still above normal at post-test and the authors stress the need for interventions to include anxiety related techniques as anxiety and more specifically fear of failure are important processes involved in the maintenance of perfectionism (Flett et al., 2002).

Guided Self-help versus Pure Self-help for Perfectionism: RCT

Pleva and Wade (2006) carried out an RCT, assessing the effectiveness of a CBT approach for perfectionism. The treatment modality used guided self-help (GSH) versus pure self-help (PSH), with all participants receiving the same self-help materials. It was hypothesised that GSH would be more effective in symptom reduction. There was no wait-list control in the study; however use of WL participants can be seen as problematic (Deville & McFarlane, 2009). Again as in the previous study, there were a greater number of female participants (males, *n* = 19; females *n* = 30). However,

sample size was smaller than needed as a power calculation indicated a sample of 56 was required. The study results found that PSH participants received telephone calls at weeks three and six, which could be argued was a form of guidance as GSH can be telephone based (IAPT, 2010). Although some basic participant characteristics were reported, further information was not reported e.g. occupation status, and previous mental health history.

The study utilised intention to treat analysis (ITT), which includes data for all participants, including non-compliance (Gupta, 2011). Although seen as being an important element of analysis, ITT reportedly has flaws as researchers cannot presume reasons for non-adherence would be the same in a clinical trial as it would be in a real clinical setting (Moncur & Larmer, 2009). This study was able to provide data on time spent reading self-help books as well as carrying out exercises/tasks, with GSH participants spending significantly more time compared to PSH participants. Results showed reductions for perfectionism for both groups and reductions in depressive and obsessive-compulsive symptoms; with improvements being maintained at three-month follow-up. However, authors reported that 20% of PSH participants experienced a clinically significant increase in depressive symptoms during treatment, which was maintained at three month follow-up. The authors suggest that the face-to-face contact with therapy may have been the reason for higher engagement in the intervention and why GSH was more effective overall; with more participants achieving clinically significant changes e.g. for perfectionism, more than half of the participants for GSH achieved this. Benefits of the study include discussion of adverse treatment reactions and the reason why this may have occurred, as well as

treatment implications for clinicians to consider. For example, it was hypothesised that increases in depressive symptomology for 20% of the PSH group may have been due to self-learning, which led to the increase and without clinician assistance were unable to challenge/change these symptoms.

However, the researchers were unable to completely control blinding in participant treatment allocation, which they acknowledge may have contributed towards initial improvements for GSH participants and drop out in the PSH group. They also reported some PSH participants fell behind with their material during telephone conversations, which may have contributed to changes in motivation. However, the authors did conclude that GSH was seen as more effective, but reports of PSH being effective for reduction of perfectionism should be treated with caution.

Evaluating a Web-based Cognitive-Behavioural Therapy for Maladaptive Perfectionism in University Students

Radhu et al. (2012) screened 992 undergraduate students for maladaptive perfectionism. Forty-seven students took part in the study and were randomly assigned to one of two conditions; CBT intervention and waitlist control group, completing pre and post measures. The study assessed the effectiveness of web-based CBT in reducing levels of maladaptive perfectionism and other variables such as anxiety and depression. Psychometrically robust measures such as Multidimensional Perfectionism Scale (MPT), Almost Perfect Scale (APS), Automatic Thoughts Questionnaire (ATQ) and Anxiety Sensitivity Index (ASI) were used for outcome data. Demographic data was clearly displayed via table format and

apart from sex (>70% female in both conditions), there was a wide variation in ethnicity and educational status, but the majority of participants were single. The demographic data was the most comprehensive of the reviewed studies and provided useful information regarding risk factors for maladaptive perfectionism. The results showed significant improvements for participants on aspects of the ATQ, the ASI, and four of the perfectionism measures e.g. MPT. Waitlist participants showed a significant decrease in scores for the parental expectations subscale from the MPS, but there were significant differences between waitlist and CBT groups, for example, ASI scores decreased significantly more in CBT group.

The study provides good evidence for the treatment of maladaptive perfectionism and further builds upon evidence for web-based approaches. With a quality analysis mark of 85% in the review (see table 2), it is a robust study. However, there remain some limitations. The study originally had 248 people who met inclusion criteria, but only 56 consented (nine participants decided not to take part), but no explanation was given for this, resulting in a small sample size and poor attrition rate. The reasons for this are not discussed and this could be crucial information for the future use of this intervention. As in previous studies the sample is heavily female populated and included a very young sample (aged between 21-23). The study did not take into account the amount of time spent using the intervention material and this is an important treatment variable to consider. The study did not use a comparison group and so the authors were not able to control all variables. Although the authors did acknowledge some of these limitations,

they did not elaborate on other possible avenues of future research, which would have been beneficial.

RCT of CBT for Clinical Perfectionism: A Preliminary Study

Riley et al. (2007) assessed the effectiveness of CBT for clinical perfectionism, with 20 participants randomly allocated to immediate treatment (IT) or waitlist (WL), with 10 sessions of CBT. Participants were again predominantly female (18 females and 2 males). WL participants received the intervention after eight weeks (treatment duration). Valid and reliable measures including the MPS were used for outcome data. No significant differences were found for the two groups regarding MPS scores. However, for other measures such as the clinical perfectionism examination (CPE), which assesses severity of clinical perfectionism, the changes were significantly greater in the IT group compared with the WL group. Large effect sizes, $d = 2.05$ were reported for the IT group for CPE, but small for the WL group; $d = 0.27$ (Cohen, 1998). Seventy-five percent of participants showed a clinically significant change maintained at follow-up (8 and 16 weeks), with a large effect size reported ($d = 1.8$).

Although the study provided evidence that CBT was an effective treatment option for adults experiencing clinical perfectionism, there were study flaws. The majority of participants were female and the sample size was small. Also, a comparison group was not used, which may impact upon the internal validity of the study.

1.4.1.2.2 Group Intervention Studies

A number of group intervention studies were also evaluated, which the review presents. The studies evaluated the effectiveness of psychological intervention for perfectionism. They all used a CBT approach and used Canadian, American, and Australian populations with face-to-face delivery. These studies are discussed below.

Can Cognitive Restructuring Reduce Disruption Associated with Perfectionistic Concerns?

DiBartolo et al. (2001) were interested in whether cognitive restructuring was an effective intervention for perfectionism. An initial pool of 138 female psychology students completed a subscale of the MPS, namely concern over mistakes (CM). Participants with low CM (LCM) and high CM (HCM) scores were asked to take part in the study using a 2 x 2 group design. Participants were asked to complete a public speaking task. Prior to the task participants answered questions regarding task performance, including 'how well do you expect to perform on this task?' Lower expectancy was reported by HCM participants compared to LCM. Levels of anxiety, and positive and negative affect were also assessed, with measures reported as having good psychometric properties. Subjective units of distress scale (SUDS) levels were significantly higher in the HCM group.

Participants received either a cognitive restructuring intervention or distraction task prior to giving their speech. SUDS rating were taken on regular occasions including during the speech task. Students were given course credits or entered into a draw for \$50, but it was not stated which

occurred or whether a choice was given. Nor was it clear of how participants were randomised into one of the two groups.

The results showed a significant condition effect; with students receiving cognitive restructuring, reporting themselves as significantly less anxious than the distraction group students.

Although the research study showed some possible benefits for people with perfectionism through the use of cognitive restructuring, there were a number of flaws, which resulted in the study receiving the second lowest quality analysis mark (56%). Firstly, the choice of sample could be viewed as being biased and is not explained. Participants were all female and it is not well explained why only a women's college was approached. Secondly, the college students were from a private institution and this may be a variable in the amount of perfectionism displayed and task performance. Thirdly, the offer of course credits or a cash prize may have impacted upon not only participation, but how students self-reported. These are confounding variables which do not appear to be accounted for and may have impacted upon the results. Also as previously stated, the randomisation methods were not explained and clarity of this is important regarding the overall quality of the research. Finally, the length of the intervention was eight minutes, given that some treatment options last for up to 10 weeks (e.g. an hour of therapy per week), this is an extremely short example of a possible treatment option. The only facet of perfectionism assessed was concern over mistakes and participants were only exposed to one possible area of difficulty (public speaking); the study focus was therefore narrow and lacked depth.

Psycho-education and Group Cognitive-behavioural Therapy for Clinical Perfectionism: A Case-Series Evaluation

This study (Steele et al., 2012), investigated the effectiveness of psychoeducation and group CBT. Participants ($n = 21$) were assessed on a number of different data points, including; i) baseline ii) after a four week WL period and prior to psychoeducation iii) after psychoeducation and prior to CBT intervention iv) at the end of the CBT intervention v) three month follow-up, using a variety of measures including the CPQ, which they reported as having good validity and reliability. Although the study had 28 eligible participants, seven withdrew due to various reasons, including; feeling suicidal, though some did not give a reason. Of the 21 participants; 13 were taking psychotropic medication, with eight receiving psychotherapy and one receiving electroconvulsive therapy as well as psychotherapy, and five receiving psychotherapy alone. This was reported to be occurring during the WL period, but no detail is given as to whether other treatments extended over this period.

The results showed main effects from baseline to post-treatment for perfectionism and other measures e.g. self-criticism with a large effect size ($d = 1.46$). The effect size changes for this period were also reported as being large ($>.92$). The results at follow-up were reported to have been maintained with large effect sizes once again reported. However, only 21% of participants showed a clinically significant improvement.

Although this was a well conducted study in a number of respects and therefore received a high percentage mark for study quality (82%), the confounding variables were not adequately controlled for. Firstly, the

majority of participants were receiving some form of intervention; either medication, psychotherapy, or both. The benefits that resulted may have been due to these interventions, rather than the group intervention. Secondly, this conclusion is strengthened by the lack of a comparison group. Although some useful information has been gained regarding the use of group CBT for perfectionism, the findings are ambiguous and future studies need to be more rigorously controlled.

1.4.1.2.3 Single-Case Studies

There has also been a number of single-case experimental design studies carried out evaluating the effectiveness of perfectionism in adults. The review analysed four papers, with number of participants ranging from one to nine, using designs such as AB or ABA.

Cognitive Behavioural Treatment of Perfectionism: A Single-Case Experimental Case Design

Egan & Hine (2008) carried out an American based study, which investigated the effectiveness of individual CBT for four clients taken from a psychology WL, using an AB single-case experimental design. With a three-week baseline and post period, clients of a mean age of 55 were seen weekly over eight sessions. The study used an older age group than many other studies in the review and did not use students, which many others did. Perfectionism and anxiety were measured, using the MPS to measure perfectionism.

The results showed there were reductions in the levels of perfectionism for three out of four clients who all showed clinically significant reductions,

although one client did not maintain this at follow-up. 'Concern over mistakes' moved to the recovered stage for two participants with the use of the reliable change index. This study received the highest quality mark in the review (87%) and provided useful information for perfectionism treatment approaches. The authors reported that as well as being a stand-alone treatment, the treatment of perfectionism for axis 1 disorders may be beneficial as perfectionism could be an underlying factor in many disorders, supported as part of a transdiagnostic process (Bieling, Summerfeldt, Israeli, & Antony, 2003).

Cognitive Behavioural Treatment of Perfectionism: Initial Evaluation Studies

The earliest study in the review (Ferguson, & Rodway, 1994) used a single-case ABA design. The authors reported on the use of a CBT treatment for perfectionism with nine clients referred by counselling services.

Visual analysis was carried out on the data (baseline, intervention, and post-data collected), which showed reductions for the majority of clients on all measures; indicating CBT is a beneficial intervention for clients with perfectionism. The authors also reported themes that emerged from the data, including high levels of self-criticism and procrastination being present in individuals with perfectionism. Although receiving a quality mark of 69% for the study, this was lower than a number of the other studies reviewed. A clearer description of the intervention would have been useful to try to ascertain the specific parts of perfectionism targeted and how this was treated. A further criticism of the study was the lack of statistical analysis used. Although visual analysis is a useful tool in single case design; with the

use of statistical analysis, the quantifiable information can be compared with other study results (Brossart, Parker, Olson, & Mahadevan, 2006). The visual analysis only provided a small number of data points and not weekly data points and this may have been useful to record session by session change

A Preliminary Evaluation of Cognitive-Behaviour Therapy for Clinical Perfectionism: A Case Series.

A UK based study by Glover et al. (2007) assessed the effectiveness of a 10 session CBT intervention for nine clients with clinical perfectionism, which employed a multiple baseline design. Participants included seven females and two males, with a mean age of 33 years. The CBT intervention was based on CBT analysis from Shafran et al. (2002).

There was a range of analyses reported. On the perfectionism subscale of the DAS, five patients showed a clinically significant improvement between pre and post phases, with four maintaining this at follow-up. On one subscale of the MPS, socially orientated perfectionism (SOP), five patients showed clinically significant improvement from pre-post phase and these changes were maintained at follow-up. However, the authors did report that clients with initial high scores tended not to have a reduction in perfectionism and they suggested that for these clients a longer-term intervention (e.g. a schema-focused intervention) may be more appropriate, important for clinicians to consider. The authors concluded that this CBT treatment has shown benefits in reducing perfectionism, but if other axis 1 difficulties exist, that this approach could be used alongside other treatment approaches,

particularly if clinical perfectionism is something which could hinder change; supported by other research e.g. Blatt et al. (1998).

Although the study has limitations, the authors clearly stated these. For example, being a case series there was no opportunity for a control group. They also discussed that as per the intervention strategy they were using formulation that was compiled during the baseline stage. Formulation is viewed as important and can help to offer a deeper understanding for the client (Johnstone & Dallos, 2006). The compilation therefore may have had therapeutic benefits and brought about initial changes, so could be viewed as an extraneous variable. Lastly, although the majority of the measures used had sound psychometric properties, one measure had not yet been validated (Clinical Perfectionism Questionnaire); so caution regarding the properties of this measure should be taken into account. More detailed suggestions for future research would also have been beneficial, but with further useful case studies providing clinicians, information about perfectionism treatment, the study did receive a high percentage mark (80%).

The Perfect Patient: Cognitive Behavioural Therapy for Perfectionism

Hirsch and Hayward (1998) described the case of a 40 year old male who engaged in a CBT intervention for perfectionism. The treatment emphasis focused on perfectionistic beliefs e.g. 'If I don't perform at 100% people will think I am defective.' Although the article clearly states the type of treatment received, reporting of the outcome measures was poor. Although they briefly reported pre and post anxiety and depression scores, only pre perfectionism

scale scores were reported. No statistical analysis was reported and with clearer design, analysis and reporting needed, this received a lower quality mark (52%). It may be that the case was not specifically designed as a single-case experimental design study and was reported just for clinical purposes, but any such ambiguity could perhaps have been reported. Although the authors report decreases in perfectionism; as this is not reported effectively, it is difficult to draw upon conclusions and this may only be viewed as anecdotal evidence.

1.4.1.3 Other Study Characteristics

1.4.1.3.1 *Study Participants (Type, Sex, Recruitment, and Age)*

It is worth taking some time to consider the type of participants used in the studies and whether this represents the populations accurately. It is important to highlight that a number of the studies in the review used students, often psychology students e.g. Arpin-Cribble et al. (2008) (see Table 2 for types of participants). Researchers at one American University have recently discussed the aspect of American undergraduate psychology students dominating research studies, terming them *WEIRD outliers* (westernised, educated people from industrialised rich democracies) (Henrich, Hine, & Noranzayan, 2010). The authors stated that 68% of leading psychology journals reviewed were from the US and 67% of these used psychology undergraduate students. They concluded that due to this, studies were not very representative.

Some students and other participants were recruited using advertisements e.g. Pleva & Wade (2006), a less than representative sampling technique.

The studies are markedly drawn towards the use of female participants, with one study using a 100% female sample (DiBartolo et al., 2001). Does this suggest there is a sex imbalance for people who exhibit perfectionism or is it because females are more likely to respond to advertisements for such studies? Future research needs to think of ways to recruit a sample which is more representative of the population to gain a broader and more accurate data set.

Although some studies have a wider spread of age groups e.g. Steele et al. (2012), with an age range of 18-67 ($m = 35.77$), many other studies show little variation in age range and use a much younger age group. For example, one study (Radhu et al., 2012) had a mean age of 22.63 and another study (DiBartolo et al., 2001) had an even lower mean average age of 18.98. Again if such a young age group is used in studies, which tends to be university based participants; this could be viewed as showing perfectionistic characteristics and an ability to change in one small group, rather than being able to generalise findings to a wider population. This is something clinicians need to consider when choosing an appropriate intervention for clients with maladaptive perfectionism. Finally, a number of studies used small sample sizes and future studies need to consider larger sample sizes. Overall, a number of the studies showed population bias in the study samples.

1.4.1.4 *Quality of Analysis*

There were a variety of analyses carried out in the reviewed studies due to differing methodologies. The RCT studies used a range of appropriate

statistical tests throughout their analysis e.g. ANCOVA used in the Arpin-Cribbie et al. (2012) study, to ensure thoroughly analysed data and a presentation of results which are useful for clinicians and clients. Other studies (e.g. DiBartolo et al., 2001) used robust statistical methods to ensure appropriate analyses were carried out and the study also controlled for type 1 errors.

Single-case experimental design studies in the review relied upon visual analysis and did not supplement this with appropriate statistical analysis, which may have made the evidence of successful perfectionism treatment more effective.

1.5 DISCUSSION

1.5.1 Summary of Key Findings

The reviewed studies were valuable in the evaluation of psychological treatments for perfectionism in adults. RCTs have shown that face-to-face interventions using a CBT approach are effective in reducing levels of perfectionism and also other associated variables, such as anxiety and depression e.g. Riley et al. (2007). As well as the effectiveness of face-to-face interventions in the treatment of perfectionism, studies have also shown that web-based interventions can be beneficial in reducing levels of perfectionism e.g. Arpen-Cribbie et al. (2012). Pure self-help (e.g. Pleva & Wade, 2006) has also proved to be beneficial in helping to reduce unhelpful perfectionistic behaviours. Although many studies have been able to show a significant change in levels of perfectionism and other levels e.g. anxiety,

only a small number of clients demonstrated clinically significant change which was maintained at follow-up.

Although single-case experimental design research may be viewed as being not as robust and an inability to control confounding variables, a number of these studies have been reported in the literature (e.g. Egan & Hine, 2008). These studies have further supported the use of CBT approaches with clients exhibiting maladaptive perfectionism.

1.5.2 Methodological Concerns of Reviewed Studies

Although a number of the studies reviewed were good quality studies, there were however some methodological concerns that are important to highlight. The participant groups were often quite narrow showing population bias, so generalising the findings is problematic.

The lack of comparison groups was also a difficulty (e.g. Riley et al., 2007) in concluding that the changes found were due to the intervention used. Also, a number of studies were single-case design and without statistical analysis did not provide robust enough evidence. These pooled together with RCT studies form an emerging evidence base for interventions for perfectionism, although further developments are needed.

1.5.3 Limitations of the Review

Although the review is a vital tool for clinicians working in mental health, which highlights relevant perfectionism intervention research with adults, there are some limitations regarding the review. Firstly, all of the studies reviewed were from westernised nations; England, America, Canada, and

Australia. As discussed earlier, a number of the studies used students and these are seen as WEIRD outliers (Henrich et al., 2010). As the reviewed studies were from westernised nations, sometimes using students, this could be viewed as a limitation. The reason why other studies were not included was due to exclusion criteria. For example, non-English language papers were excluded and non-peer reviewed journal papers. Although the exclusion criteria demonstrated a sound rationale, relevant papers may have been excluded.

A further limitation of the review is that it was only able to provide reviews of study interventions, in a field predominantly CBT based. The search strategy only produced mainly CBT based studies, with few other approaches used; for example, general stress management. With evaluation of only one main approach, findings of the systematic review could be viewed as limited with few other interventions included. Further evaluation of other interventions would be useful for the field of perfectionism.

1.5.4 Clinical Practice and Future Research

It is important for practitioners working clinically to know which interventions are effective in treating perfectionism. As prevalence is high (Rhadu et al., 2012), it is vital that clinicians are aware of the quality of the empirical research available and what demonstrates effectiveness. As well as managing perfectionism when presented as a single issue, comorbidity frequently occurs (Shafran et al., 2002). Awareness that perfectionism can be a treatment barrier is an important consideration for clinicians and accounting for this may improve therapeutic progress.

Although limitations of reviewed studies have been highlighted, there is a range of evidence showing CBT can be a useful intervention for treating perfectionism. Not only have studies evaluated face-to-face therapeutic treatments, but web-based and guided self-help have also shown to be effective treatments for perfectionism. The range of interventions and type of studies e.g. RCT, single-case design; strengthen the field due to the variety of evidence provided. What needs to be clearer are the longer term benefits. Some studies carried out three or six months follow-up, but 12, 18 and 24 month follow-ups would be beneficial to try to establish if benefits are maintained in the long-term. Also, clearer information about comorbidities and how best to treat this would be beneficial, to avoid any ambiguity for practitioners.

Future research needs to continue to evaluate treatments for perfectionism, with RCT studies ensuring they use comparison groups to control for confounding variables. Larger samples need to be used with more balanced sex, age, and ethnicity representation. Additional demographic information regarding ethnicity and education/occupation status may be beneficial. Regarding aetiology, it would also be useful for quantitative and qualitative studies looking at parental style as a measurable variable to analyse alongside measures of perfectionism and other associated variables such as anxiety and depression.

A clearer definition of perfectionism and the sub-types, with a more uniformed approach may be beneficial for the research and treatment of perfectionism.

1.5.5 Conclusion

According to Shafran and Mansell (2001), prior to 1994 there was no empirical research published detailing the evaluation of treatments for maladaptive perfectionism in adults. The prevalence of perfectionism both as a primary problem and also as a comorbidity is reported to be increasing (Shafran et al., 2002) and is a difficulty, which can impede therapeutic progress for other primary problems, such as depression (e.g. Blatt et al., 1998). However, since 1994 there have been a variety of peer reviewed studies which have been published. A strength of the research field is the variety of empirical research available; from RCTs to single-case designs. A limitation is that virtually all of the research uses CBT interventions, alongside other general approaches e.g. stress management and are heavily populated with young female participants. To provide a richer and more valued evidence base, more robust research and clinical trials should be carried out using other approaches which may theoretically and anecdotally support such research. Use of a more representative population would also be beneficial. Further research focusing on perfectionism as a treatment for other conditions, such as eating disorders, as it may impede treatment (e.g. Shafran et al., 2002) may help to clarify the role of perfectionism. Finally, more early educational interventions for parents and teachers would be beneficial to help break the possible causes and maintaining mechanisms of this debilitating difficulty.

1.6 REFERENCES

*References proceeded with * are papers analysed in the systematic review.*

Agency for Healthcare Research and Quality (AHRQ). (2012). Assessing the Risk of Bias of Individual Studies in Systematic Reviews of Health Care Interventions. *In Methods Guide for Effectiveness and Comparative Effectiveness Reviews*. Retrieved November 15th 2013 from <http://effectivehealthcare.ahrq.gov/index.cfm/search-for-guides-reviews-and-reports/?productid=998&pageaction=displayproduct>

Alden, L. E., Bieling, P. J., & Wallace, S. T. (1994). Perfectionism in an interpersonal context: A self-regulation analysis of dysphoria and social anxiety. *Cognitive Therapy and Research*, 18, 297-316.

Argus, G., & Thompson, M. (2008). Perceived social problem solving, perfectionism, and mindful awareness in clinical depression: an exploratory study. *Cognitive Therapy and Research*, 32, 745-757.

*Arpin-Cribbie, C., Irvine, J., & Ritvo, P. (2012). Web based cognitive-behavioural therapy for perfectionism: a randomized controlled trial. *Psychotherapy Research*, 22 (2), 194-207.

*Arpin-Cribbie, C. A., Irvine, J., & Ritvo, P., Cribbie, R. A., Flett, G. L., & Hewitt, P. L. (2008). Perfectionism and Psychological Distress: A Modelling Approach to Understanding their Therapeutic Relationship. *Journal of Rational-Emotive and Cognitive-Behavior Therapy*, 26, 151-167.

Barrow, J. C., & Moore, C. A. (1983). Group interventions with perfectionist thinking. *Personnel and Guidance Journal*, 61, 612– 615.

Bieling, P. J., Summerfeldt, L. J., Israeli, A. L., & Antony, M. M. (2004). Perfectionism as an explanatory construct in comorbidity of axis 1 disorders. *Journal of Psychopathology and Behavioral Assessment*, 26, 193-201.

Blatt, S. J., & Zuroff, D. C. (2002). Perfectionism in the Therapeutic Process. In G. L. Flett & P. L. Hewitt (Eds.), *Perfectionism: Theory, Research, and Treatment* (pp. 393-406). Washington, DC: American Psychological Association Press.

Blatt, S. J., Zuroff, D. C., Bondi, C. M., Sainslow, C. A., & Pilonis, P. A. (1998). When and how Perfectionism impedes the brief treatment of depression. The National Institute of Mental Health Treatment of Depression Collaborative Research Program Revisited. *Journal of Consulting and Clinical Psychology*, 88, 388-397.

Brossart, D., Parker, R., Olson, E., & Mahadevan, L. (2006). The Relationship between Visual Analysis and Five Statistical Analyses in a Simple AB Single-Case Research Design. *Behavior Modification*, 30 (5), 531-563.

Brown, E. J., Heinberg, R. G., Frost, R. O., Makris, G. S., Huster, H. R., & Leung, A. W. (1999). Relationship of perfectionism to affect, expectations, attributions and performance in the classroom. *Journal of Social and Clinical Psychology*, 18, (1), 98-120.

Burns, D. D. (1980). The Perfectionist's script for self-defeat. *Psychology Today*, 14 (6), 34-52.

Cochrane.org. (n.d.). *Cochrane Collaboration's Tool for Assessing Risk of Bias*. Retrieved November 15th 2013 from <http://ohg.cochrane.org/sites/ohg.cochrane.org/files/uploads/Risk%20of%20bias%20assessment%20tool.pdf>

Cohen, J. (1998). *Statistical Power Analysis for the Behavioural Sciences*. New Jersey: Erlbaum.

Deeks, J. J., Dinnes, J., D'Amico, R., Sowden, A. J., Sakarovich, C., Song, F., Petticrew, M., & Altman, D. G. (2003). Evaluating Non-randomized Intervention Studies. *Health Technology Assessment*, 7 (27), 1-173.

Deville, G. J., & McFarlane, A. C. (2009). When waitlists are not feasible, nothing is a thing that does not need not be done. *Journal of Consulting and Clinical Psychology*, 77, (6), 1159-1168.

*DiBartolo, P. M, Frost. R. O., Dixon, A., & Almodovar, S. (2001). Can Cognitive Restructuring Reduce the Disruption Associated with Perfectionistic Concerns? *Behavior Therapy*, 32, 167-184.

Downs, S. H., & Black, N. (1998). The feasibility of creating a checklist for the assessment of the methodological quality both of randomised and non-randomised studies of health care interventions. *Journal of Epidemiology and Community Health*, 52, 377-384.

*Egan, S. J., & Hine, P. (2008). Cognitive Behavioural Treatment of Perfectionism: A Single Case Experimental Design Series. *Behaviour Change*, 25 (4), 245-258.

Egan, S. J., Wade, T. D., & Shafran, R. (2011). Perfectionism as a transdiagnostic process: A clinical review. *Clinical Psychology Review*, 31, 203-212

*Ferguson, K. L., & Rodway, M. R. (1994). Cognitive-behavioural treatment of perfectionism: initial evaluation studies. *Research on Social Work Practice*, 4, 283-308.

Flett, G. L., & Hewitt, P. L. (2002). Perfectionism and maladjustment: an overview of theoretical, definitional and treatment issues. In G. L. Flett, & P. L. Hewitt (Eds.), *Perfectionism: Theory, Research and Treatment* (pp. 5-31). Washington, DC: American Psychological Association.

Flett, G. L., Hewitt, P. L., Blankstein, K. R., & Mosher, S. W. (1991). Perfectionism, self-actualization, and personal adjustment. *Journal of Social Behavior and Personality*, 6, 147-160.

Frost, R. O., Heinberg, R. G., Holt, C. S., Mattia, J. I., & Neubauer, A. L. (1993). A comparison of two measures of perfectionism. *Personality and Individual Differences*, 14, 119-126.

Frost, R. O., Lahart, C., & Rosenblate, R. (1991). The development of perfectionism: A study of daughters and their parents. *Cognitive Therapy and Research*, 15, 469– 489.

Frost, R. O., Marten, P., Lahart, C., & Rosenblate, R. (1990). The dimensions of perfectionism. *Cognitive Therapy and Research*, 14, 449-468.

Frost, R. O., & Steketee, G. (1997). Perfectionism in obsessive-compulsive disorder patients. *Behaviour Research and Therapy*, 74, 449-468.

*Glover, D. S., Brown, G. P, Fairburn, C., & Shafran, R. (2007). A preliminary evaluation of cognitive-behaviour therapy for clinical perfectionism: A case series. *British Journal of Clinical Psychology*, 46, 85-94.

Glynn, L. (2006). *EBLIP Critical Appraisal Checklist*. Retrieved November 15th 2013 from

http://www.goums.ac.ir/files/deputy_research/informing_52bc8/critical_appraisal_checklist.pdf

Gupta, S. K. (2011). Intention-To-Treat Concept: A Review. *Perspectives in Clinical Research*, 2 (3), 109-112.

Hamachek, D. E. (1978). Psychodynamics of normal and neurotic perfectionism. *Psychology: A Journal of Human Behavior*, 15 (1), 17-33.

Henrich, J., Heine, S. J., & Norenzayan, A. (2010). The weirdest people in the world? *Behavioral and Brain Sciences*, 33 (2-3), 61-83.

Hewitt, P. L., & Flett, G. L. (1991). Perfectionism in the self and social contexts: conceptualizations, assessments, and associations with psychopathology. *Journal of Personality and Social Psychology*, 60, 456-470.

*Hirsch, C. R., & Hayward, P. (1998). The Perfect Patient: Cognitive Behavioural Therapy for Perfectionism. *Behavioural and Cognitive Psychotherapy*, 26, 359-364.

Improving Access to Psychological Therapies (IAPT). (2010). *Good practice guidance on the use of self-help materials within IAPT services*. Retrieved May 7th 2014 from

<http://www.iapt.nhs.uk/silo/files/good-practice-guidance-on-the-use-of-selfhelp-materials-within-iapt-services.pdf>

Jacobson, N., & Traux, P. (1991). Clinical Significance: A Statistical Approach to Defining Meaningful Change in Psychotherapy Research. *Journal of Consulting and Clinical Psychology*, 59 (1), 12-19.

Johnstone, L., & Dallos, R. (2006). Introduction to Formulation. In L. Johnstone & R. Dallos (Eds.), *Formulation in Psychology and Psychotherapy: Making Sense of People's Problems* (pp. 1-16). London: Routledge.

*Kutlesa, N., & Arthur, N. (2008). Overcoming Negative Aspects of Perfectionism through Group Treatment. *Journal of Rational-Emotive and Cognitive-Behavior Therapy*, 26, 134-150.

Liberati, A., Altman, D. G., Tetzlaff, J., Mulrow, C., Gotzsche, P. C., Loannidis, J. P., Clarke, M., Devereaux, P. J., Kliejnen, J., & Moher, D. (2009). The PRISMA statement for reporting systematic 58 reviews and meta-analyses of studies that evaluate health care interventions: Explanation and elaboration. *Journal of Clinical Epidemiology*, 61 (10), 1-34.

Moncur, R. A., & Larmer, J. C. (2009). Clinical Applicability of Intention to Treat Analyses. *Evidence Based Medicine*, 6 (1), 39-41.

NICE. (2012). Appendix F: Quality Appraisal Checklist – quantitative Intervention Studies. *In Process and Methods Guides: Methods for the Development of NICE Public Health Guidance (third Edition)*. Retrieved November 15th 2013 from <http://publications.nice.org.uk/methods-for-the-development-of-nice-public-health-guidance-third-edition-pmg4/appendix-f-quality-appraisal-checklist-quantitative-intervention-studies>

Pacht, A. R. (1984). Reflections on Perfection. *American Psychologist*, 39, 386-390.

*Pleva, J., & Wade, T. (2006). Guided self-help versus pure self-help for perfectionism: a randomised controlled trial. *Behaviour Research and Therapy*, 45, 849-861.

Preusser, K. J., Rice, K. G., & Ashby, J. S. (1994). The role of self-esteem in mediating the perfectionism-depression connection. *Journal of College Student Development*, 35, 88-93.

*Radhu, N., Daskalakis, Z. J., Arpin-Cribbie, C. A., Irvine, J., & Ritvo, P. (2012). Evaluating a Web-based Cognitive Behavioural Therapy for Maladaptive Perfectionism in University Students. *Journal of American College Health*, 60 (5), 357-366.

Rice, K. G., Ashby, J. S., & Preusser, K. J. (1996). Perfectionism, Relationships with Parents, and Self-Esteem. *Individual Psychology*, 52 (3), 246-260.

Rice, K. G., Ashby, J. S., & Slaney, R. B. (1998). Self-esteem as a mediator between perfectionism and depression: A structural equations analysis. *Journal of Counseling Psychology*, 45, 304-314.

*Riley, C., Lee, M., Cooper, Z., Fairburn, C. G., & Shafran, R. (2007). A randomised controlled trial of cognitive-behaviour therapy for clinical perfectionism: A preliminary study. *Behaviour Research and Therapy*, 45 (9), 2221-2231.

Riley, C., & Shafran, R. (2005). Clinical Perfectionism: A Preliminary Qualitative analysis. *Behavioural and Cognitive Psychotherapy*, 33, 369-374.

Rodger's, C. R. (1959). A theory of therapy, personality, and interpersonal relationships, as developed in the client-centred framework. In S. Koch. (Eds.), *Psychology: A Study of Science* (pp. 184-256). New York: McGraw-Hill.

Shafran, R., Cooper, Z., & Fairburn, C. G. (2002). Clinical perfectionism: a cognitive-behavioural analysis. *Behaviour Research and Therapy*, 40 (7), 773-791.

Shafran, R., & Mansell, W. (2001). Perfectionism and Psychopathology: A Review of Research and Treatment. *Clinical Psychology Review*, 21 (6), 879-906.

Slaney, R. B., Rice, K. G., Mobley, M., Trippi, J., & Ashby, J. S. (2001). The revised Almost Perfect Scale. *Measurement and Evaluation in Counseling and Development*, 34, 130-145.

Sorotzkin, B. (1985). The Quest for Perfection: Avoiding Guilt or Shame? *Psychotherapy*, 22 (2), 564-570.

*Steele, A. L., Waite, S., Egan, S. J., Finnigan, J., & Handley, A. (2012). Psycho-Education and Group Cognitive-Behavioural Therapy for Clinical Perfectionism: A Case Series Evaluation. *Behavioural and Cognitive Psychotherapy*, 41, 129-143.

Stober, J. (1998). The Frost Multidimensional Perfectionism Scale: More perfect with four (instead of six) dimensions. *Personality and Individual Differences*, 24 (4), 481-491.

Vandiver, B., & Worrell, F. (2002). The reliability and validity of the Almost Perfect Scale-Revised with academically talented middle school students. *Journal of Secondary Gifted Education*, 13, 108-119.

West, S., King, V., Carey, T. S., Lohr, K. N., McKoy, N., Sutton, S. F., & Lux, L. (2002). Systems to Rate the Strength of Scientific Evidence: Summary. *Evidence Report/Technology Assessment*, 47, 1-11.

Chapter 2 – Empirical Paper

THE RELATIONSHIP BETWEEN MULTIDIMENSIONAL PERFECTIONISM, SELF ESTEEM, SELF-CRITICISM, AND MOOD IN PRIMARY SCHOOL CHILDREN

Chapter Word Count: 8,000 (excluding title page, figures, tables, and reference list)

Prepared for Submission to: Journal of Child Psychology and Psychiatry
(see Appendix 2 for Author Guidelines)

2.0 ABSTRACT

Perfectionism in children can be adaptive and has been linked to academic achievement and high self-esteem (Stoeber & Childs, 2012). However, maladaptive perfectionism with features such as sensitivity to mistakes can have a number of distressing psychological implications such as depression and anxiety (Hewitt et al., 2002) and has demonstrated links with eating disorders (Fairburn, Cooper, & Shafran, 2003). With such health concerns regarding perfectionism, researchers have argued for further research into understanding the processes involved in perfectionism in children (Flett & Hewitt, 2012). The present study investigated the relationship between perfectionism, self-esteem, self-criticism, and mood in 9-11 year old children. Ninety children from four schools in Coventry and Warwickshire participated in the study. Self-report measures of variables were completed. Multiple regression analysis and the Sobel z test were used, with mediation models used to demonstrate the relationship between variables. Results showed a significant relationship between self-esteem and mood. Significant mediating relationships were found between sensitivity to mistakes and mood, mediated by self-esteem and self-criticism. Significant mediating relationships were found between contingent self-esteem and mood, mediated by self-esteem and self-criticism. Girls showed higher levels of perfectionism, and self-criticism, lower levels of self-esteem, and higher levels of negative affect compared with boys, but these differences were not significant. Theoretical and clinical implications of the processes involved in perfectionism and the need for future preventative measures are discussed.

Keywords: perfectionism, self-esteem, self-criticism, mood, children,

2.1 INTRODUCTION

2.1.1 Multidimensional Perfectionism

Research carried out investigating perfectionism has shown associations with adverse psychological difficulties in adults (Gnilka, Ashby, & Noble, 2012). These difficulties include depression, anxiety, and suicide (Flett & Hewitt, 2002) and perfectionism has links with eating disorders (Brouwers & Wiggum, 1993). Flett and Hewitt (2002) describe perfectionists as striving for flawlessness, setting excessively high standards for themselves and when self-evaluating their performance, being highly critical. Early research reported perfectionism as being negative and linked to psychological ill-health; thus perfectionism being labelled as one-dimensional (Stoeber & Otto, 2006).

However, carrying on from the work of Hamachek (1978), research has suggested that there are two types of perfectionism; adaptive and maladaptive (Rice & Ashby, 2007). Adaptive perfectionism has been described as a person striving for excellence, but enjoying success and not fearing failure or worrying about mistakes (Davis & Wosinski, 2012). This type of perfectionism is viewed as being healthy and has shown positive associations with self-esteem (Ashby & Rice, 2002). Maladaptive perfectionism may be displayed through intolerance to mistakes, fear of failure, and a decrease in productivity (Davis & Wosinski, 2012). Research has demonstrated this type of perfectionism in adults is linked to low self-esteem and a range of psychological difficulties (Bieling, Israeli, Smith, & Antony, 2003).

2.1.2 Origins and Development of Perfectionism

It has been argued the development of perfectionism stems from parents who offer love and praise for exceptional performance, but exhibit disappointment when this level is not achieved (e.g. Burns, 1980; Missildine, 1963). Research studies have indicated a harsh over-critical parental style is linked to perfectionism developing in children (e.g. Frost, Lahart, & Rosenblate, 1991). The study with undergraduate female students assessed levels of perfectionism and demanding parental style. Results showed associations between harsh parenting, and students' levels of perfectionism and higher symptoms of psychopathology. Furthermore, there was a correlation between parental perfectionism (for mothers) and child perfectionism and that sex of parent was an important variable in the development of perfectionism. In a study of 232 American students, research reported authoritarian parental style was related to maladaptive perfectionism, but not adaptive perfectionism (Kawamura, Frost, & Harmatz, 2002).

2.1.3 Processes Involved in Perfectionism

Sorotzkin (1985) stated that when perfectionists do not achieve goals, distress can be caused and highlighted self-criticism and self-esteem as key factors in perfectionism. Research carried out with college students by Rice, Ashby, and Slaney (1998) showed links between multidimensional perfectionism, self-esteem, and depression. Their study of 464 college students, produced path models, which showed maladaptive perfectionism was associated with low self-esteem and depression. However, results

showed adaptive perfectionism was not associated with depression. Further research with adults has shown support for the mediational role that self-esteem plays between perfectionism and depression (e.g. Flett, Hewitt, Blankstein, & O'Brien, 1991; Preusser, Rice, & Ashby, 1994). Results showed adaptive perfectionism was positively associated with self-esteem and maladaptive perfectionism was associated with low self-esteem and depression. A further investigation using structural equation modelling was carried out with 262 undergraduate students (180 females and 82 males) (Ashby & Rice, 2002). The study investigated the relationship between perfectionism and self-esteem, using the Almost Perfect Scale and Dysfunctional Attitudes Scale. Results showed maladaptive perfectionism was negatively associated with self-esteem. Aspects of the measures, such as discrepancy concerns and self-criticism related to performance, were found to be significant predictors of low self-esteem. Adaptive perfectionism was reported to be positively associated with self-esteem and there was a significant positive relationship found between high standards and self-esteem. The authors state their findings are consistent with previous research that shows maladaptive perfectionists exhibit lower levels of self-esteem. Research has demonstrated that low self-esteem occurs in perfectionism due to desired goals not being obtained. Such perfectionism can lead to persistent habits of expecting perfection from self and others and result in depression and worthlessness (Melrose, 2011).

As well as research indicating self-esteem is a mediating factor between perfectionism and mood in adults, self-criticism has also shown to be an important underlying process in perfectionism. It has been argued that self-

criticism is linked with self-orientated perfectionism due to over stringent self-evaluation (Hewitt & Flett, 2001) and perfectionism is believed to be associated with self-criticism (Blatt & Zuroff, 2002). This relationship is linked with depression because people exhibiting perfectionism can experience depression due to levels of self-criticism caused by shame and guilt (Blatt, 1995). Correlations have also been found between perfectionism and self-criticism (Blaney & Kutcher, 1991; Hewitt & Flett, 1990). A longitudinal study of a 12 year old with high levels of self-criticism indicated this can lead to psychological difficulties later in adulthood; including difficulties with personal and social adjustment and that origins can begin with early experiences with parents/guardians (Zuroff, Koestner, & Power, 1994). Qualitative research (Riley & Shafran, 2005) has highlighted a number of maintaining mechanisms, such as self-critical reaction to failure. Indeed treatment of perfectionism can focus on dealing with self-criticism, which has led to effective results using a cognitive behaviour therapy (CBT) approach to target such self-critical thoughts and behaviours (e.g. Ferguson & Rodway, 1994).

2.1.4 Perfectionism in Adolescence and Adulthood

As previously discussed, perfectionism in adults has indicated a relationship with mood, mediated by factors such as self-esteem. As well as having links with depression, studies have reported that perfectionism has links with eating disorders (e.g. Fairburn et al., 2003), so this characteristic can have a profound impact. Eating disorders such as bulimia nervosa (BN) have been shown to have links with higher levels of perfectionism compared with controls (Lilenfield, Wonderlich, Riso, Crosby, & Mitchell, 2006). To establish

if perfectionism is a feature of eating disorders, intervention research was carried out to see if treatment of perfectionism helped reduce symptoms of bulimia. An RCT with 48 participants in one of three groups; guided self-help (GSH) for perfectionism, GSH for BN or placebo showed that at post-intervention phase and follow-up, both treatment groups showed decreased BN symptomatology. To help deter the development and maintenance of such debilitating conditions, further information about perfectionism may be beneficial.

Although there is a vast wealth of research regarding perfectionism in adults, there is less evidence available for children and adolescents (O'Connor, Rasmussen, & Hawton, 2010). Research with adolescents, has shown perfectionistic concerns (worrying about mistakes) is associated with stress, depression and lack of confidence in school; whereas perfectionistic strivings (striving for high standards) is associated with higher motivation and confidence, higher school grades and healthier psychological wellbeing (Stoeber & Childs, 2012). Further research with adolescents has indicated that setting of high standards is linked to high levels of motivation and self-esteem (Dixon, Lapsley, & Hanchon, 2004). Maladaptive perfectionism and stress have been linked to depression and anxiety (O'Connor et al., 2010) and a perfectionistic thinking style linked to psychological maladjustment (Flett et al., 2012).

Dimensions of perfectionism, such as sensitivity to mistakes have been shown to correlate with psychological difficulties in adulthood (Frost, Heinberg, Holt, Mattia, & Neubauer, 1993). Other aspects such as

contingent self-esteem can be viewed as a positive aspect of perfectionism in children (Rice, Kabul, & Preusser, 2004).

Use of the Adaptive/Maladaptive Perfectionism Scale (AMPS) with adolescents was carried out by Rice, Leever, Noggle, and Laspsely (2007). Adolescents from an American middle school ($n = 145$, 12-14 years old), participated in the study. AMPS subscales were analysed against depression measure scores. For girls, sensitivity to mistakes and compulsiveness were significantly associated with depressive symptoms ($\beta = -.36$, $p = .004$). Analysis showed sensitivity to mistakes as a maladaptive element of perfectionism, but compulsiveness as adaptive due to lower levels of depressive symptoms linked to higher compulsiveness and this was similar for boys. The authors reported that lower levels of need for admiration was seen to be maladaptive, but only in the instance when girls scored lower on the compulsiveness subscale and boys with higher levels of sensitivity to mistakes.

2.1.5 Perfectionism in Children

Regarding child perfectionism research, Rice and Preusser (2002) argued that a more comprehensive understanding of perfectionism in children was needed and that this could contribute to preventative educational measures being provided. They argued this could lead to adaptive perfectionism being encouraged and help being given for maladaptive aspects of perfectionism, which supports the need for further empirical research in this area. However, as stated earlier, the vast body of perfectionism research has been carried out with adults, with little available evidence on perfectionism and adverse

psychological factors in children. The study of perfectionism and children in non-clinical populations is relatively new and more research needs to be carried out (Hewitt et al., 2002). Hewitt et al. (2002) carried out a study with children investigating the relationship between perfectionism and depression, anxiety, and anger; 114 children (45 boys and 69 girls), aged 10-15 years participated in the study. Measures included the Child and Adolescent Perfectionism Scale (Flett, Hewitt, Boucher, Davidson, & Munro, 2001). Results showed, self-orientated perfectionism (SOP) (a person must be perfect, setting unrealistic goals) was significantly associated with depression and anxiety. Socially prescribed perfectionism (SPP) (exhibiting perfectionistic behaviours as a person thinks others expect it) was significantly correlated with depression and anxiety, stress, and anger. The authors concluded that perfectionism and associated variables may contribute to psychological distress in children. With research indicating perfectionism and depression is mediated by self-esteem in adults (e.g. Rice et al., 1998) and with perfectionism significantly correlated with depression in children (Hewitt et al., 2002), mood seems an important variable to consider when carrying out perfectionism research with children.

Research has also focused on the relationship between perfectionism and self-concept. A study carried out with 284 Egyptian children ($m = 12$ years), showed perfectionism was significantly correlated with self-concept (Tofaha & Ramon, 2010). Further research with non-clinical populations has been conducted with gifted children. LoCicero and Ashby (2000) studied American children ($m = 13$ years). Results showed gifted children displayed higher levels of perfectionism than non-gifted children, but did not experience

any psychological impairment. Much of the non-clinical child perfectionism research has been conducted with children from non-UK populations, which further supports the rationale for more empirical research.

Perfectionism research conducted with Australian children (aged 10-12) reported the role that cognitive errors play in maladaptive perfectionism (Davis & Wosinski, 2012). Cognitive errors, such as catastrophising and overgeneralization were found to be a significant predictor for maladaptive perfectionism in children. These findings demonstrate the role cognition plays in child perfectionism and that this should be addressed during treatment. Further research has examined the role of cognitive appraisal. DiBartolo and Varner (2012) investigated how maladaptive evaluative concerns versus positive achievement striving are linked to goal setting, cognitive appraisal, and anxiety in 157 American school children ($m = 9.74$ years). Children completed a task under one of three goal setting conditions. Results showed children with high levels of SPP exhibited higher levels of anxiety compared to children low in SPP.

As research demonstrates that perfectionism has links with anxiety and depression, a study was carried out investigating whether an educational intervention would decrease symptoms of anxiety and depression (Nobel, Manassis, & Wilansky-Tryanor, 2012). Children ($n = 78$) at risk for depression and/or anxiety participated in an RCT and took part in a CBT or activity group. Pre and post perfectionism, anxiety, and depression measures were recorded. Both groups showed significant reductions in all three measures. Furthermore, supplementary analyses suggested that perfectionism can interrupt treatment progress and researchers have argued

that perfectionism can halt treatment progress (Egan, Wade, & Shafran, 2011).

Gender differences have also been highlighted in child perfectionism research. Validating a multidimensional perfectionism scale with 9-11 year old children (Rice et al., 2004), results suggested perfectionism may be more harmful for girls than boys and cited research which reports girls are at greater risk for eating disorders (Leon, Fulkerson, Perry, & Early-Zald, 1995), with links between eating disorders and perfectionism highlighted (McVey, Pepler, Davis, Flett, & Abdolell, 2002). O'Connor, Dixon, and Rasmussen, (2009) found boys set higher standards than girls and that gender differences warrant further investigation. O'Connor (2007) stated that perfectionism research should analyse gender differences. However, although gender differences have been highlighted, the evidence is limited at present.

Even though the aetiology of perfectionism has links with childhood the reason why much of the perfectionism research has been carried out with adolescents and adults, rather than children, may be due to the lack of standardised scales for this age group (Rice et al., 2007). To address this, the Adaptive/Maladaptive Perfectionism Scale (AMPS) (Rice & Preusser, 2002) was produced so research in child perfectionism could be more widely conducted.

The AMPS (Rice & Preusser, 2002) consists of four dimensions of perfectionism; sensitivity to mistakes, contingent self-esteem, compulsiveness, and need for admiration. The authors reported that there

are adaptive and maladaptive items present in the measure. *Sensitivity to mistakes* measures negative feelings related to making mistakes e.g. 'when I make a mistake I feel so bad, I want to hide' and is seen as a key dimension of perfectionism in children. *Contingent self-esteem* measures positive emotions resulting from task evaluation e.g. 'once I do well at something I am pleased.' *Compulsiveness* measures order over completing tasks e.g. 'I take a long time to do something because I check it many times'. Compulsiveness was moderately correlated with sensitivity to mistakes and need for admiration, which the authors suggests may mean children are trying hard not to make mistakes and seek positive responses from other people. The final dimension, *need for admiration* measures the need for approval e.g. 'I want to be perfect so others will like me.' If parents do not provide admiration, healthy self-image may not develop and a grandiose sense of self and perfectionism may develop (Rice & Preusser, 2002).

With the majority of research indicating that maladaptive perfectionism leads to mental health difficulties in adolescents and adults, it is important to increase understanding of the risk factors in children (Davis & Wosinski, 2012). Indeed recent research, (Flett & Hewitt, 2012, p.54) stated:

'Unfortunately, when it comes to understanding the nature of perfectionism in young people, we have more questions than answers at present.'

The authors added that psychological difficulties in children were becoming more prevalent with depression in adolescents quoted as being between 4%-24% and that given the role perfectionism plays in psychological distress,

more understanding was needed. Regarding perfectionism research in children they concluded (Flett & Hewitt, 2012, p.54):

'Clearly, more research is needed on the developmental foundations of perfectionism and the causes, correlates, and consequences of perfectionism. New information can then be incorporated into treatment and prevention programs.'

This further adds to the rationale for the empirical investigation as further information could be beneficial. The proposed empirical study will aim to enhance the understanding of perfectionism in children and provide further information about the risk factors for perfectionism in this under researched age range. It is hoped a better understanding of the process and mechanisms involved in perfectionism in this age group will increase awareness and lead to more preventative measures so debilitating difficulties such as depression, anxiety, and eating disorders do not develop or are managed more effectively. Due to this, further child research is important and it is hoped the empirical study will add to the research base.

2.2 AIMS, RESEARCH QUESTION, AND HYPOTHESES

Building on findings from research within adult and adolescent populations, the empirical research will investigate the relationship between multidimensional perfectionism, self-esteem, self-criticism, and mood in primary school children (9-11 years of age). The study is interested in establishing the processes, mechanisms and relationships present in perfectionism. The study will hopefully help further understanding in the field and lead to preventative educational and clinical interventions for children.

Research Question

What is the relationship between multidimensional perfectionism, self-esteem, self-criticism, and mood in 9-11 year old children?

Hypotheses

1. Self-esteem will mediate the relationship between perfectionism and mood
2. Self-criticism will mediate the relationship between perfectionism and mood
3. Self-esteem will mediate the relationship between each separate perfectionism dimension (sensitivity to mistakes, contingent self-esteem, compulsiveness, and need for admiration) and mood.
4. Self-criticism will mediate the relationship between each separate perfectionism dimension (sensitivity to mistakes, contingent self-esteem, compulsiveness, and need for admiration) and mood.

2.3 **METHOD**

2.3.1 Design

The study used a correlational analytic survey design. The self-reported variables tested were perfectionism, self-esteem, self-criticism, and mood.

2.3.2 Participants

A non-clinical population was used in the study, with opportunity sampling utilised. Participants were primary school children, aged between 9-11 years ($m = 9.76$, $SD = 0.7$). The rationale for the age range was due to the lack of perfectionism research carried out with children, as more knowledge is required about the processes involved in this age group.

Schools in the Coventry and Warwickshire area were approached for participants. It was calculated that 90 children would be required for the study. This was calculated based on the recommendations of Kline (2005) for path analysis models. The author suggests that ideally a parameter ratio of 20:1 should be used, but that a ratio of 10:1 would be sufficient. There were nine parameters for the second and third proposed mediation models, which equalled 90 participants using the 10:1 ratio.

Four schools gave permission to participate, with 102 returned parental consent forms across the four schools. Twelve children did not consent; 90 children gave consent and participated in the study.

Participants consisted of 34 boys (37.8%) and 56 girls (62.2%), with ages 9 ($n = 35$), 10 ($n = 41$) and 11 ($n = 14$) taking part in the study. Mean age of participants = 9.76, $SD = 0.7$.

2.3.3 Materials

The following measures were used in the study:

2.3.3.1 *Adaptive/Maladaptive Perfectionism Scale (AMPS) – Rice & Preusser (2002)*

This 27 item scale, measures both adaptive and maladaptive features of perfectionism in children (see appendix 11). The scale has four subscales; sensitivity to mistakes, contingent self-esteem, compulsiveness, and need for admiration. Children read statements e.g. 'I am fearful of making mistakes' and circle an answer most appropriate to them. The measure uses a four point Likert scale, ranging from 'really unlike me' to 'really like me'. The scale was developed with samples of children, aged 9-12 years in America. The authors reported the scale to have adequate reliability. Item-total correlations showed sensitivity to mistakes ranged from .57 - .78 ($\alpha = .91$), contingent self-esteem ranged from .53 - .72 ($\alpha = .86$), compulsiveness .66 - .72 ($\alpha = .87$) and need for admiration item total correlation ranging from .67 - .71. ($\alpha = .85$). Research has shown that the measure has good external criterion validity (Rice et al., 2004). More recently, research supported the validity of the AMPS, but that further research on validity across different samples is needed (Davis & Wosinski, 2012).

2.3.3.2 *Rosenberg Self-Esteem Scale (RSES) (Rosenberg, 1989)*

This is a global measure of self-esteem for children and a widely used measure in clinical and non-clinical settings (Winters, Myers, & Proud, 2002) (see appendix 12). The scale has 10 items, for example 'I feel I have a number of good qualities' and children have to choose a response most true for them. The measure uses a four point Likert scale, ranging from 'strongly disagree' to 'strongly agree'. Developed with high school students, this measure has shown good reliability and validity; test retest correlations in a number of samples are strong, ranging from .82 - .88, with Cronbach's alpha in samples ranging from .77 - .88 (Blascovich & Tomaka, 1993; Rosenberg, 1986).

It should be noted that on one of the items some of the language was changed to ensure children fully understood the items presented to them. Item 7 was amended after consultation with the research team. Originally worded: *'I feel that I am a person of worth at least on an equal plane with others'*, it was changed to *'I feel that I am equally as worthwhile as others.'* Although this was given careful consideration, it should be highlighted this could have impacted upon validity.

2.3.3.3 *Self-Rating Scale (SRS) (Hooley, Ho, Slater, & Lockshin, 2002)*

This is an eight item scale measuring self-criticism in children (see appendix 13). A Likert scale (from 0-7) is used to determine the extent to which a child agrees or disagrees with each statement. Statements include 'sometimes I feel completely worthless' and 'others are justified in criticising me'. The measure is reported as having an alpha reliability of .73 (Hooley, Ho, Slater,

& Lockshin, 2010). Good internal consistency reliability has been shown ($\alpha = .88$) for this measure in a study carried out with 12-19 year old children (Glassman, Weierich, Hooley, Deliberto, & Nock, 2007).

As with the RSES, certain items on the SRS were amended, with small changes in language to ensure items were fully understood by participating children. After consultation with the research team, four items were amended; items 1, 3, 4, and 8. For example, item 4 was originally worded '*I often feel inferior to others*', changed to '*I often feel as though I am not as good as other people*.' As with the RSES, it is important to consider any possible impact upon validity with the change of wording.

2.3.3.4 Short Mood and Feelings Questionnaire (SMFQ) (Angold, Costello, & Messer, 1995)

This 13 item scale measures levels of recent mood (how a child has felt over the past two weeks) in children and was developed with 8-16 year old children (see appendix 14). The measure uses a three point Likert scale (true, sometimes, or not true), with children using this scale to respond to statements such as 'I felt lonely'. It has been reported as a useful scale in helping to measure depressive symptoms in children (Angold et al., 1995). Further studies with young children (7-11 years of age) have investigated the psychometric properties of the measure. Results showed good internal construct validity and showed its scaling properties for depression (Sharp, Goodyer, & Croudace, 2006).

2.3.4 Procedure

Ethical approval for the empirical research was granted by Coventry University (see appendix 6). Letters were sent to all primary school across Coventry and Warwickshire (see appendix 7). Four schools agreed to be participating schools in the research study. Parents of children aged 9-11 years of age were sent study information/consent letters (see appendix 8). From the four primary schools, 102 parental consent forms were returned. A total of 90 children gave consent to participate in the study, with 12 deciding not to participate.

Children took part in the study during the school day at a specific classroom located within each school. Children were seen in groups of approximately 10-15. Information about the study was provided visually via a participant information sheet (PIS) (see appendix 9) for children to read. Each child had a copy of this and this was also presented on a large interactive whiteboard. The study information was then explained verbally to ensure understanding. Each measure was presented on a whiteboard and children had a copy of each measure in their pupil information pack. The four measures were presented to participants in 24 different orders to avoid order effect. It was carefully explained how to complete each measure if children were to participate. Children had the opportunity to ask questions if they wanted to. Consent was clearly explained and children were informed they did not have to take part in the study and could return to class at any stage with their data withdrawn and destroyed. Children were also told that they had up to four weeks to have their data withdrawn from the study and participant code was

explained (children took home a copy of the PIS with participant code recorded).

Participating children completed a child consent form (see appendix 10). Children then completed the four measures with the principal investigator present at all times during data completion. Upon completion of measures, children were debriefed (see appendix 15), which was read and verbally explained. This was to ensure children felt comfortable and to establish what support avenues were available, which included the opportunity to speak to the principal investigator.

2.4 RESULTS

2.4.1 Data Analysis

Data was inputted into the computer statistical package SPSS. Data analysis was then completed. Multiple regression analysis was carried out and a Sobel z test (Baron & Kenny, 1986) used to determine if there were any significant mediating effects between the variables. Analysis was used to determine if the hypotheses were met; to ascertain if self-esteem and self-criticism were mediating the relationship between perfectionism and mood, and between the four perfectionism dimensions and mood. Mediation models are presented to display the relationships between the variables. Standardised beta coefficients, *t*-values and associated *p*-values are reported. Ad hoc analysis on sex differences was carried out and correlations between variables calculated.

2.4.2 Analysis of Sex Differences

Mediation models were compiled for participants as a whole and not for boys and girls separately. However, it was important to establish whether there were any significant differences between boys and girls for perfectionism scores and other variables. Data was inputted using SPSS and an independent samples *t*-test was conducted. Table 1 below reports the analysis carried out.

Table 1: Sex Differences with Perfectionism, Perfectionism Dimensions, Self-Esteem, Self-Criticism, and Mood

Variable	Sex	Mean	<i>SD</i>	<i>t</i>	<i>p</i>
Perfectionism	Male	67.71	14.13	0.773	.442
	Female	69.13	10.22		
Sensitivity to Mistakes	Male	17.59	4.44	1.724	.088
	Female	19.52	5.53		
Contingent Self-esteem	Male	25.18	4.53	0.157	.875
	Female	25.04	3.85		
Compulsiveness	Male	15.09	3.24	0.873	.385
	Female	15.70	3.18		
Need for Admiration	Male	9.85	3.17	1.479	.143
	Female	8.88	2.96		
Self-esteem	Male	21.44	4.22	1.513	.134
	Female	19.80	5.38		
Self-criticism	Male	23.38	14.13	0.795	.429
	Female	25.43	10.22		
Mood	Male	5.68	4.50	1.097	.276
	Female	6.91	8.14		

As can be viewed in table 1, the mean average for boys reports they have higher self-esteem and lower levels of self-criticism compared to girls and the majority of the maladaptive aspects of perfectionism are also higher in girls, apart from need for admiration. Higher levels of negative affect on the mood measure were also present for girls. However, there were no significant

differences between boys and girls scores on the characteristics measured and analysed. Further, separate correlations between variables for boys and girls indicated there were no significant differences in either the strength or relationship between variables. Although perfectionism has links to eating disorders and prevalence of eating disorders is higher amongst girls, as previous research reports (e.g. Leon et al., 1995), the study offers no evidence of significant differences for perfectionism between boys and girls. Due to the non-significance of the results and lack of strength or relationship between variables, this supports the use of one mediation model, rather than separate models for boys and girls.

2.4.3 Correlations between Variables

Table 2: Correlation Matrix detailing Correlations between Dimensions of Perfectionism and other Variables

<u>VARIABLE</u>		Sensitivity to mistakes	Contingent Self-esteem	Compulsiveness	Need for Admiration	Self-esteem	Self-Criticism
Contingent Self-esteem	<i>r</i>	-.315					
	<i>p</i>	.002					
Compulsiveness	<i>r</i>	.099	.284				
	<i>p</i>	.353	.007				
Need for Admiration	<i>r</i>	.008	.161	.300			
	<i>p</i>	.944	.129	.004			
Self-esteem	<i>r</i>	-.598	.497	.065	.135		
	<i>p</i>	<.001	<.001	.541	.204		
Self-criticism	<i>r</i>	.381	-.428	-.038	-.161	-.700	
	<i>p</i>	<.001	<.001	.723	.129	<.001	
Mood	<i>r</i>	.551	-.334	-.084	.008	-.789	.623
	<i>p</i>	<.001	.001	.433	.944	<.001	<.001

As can be viewed in table 2 there are some significant correlations between perfectionism subscales. Sensitivity to mistakes and contingent self-esteem showed a significant negative correlation, showing a weak correlation, ($r = .315$, $p = .002$). There were also weak positive correlations between compulsiveness and contingent self-esteem ($r = .284$, $p = .007$), and compulsiveness and need for admiration ($r = .300$, $p = .004$). The correlations indicate the perfectionism dimensions are related and are

measuring key facets of perfectionism. There were also significant correlations between other variables. There was a strong negative correlation between self-criticism and self-esteem ($r = -.700, p = < .001$) and a moderate negative correlation between sensitivity to mistakes and self-esteem ($r = -.598, p = < .001$), highlighting the strength of the relationship between these characteristics. There were further positive correlations between other variables, for example, there was a significant moderate correlation between sensitivity to mistakes and mood ($r = .551, p = < .001$), and also between mood and self-criticism ($r = .623, p = < .001$). The strongest significant positive correlation was between mood and need for admiration ($r = .944, p = .008$) further highlighting the linear relationship between the tested variables.

2.4.4 Preliminary Data Screening

Given that much of the data analyses involved in mediation analysis is based on multiple regression analysis, the data was screened to determine whether they satisfied the assumptions for this type of analysis. Cook's D indicated that there were no multivariate outliers. A histogram of residuals indicated that the distribution was normal. A scatterplot was viewed to check for: i) independence of residuals, ii) no heteroscedasticity, and iii) linearity of relationship between the predictor and predicted variables; all three of these assumptions were satisfied. Finally, variance inflation factor values indicated that multicollinearity was not excessive.

Three mediation models were computed. The first model looked at the mediating effects of both self-esteem and self-criticism on the relationship

between perfectionism and mood. This model is presented in figure 1 below and standardised beta coefficients, *t*-test values and associated *p*-values are presented in table 3.

2.4.5 Perfectionism and Mood, Mediated by Self-Esteem and Self-Criticism

Figure 1: Mediation Model 1 - Perfectionism and Mood, Mediated by Self-Esteem, and Self-Criticism

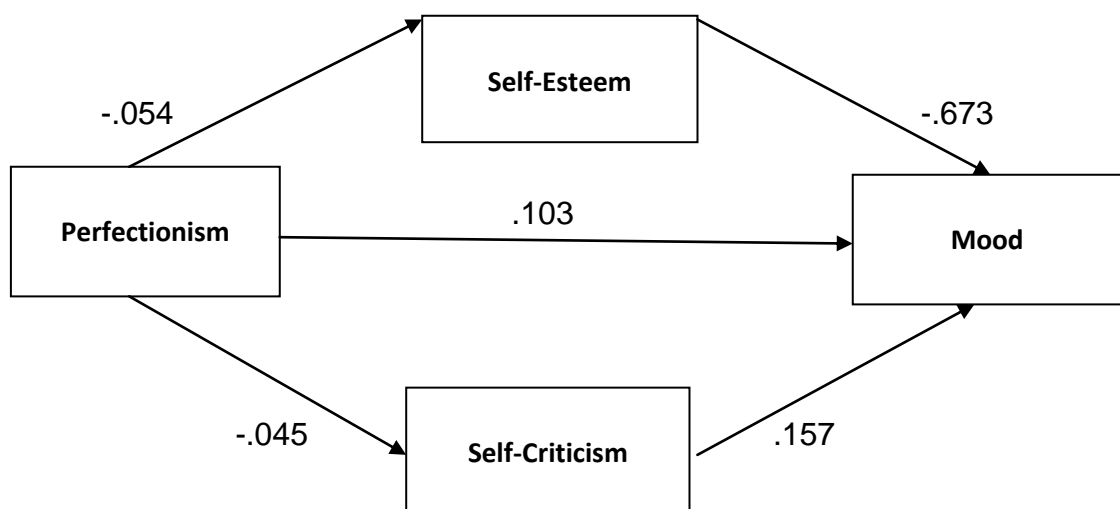


Table 3: Standardised beta coefficients, *t*-values and associated *p*-values for the Relationship between Variables in Mediation Model 1

	β	<i>t</i>	<i>p</i>
Perfectionism → Self-esteem	-.054	0.51	.614
Perfectionism → Self-criticism	-.045	0.42	.673
Perfectionism → Mood	.103	1.59	.116
Self-esteem → Mood	-.673	7.41	< .001
Self-criticism → Mood	.157	1.73	.088

As can be seen in table 3, the only significant relationship in the model presented in figure 1 is between self-esteem and mood. However, self-esteem did not significantly mediate the relationship between perfectionism and mood: $z = 0.50$, $p = .62$ (two tailed). This hypothesis was not supported, and there was also no mediating effect of self-criticism on the relationship between perfectionism and mood, which also failed to reach significance: $z = 0.36$, $p = .72$ (two tailed); so again the hypothesis was not supported.

2.4.6 Dimensions of Perfectionism and Mood, Mediated by Self-Esteem

Figure 2: Mediation Model 2 - Dimensions of Perfectionism and Mood, Mediated by Self-Esteem

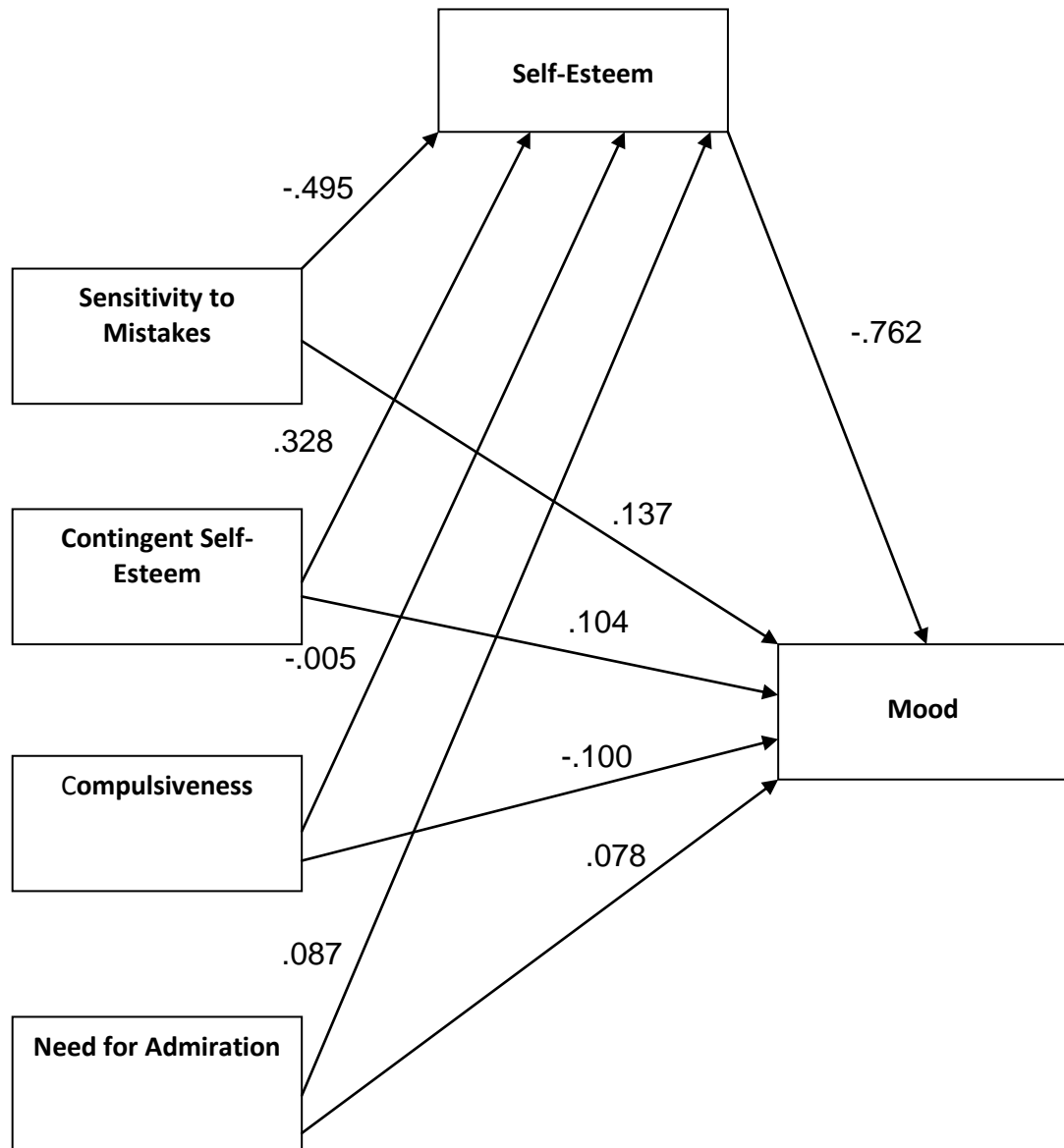


Table 4: Standardised beta coefficients, *t*-values and associated *p*-values for the Relationship between Variables in Mediation Model 2

	β	<i>t</i>	<i>p</i>
Sensitivity to Mistakes → Self-esteem	-.495	5.82	< .001
Contingent Self-Esteem → Self-esteem	.328	3.71	< .001
Compulsiveness → Self-Esteem	-.005	0.06	.952
Need for Admiration → Self-Esteem	.087	1.05	.295
Sensitivity to Mistakes → Mood	.137	1.66	.100
Contingent Self-Esteem → Mood	.104	1.32	.189
Compulsiveness → Mood	-.100	1.40	.164
Need for Admiration → Mood	.078	1.14	.259
Self-Esteem → Mood	-.762	8.56	< .001

The second mediation model can be seen in Figure 2, which investigated the relationship between four dimensions of perfectionism and mood, with self-esteem mediating the relationship. Standardised beta coefficients, *t*-values and associated *p*-values are reported in table 4.

Self-esteem was found to significantly mediate the relationship between one dimension of perfectionism, sensitivity to mistakes and mood, $z = .478$, $p < .001$ (two tailed). Self-esteem was also found to have a significant mediating effect between another aspect of perfectionism, contingent self-esteem and mood, $z = 3.39$, $p < .001$ (two tailed), which confirms one of the original hypothesis. However, self-esteem was found not to be a significant mediating relationship between compulsiveness and mood, $z = 0.06$, $p = .95$ (two tailed), and need for admiration and mood, $z = 1.04$, $p = .30$ (two tailed).

2.4.7 Dimensions of Perfectionism and Mood, Mediated by Self-Criticism

Figure 3: Mediation Model 3 - Dimensions of Perfectionism and Mood,
Mediated by Self-Criticism

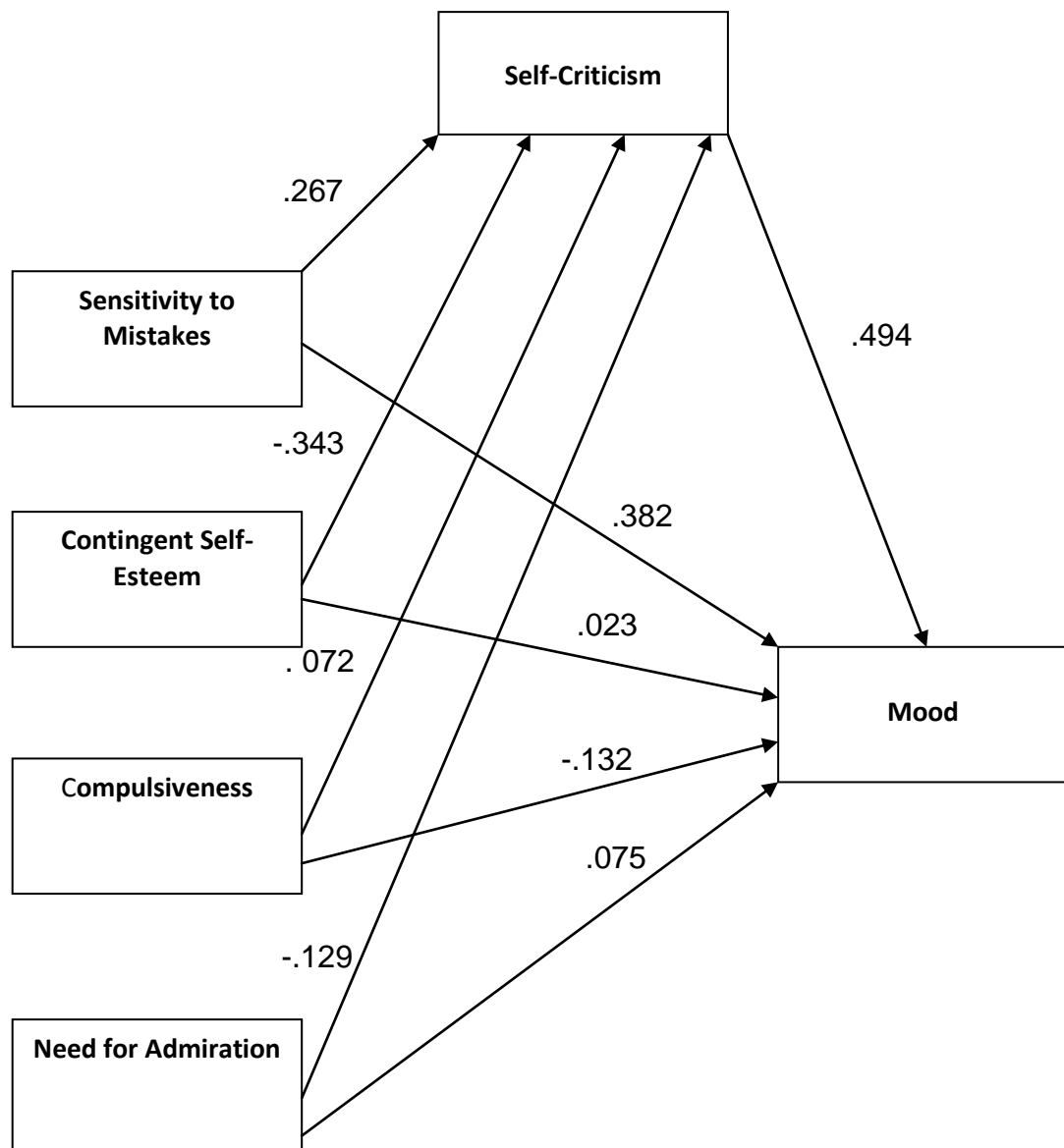


Table 5: Standardised beta coefficients, *t*-values and associated *p*-values for the relationship between variables in Mediation Model 3

	β	<i>t</i>	<i>P</i>
Sensitivity to Mistakes → Self-Criticism	.267	2.67	.009
Contingent Self-Esteem → Self-Criticism	-3.43	3.29	.001
Compulsiveness → Self-Criticism	.072	0.69	.487
Need for Admiration → Self-Criticism	-.129	1.32	.189
Sensitivity to Mistakes → Mood	.382	4.50	< .001
Contingent Self-Esteem → Mood	.023	0.25	.801
Compulsiveness → Mood	-.132	1.57	.119
Need for Admiration → Mood	0.75	0.94	.352
Self-Criticism → Mood	.494	5.59	< .001

The third mediation model (see Figure 3), investigated the relationship between four dimensions of perfectionism and mood, with self-criticism the mediating factor in the relationship. Multiple regression analysis and Sobel *z* tests were completed. Standardised beta coefficients, *t*-values and associated *p*-values are reported in table 5.

Self-criticism was found to significantly mediate the relationship between sensitivity to mistakes and mood, $z = 2.38$, $p = .017$ (two tailed), supporting one of the hypothesis. Self-criticism was also found to have a significant mediating effect between contingent self-esteem and mood, $z = 2.80$, $p = .005$ (two tailed), which supported the hypothesis. However, self-esteem was found not to be a significant mediating relationship between compulsiveness and mood, $z = 0.68$, $p = .495$ (two tailed) and need for admiration and mood, $z = 1.27$, $p = .205$ (two tailed).

2.5 DISCUSSION

2.5.1 Present Study

This study investigated the relationship between multidimensional perfectionism, self-esteem, self-criticism, and mood in 9-11 year old children. Due to the lack of information about key processes within perfectionism in children, it was important to further the knowledge base, particularly as researchers indicate the base for perfectionism originates in childhood (Frost et al., 1991). More empirical information about key underlying mechanisms will hopefully help with preventative measures and help inform intervention approaches. No previous studies with children had examined the relationship between these variables and it was hoped the study would add novel findings to the field of child perfectionism.

2.5.2 Correlations between Perfectionism Dimensions and other Variables

The present investigation reported a number of linear relationships between the perfectionism dimensions and other associated variables with many significant positive and negative correlations. Previous studies (Rice & Preusser, 2002) have also reported correlations between AMPS subscales e.g. compulsiveness was moderately correlated with sensitivity to mistakes and need for admiration, similar to the present study.

2.5.3 The Relationship between Perfectionism and Mood, Mediated by Self-Esteem

The study predicted that self-esteem and self-criticism would mediate the relationship between perfectionism and mood. Research with adults indicates that self-esteem is an important factor in perfectionism and mood (e.g. Rice et al., 1998), but it appears research has not investigated the relationship with self-criticism via mediational modelling. Research from Rice et al. (1998) showed that maladaptive perfectionism was associated with self-esteem and depression, although self-esteem did not mediate this relationship. However, they did state that self-esteem was a buffer for maladaptive perfectionism in that people only reported depression when feeling low levels of self-worth. Similar results have also been found in other studies e.g. Ashby & Rice (2002).

The present study using multiple regression analysis and mediation modelling using a Sobel z test, was able to examine the relationship between perfectionism, self-esteem, and mood in 9-11 year olds. The first mediation model showed that self-esteem did not mediate the relationship between perfectionism and mood (not supporting the predicted hypothesis), which is in line with findings with adults (e.g. Rice et al., 1998). One significant relationship was demonstrated between self-esteem and mood ($p = < .001$). Given other research findings in adults and children, theoretically this supports the relationship and highlights the need to support children with low self-esteem.

2.5.4 The Relationship between Perfectionism and Mood, Mediated by Self-Criticism

The study also investigated the relationship between perfectionism and mood mediated by self-criticism. Theoretically much has been published about the role self-criticism plays in perfectionism and how it can be focused upon during treatment approaches for adults (e.g. Ferguson & Rodway, 1994). Due to this it was important for the study to focus upon this aspect of the mediation model.

However, there was no significant mediating effect found. This may be due to the AMPS having adaptive and maladaptive features whereas analysis between the different dimensions of perfectionism did show significant mediating effects with mood (see section 2.5.6). So although other studies have shown self-criticism to be a process involved in perfectionism (e.g. Riley & Shafran, 2005), the current study indicates it does not mediate the relationship between perfectionism and mood in children.

2.5.5 The Relationship between Dimensions of Perfectionism and Mood, Mediated by Self-Esteem

As the measure of perfectionism used in the study, AMPS, provides scores for four dimensions of perfectionism, it was important to carry out analysis looking at the relationship between these factors and mood mediated by self-esteem.

Sensitivity to Mistakes

Firstly the relationship between sensitivity to mistakes and mood was analysed. Sensitivity to mistakes is viewed as being a core dimension of perfectionism in adults and children (Rice & Preusser, 2002), so this dimension of perfectionism was important to assess. In adult populations excessive concern over mistakes has been associated with maladjustment (Rice & Preusser, 2002). In their research, the authors reported that sensitivity to mistakes in children (using the AMPS) was associated with self-concept, measured using the Piers-Harris Self-Concept Scale (PHSCS) (Piers & Harris, 1969). For boys, significant correlations were found between PHSCS subscales and sensitivity to mistakes; the more sensitive to mistakes the lower the self-concept. For girls, all of the PHSCS subscales were associated with sensitivity to mistakes, apart from the behaviour subscale, with effect sizes ranging from medium to large.

The mediation model and Sobel z test showed self-esteem significantly mediated the relationship between sensitivity to mistakes and mood. Not only does this highlight sensitivity to mistakes as a key dimension of perfectionism, but it appears that high levels of sensitivity to mistakes lead to higher levels of negative affect, mediated by lower self-esteem; indicating that this variable is an important mechanism in childhood perfectionism. Awareness for parents, schools and children's services of these processes may be beneficial.

In studies with adults, self-esteem has shown to mediate the relationship between perfectionism and mood (Preusser, Rice, & Ashby, 1994). Although

as reported earlier this relationship was not present in this study, self-esteem has shown to mediate the relationship between aspects of perfectionism and mood, so some similarities between child and adult studies are demonstrated and will be important to assess further for developmental and clinical reasons.

Sensitivity to mistakes has also been shown in child research to be associated with other variables. Bas's (2011) study showed sensitivity to mistakes being significantly and positively correlated and being a predictor of anxiety. The author concluded the need for educational establishments to focus on this perfectionism dimension.

Contingent Self-esteem

The second aspect of perfectionism analysed was contingent self-esteem, which measures positive feelings stemming from task performance (Rice & Preusser, 2002). Results showed contingent self-esteem mediated the relationship between self-esteem and mood. This positive relationship indicates that contingent self-esteem is an adaptive element of perfectionism. Of course as there are similarities between self-esteem and contingent self-esteem, a relationship involving these variables would be expected.

Previous research using the AMPS has shown contingent self-esteem as a significant predictor of anxiety in boys (Rice et al., 2004). The study reported that contingent self-esteem was associated with PHSCS scores with higher levels of contingent self-esteem leading to higher levels of self-concept. There appears to be debate about whether or not contingent self-esteem is an adaptive or maladaptive aspect of perfectionism. Although this subscale

was reported as producing positive feelings if children stem from a family with conditional love/praise, children may feel the need to achieve because otherwise they will not receive these positive feelings (Rice et al., 2004). But the authors did conclude that it was an adaptive aspect of perfectionism for children. However, dimensions similar to contingent self-esteem (self-orientated and socially prescribed perfectionism) have shown to be associated with psychological difficulties such as anxiety (Hewitt et al., 2002).

Contingent self-esteem has also been found to significantly and positively correlate and be a predictor of life satisfaction and academic achievement (Bas, 2011). The author viewed this dimension to be adaptive, which the present study also demonstrated. The present study and previous research have shown the importance of contingent self-esteem as a characteristic of perfectionism and the relationship it has with other variables such as mood and that it has adaptive elements.

Compulsiveness and Need for Admiration

Two further areas of perfectionism, compulsiveness and need for admiration, did not demonstrate a significant relationship with mood mediated by self-esteem. Compulsiveness was another dimension of perfectionism that emerged during scale compilation of the AMPS (Rice & Preusser, 2002). This dimension was moderately correlated with sensitivity to mistakes and need for admiration, which the authors suggested could mean that children would show high levels of compulsiveness to avoid making mistakes. Compulsiveness compared with the measures in the current study have not

previously been assessed, but has been compared with other aspects of self, such as areas of the PHSCS. For example, significant correlations have been found between compulsiveness and a number of features such as anxiety, happiness, and satisfaction (Rice et al., 2004). Need for admiration in children has been shown to have links to adverse psychological difficulties, being significantly and positively correlated with anxiety (Bas, 2011).

It is difficult to ascertain why these dimensions of perfectionisms did not show a significant effect. It may be that these dimensions do not lead to lower mood and as other research has shown have greater significance with other variables such as anxiety. Further analysis of this relationship in future studies would be beneficial.

2.5.6 The Relationship between Dimensions of Perfectionism and Mood, Mediated by Self-Criticism

Interestingly similar findings can be seen in mediation model 3 compared with the second model previously discussed. As when self-esteem is the mediating factor, self-criticism mediates the relationship between sensitivity to mistakes and mood, and contingent self-esteem and mood. This indicates that self-criticism, as well as self-esteem as an important mediating factor between dimensions of perfectionism and mood. Research has shown links between perfectionism and mood (e.g. Rice et al., 1998) and perfectionism and self-critical depression (Grzegorek, Rice, Slaney, & Franze, 2004); the present study contributes towards the understanding of what mediates this relationship and the factors involved. We now know from the present study that mediating factors such as self-criticism play an important role in child

perfectionism, with higher levels of sensitivity to mistakes linked with lower levels of mood, mediated by higher levels of self-criticism.

2.5.7 Sex Differences in Perfectionism and Associated Variables

It has been stated that sex differences are important to investigate when conducting perfectionism research (O'Connor, 2007) and therefore the present investigation presented these results. As previous research with children had not shown clear sex differences, no hypotheses regarding possible differences between boys and girls were stated. It was because of this that separate mediation models for boys and girls were not produced. Ad hoc analysis on sex differences was carried out, comparing mean scores for all measures between boys and girls. The present study's results showed girls had higher level of perfectionism and higher levels of a number of dimensions of perfectionism, such as sensitivity to mistakes. Girls also showed higher levels of self-criticism, lower self-esteem, and higher levels of negative affect. However, none of the differences were significant and correlations indicated there were no significant differences in either the strength or relationship between variables. Similarly, Rice and Preusser (2002) found no significant difference between perfectionism subscale scores for boys and girls.

Further studies have highlighted sex differences. Specific facets of perfectionism such as sensitivity to mistakes, compulsiveness, and need for admiration showed a significant relationship with physical appearance and attributes (an aspect of self-concept) for girls. This indicates that perfectionism links with physical appearance is more prominent for girls

(Rice et al., 2004). In a further study using the AMPS, significant differences between boys and girls were recorded (Bas, 2011). In a study of 418 children ($m = 11.75$ years) investigating the relationship between perfectionism and anxiety, life satisfaction, and academic achievement, it was reported girls scored significantly higher on three perfectionism dimensions; sensitivity to mistakes, contingent self-esteem, and compulsiveness. However, effect sizes were small.

2.5.8 Limitations

Although the present study has added to the literature base for processes and relationships involved in perfectionism in children, there are some limitations. First of all only a small amount of demographic information was collected from participants, age and sex. To truly understand perfectionism and how it impacts upon a child, further demographic information may be useful. For example, ethnicity may be a useful demographic factor to take into consideration to try to establish if ethnic/cultural difference exist in levels of perfectionism. A number of research studies with adolescents discuss the impact perfectionism can have on academic performance (e.g. Bas, 2011), so recorded information about academic/educational level could also be very important when analysing data and discussing levels of perfectionism and the impact of this.

A further limitation of the study is the sole reliance on using self-report measures for collection of data. Although the quantitative data was important in establishing mediating relationships, using only self-report measures may be seen to lack richness in data. For example, it may have

been more useful if qualitative information detailing key themes had been used to supplement quantitative data to further aid understanding of child perfectionism e.g. parent and teacher interviews.

Although the RSES and SMFQ are widely used measures in child research, the AMPS and SRS have not been extensively used with children and so may not be as psychometrically robust as other measures. Furthermore, the SRS when previously used in studies was used with an older age group (12-19 years) and so the validity of use with a younger age group may be questioned. To adjust for the younger age group, two of the measures (RSES and SRS) had small amounts of language changed to certain items. This may have impacted upon the validity and reliability of the measures and a pilot study was not carried out initially to try to ascertain if the measures were indeed understood effectively by children.

2.5.9 Directions for Future Research

Although the present study has added to the knowledge base of processes involved in child perfectionism, there is still much research to be carried out. Many researchers have argued that little research has been carried out in the area (e.g. Flett & Hewitt, 2012) and that there are still many questions left to be answered. Further research with non-US samples may be beneficial so as to ensure findings are more generalisable. Further research with young children would be advantageous due to aetiology indicating that perfectionism has origins in childhood (e.g. Frost, Lahart, & Rosenblate, 1991). Investigation of a wider range of variables so as to further ascertain the processes and mechanisms involved in the aetiology and maintenance of

perfectionism may be helpful. For example, investigating self-concept, which may give a broader understanding of perfectionism. As anxiety has been found to have a significant effect with perfectionism (e.g. Bas, 2011; Hewitt et al., 2002,), use of an anxiety measure may also help explore the processes involved.

Further use of demographic data may also be beneficial. Sex, age, and ethnicity are frequently collated during child research, but few studies appear to have collected information regarding social class. It may be beneficial to analyse any link with socially prescribed perfectionism (SPP), which Hewitt and Flett (1991), describe as a person holding beliefs that others have unrelenting standards for them. A study carried out with adolescents (14-18 years old) from a middle-upper class geographical area, found SPP was associated with emotional distress (Hankin, Roberts, & Gotlib, 1997). Further research comparing levels of perfectionism in differing social class backgrounds may be beneficial.

As much of the available research is quantitative; qualitative or mixed methods research may be useful in furthering understanding. Qualitative research with adults has helped to establish key maintaining factors in perfectionism (Riley & Shafran, 2005). Similar research with children would be helpful in establishing key maintaining mechanisms, which may give richer information for theoretical and clinical purposes. Not only may it be useful to gather qualitative data from children, but also from teachers, with focus groups being conducted. Parental interviews, using quantitative and/or qualitative measures may also be helpful in further strengthening our

understanding of the origins and maintenance of perfectionism to ensure more preventative measures and effective interventions are implemented.

2.5.10 Conclusion

Although there are limitations of the present study, it provides further data to a research field which has unanswered questions. The present study has been able to highlight some of the positive and negative relationships which occur between perfectionism and mood in 9-11 year old children. First of all the study was able to show a significant relationship between self-esteem and mood. Further significant relationships presented between sensitivity to mistakes and mood mediated by self-esteem, and self criticism; and contingent self-esteem, mediated by self-esteem, and self criticism. The study indicated there are adaptive features of perfectionism, such as contingent self-esteem, which was linked to stable mood. Maladaptive dimensions were demonstrated such as sensitivity to mistakes, with high levels of this feature, mediated by higher levels of self-criticism and lower self-esteem, linked with lower mood. The study highlights key relationships and with further quantitative and qualitative research carried out in this age group, preventative educational and clinical approaches could be implemented to ensure maladaptive perfectionism in children is approached in an effective manner.

Table 6: Main Study Findings

Key Points

- There was a significant relationship between self-esteem and mood
- There was a significant relationship between sensitivity to mistakes and mood, mediated by self-esteem
- There was a significant relationship between contingent self-esteem and mood, mediated by self-esteem
- There was a significant relationship between sensitivity to mistakes and mood, mediated by self-criticism
- There was a significant relationship between contingent self-esteem and mood, mediated by self-criticism

2.6 REFERENCES

Angold, A., Costello, E. J., & Messer, S. C. (1995). Development of a short questionnaire for use in epidemiological studies of depression in children and adolescents. *International Journal of Methods in Psychiatric Research*, 5, 237-249.

Ashby, J. S., & Rice, K. G. (2002). Perfectionism, dysfunctional attitudes, and self-esteem: a structural equations analysis. *Journal of Counseling and Development*, 80, 197-203.

Baron, R. M., & Kenny, D. A. (1986). The Moderator-Mediator Variable Distinction in Social Psychological Research: Conceptual, Strategic and Statistical Considerations. *Journal of Personality and Social Psychology*, 51 (6), 1173-1182.

Bas, A. U. (2011). Dimensions of Perfectionism in Elementary Aged School Children: Associations with Anxiety, Life Satisfaction and Academic Achievement. *Education and Science*, 36 (162), 261-272.

Bieling, P. J., Summerfeldt, L. J., Israeli, A. L., & Antony, M. M. (2004). Perfectionism as an explanatory construct in comorbidity of axis 1 disorders. *Journal of Psychopathology and Behavioral Assessment*, 26, 193-201.

Blaney, P., & Kutcher, G. (1991). Measures of Depressive Dimensions. Are they Interchangeable? *Journal of Personality Assessment*, 56, 226-232.

Blascovich, J., & Tomaka, J. (1993). Measures of Self-Esteem. In J. Robinson, P. Shaver, & L. Wrightsman (Eds.), *Measures of Personality and Social Psychological Attitudes*. (pp. 115-160). USA: Academic Print.

Blatt, S. J. (1995). The destructiveness of perfectionism: Implications for the treatment of depression. *American Psychologist*, 50, 1003–1020.

Blatt, S. J., & Zuroff, D. C. (2002). Perfectionism in the therapeutic process. In G. Flett & P. Hewitt (Eds.), *Perfectionism: Theory, Research, and Treatment* (pp. 393–406). Washington, DC: American Psychological Association.

Brouwers, M., & Wiggum, C. (1993). Bulimia and Perfectionism: Developing the Courage to be Imperfect. *Journal of Mental Health Counseling*, 15, 141-149.

Burns, D. D. (1980). The Perfectionist's script for self-defeat. *Psychology Today*, 14 (6), 34-52.

Davis, M. C., & Wosinski, N. (2012). Cognitive errors as predictors of adaptive and maladaptive perfectionism in children. *Journal of Rational-Emotive and Cognitive-Behavior Therapy*, 30 (2), 105-117.

DiBartolo, P. M., & Varner, S. P. (2012). How Children's Cognitive and Affective Responses to a Novel Task Relate to the Dimensions of Perfectionism. *Journal of Rational-Emotive and Cognitive-Behavior Therapy*, 30, 62-76.

Dixon, F. A., Lapsley, D. K., & Hanchon, T. A. (2004). An empirical typology of perfectionism in gifted adolescents. *Gifted Child Quarterly*, 48 (2), 95-106.

Egan, S. J., Wade, T. D., & Shafran, R. (2011). Perfectionism as a transdiagnostic progress: A clinical review. *Clinical Psychology Review*, 31, 203-2012.

Fairburn, C. G., Cooper, Z., & Shafran, R. (2003). Cognitive behaviour therapy for eating disorders: A 'transdiagnostic' theory and treatment. *Behaviour Research and Therapy*, 41, 509–528.

Ferguson, K. L., & Rodway, M. R. (1994). Cognitive-behavioural treatment of perfectionism: initial evaluation studies. *Research on Social Work Practice*, 4, 283-308.

Flett, G. L., & Hewitt, P. L. (2002). Perfectionism and maladjustment: an overview of theoretical, definitional and treatment issues. In G. L. Flett, & P. L. Hewitt (Eds.), *Perfectionism: Theory, Research and Treatment* (pp. 5-31). Washington, DC: American Psychological Association.

Flett, G. L., & Hewitt, P. L. (2012). Perfectionism and Cognitive Factors in Distress and Dysfunction in Children and Adolescents: Introduction to the Special Issue. *Journal of Rational-Emotive and Cognitive-Behavior Therapy*, 30, 53-61.

Flett, G. L., Hewitt, P. L., Blankstein, K. R., & O'Brien, S. (1991). Perfectionism and learned resourcefulness in depression and self-esteem. *Personality and Individual Differences*, 12, 61-68.

Flett, G. L., Hewitt, P. L., Boucher, D. J., Davidson, L. A., & Munro, Y. (2001). *The Child-Adolescent Perfectionism Scale: Development, validation, and association with adjustment*. Unpublished Manuscript.

- Flett, G. L., Hewitt, P. L., Dermerjian, A., Sturman, E. D., Sherry, S. B., & Cheng, W. (2012). Perfectionistic automatic thoughts and psychological distress in adolescents: an analysis of the perfectionism cognitions inventory. *Journal of Rational Emotive and Cognitive-Behavioural Therapy*, 30, 91-104.
- Frost, R. O., Heinberg, R., Holt, C., Mattia, J., & Neubauer, A. (1993). A comparison of two measures of perfectionism. *Personality and Individual Differences*, 14, 119-126.
- Frost, R. O., Lahart, C. M., & Rosenblate, R. (1991). The development of perfectionism: A study of daughters and their parents. *Cognitive Therapy and Research*, 15, 469– 489.
- Glassman, L., Weierich, M. R., Hooley, J. M., Deliberto, T. L., & Nock, M. N. (2007). Child maltreatment, non-suicidal self-injury, and the mediating role of self-criticism. *Behaviour Research and Therapy*, 45 (10), 2483-2490.
- Gnilka, P. B., Ashby, J. S., & Noble, C. M. (2012). Multidimensional perfectionism and anxiety: differences among individuals with perfectionism and tests of a coping-mediation model. *Journal of Counselling and Development*, 90, 427-436.
- Grzegorek, J. L., Rice, K. G., Slaney, R. B., & Franze, S. (2004). Self-Criticism, Dependency, Self-Esteem, and Grade Point Average Satisfaction Among Clusters of Perfectionists and Nonperfectionists. *Journal of Counseling Psychology*, 51 (2), 192-200.
- Hamachek, D. E. (1978). Psychodynamics of normal and neurotic perfectionism. *Psychology: A Journal of Human Behavior*, 15, 17-33.

Hankin, B., Roberts, J., & Gotlib, I. (1997). Elevated Self-Standards and Emotional Distress during Adolescence: Emotional Specificity and Gender Differences. *Cognitive Therapy and Research*, 21 (6), 663-679.

Hewitt, P. L., Caelian, C. F., Flett, G. L., Sherry, S. B., Collins, L., & Flynn, C. A. (2002). Perfectionism in children: associations with depression, anxiety, and anger. *Personality and Individual Differences*, 32, 1049-1061.

Hewitt, P. L., & Flett, G. L. (1990). Perfectionism and Depression: A multidimensional analysis. *Journal of Social Behaviour and Personality*, 5, 423-438.

Hewitt, P. L., & Flett, G. L. (2001). Perfectionism and stress enhancement, perpetuation, anticipation, and generation in psychopathology. In G. L. Flett & P. L. Hewitt (Eds.). *Perfectionism: Theory and Research* (pp. 742-775). Washington, DC: American Psychological Association.

Hooley, J., Ho, D. T., Slater, J., & Lockshin, A. (2002). Pain insensitivity and self-harming behavior. Paper presented at the annual meeting of the Society for Research in Psychopathology.

Hooley, J. M., Ho, D. T., Slater, J., & Lockshin, A. (2010). Pain Perception and Non-suicidal Self-Injury: a Laboratory Investigation. *Personality Disorders: Theory, Research and Treatment*, 1 (3), 170-179.

Kawamura, K. Y., Frost, R. O., & Harmatz, M. (2002). The relationship of Perceived parenting styles in perfectionism. *Personality and Individual Difference*, 32, 317-327.

Kline, R. B. (2005). *Principles and practice of structural equation modelling: second edition*. New York: Guilford Press.

Leon, G., Fulkerson, J., Perry, C., & Early-Zald, M. (1995). Prospective analysis of personality and behavioral vulnerabilities and gender influences in the later development of disordered eating. *Journal of Abnormal Psychology*, 104, 140-149.

Lilenfield, L. R., Wonderlich, S., Riso, L. P., Crosby, R., & Mitchell, J. (2006). Eating Disorders and Personality: A Methodological and Empirical Review. *Clinical Psychology Review*, 26 (3), 299-320.

LoCicero, K. A., & Ashby, J. S. (2000). Multidimensional perfectionism in middle school age gifted students: a comparison to peers from the general cohort. *Roeper Review*, 22, 182-186.

McVey, G. L., Pepler, D., David, R., Flett, G. L., & Abdoell, M. (2002). Risk and protective factors associated with disordered eating during early adolescence. *Journal of Early Adolescence*, 22, 75-95.

Melrose, S. (2011). Perfectionism and Depression. Vulnerabilities Nurses need to understand. *Nursing Research and Practice*.
<http://dx.doi.org/10.1155/2011/858497>

Missildine, W. H. (1963). *Your inner child of the past*. New York: Simon & Schuster.

- Nobel, R., Manassis, K., & Wilansky-Tryanor, P. (2012). The Role of Perfectionism in Relation for an Intervention to Reduce Anxious and Depressive Symptoms in Children. *Journal of Rational-Emotive and Cognitive-Behavior Therapy*, 30, 77-90.
- O'Connor, R. C. (2007). The Relations between perfectionism and suicidality: a systematic review. *Suicide and Life Threatening Behaviour*, 27, 698-714.
- O'Connor, R. C., Dixon, D., & Rasmussen, S. (2009). The structure and temporal stability of the child and adolescent perfectionism scale. *Psychological Assessment*, 21 (3), 437-443.
- O'Connor, R. C., Rasmussen, S., & Hawton, K. (2010). Predicting depression, anxiety and self-harm in adolescents: the role of perfectionism and acute life stress. *Behaviour Research and Therapy*, 48, 52-59.
- Piers, E., & Harris, D. (1969). *Piers-Harris Children's Concept Scale*. Los Angeles: Western Psychological Services.
- Preusser, K. J, Rice, K. G., & Ashby, J. S. (1994). The role of self-esteem in mediating the perfectionism-depression connection. *Journal of College Student Development*, 35, 88-93.
- Rice, K. G., & Ashby, J. S. (2007). An efficient method for classifying perfectionists. *Journal of Counseling Psychology*, 54, 72-85.
- Rice, K. G, Ashby, J. S., & Slaney, R. B. (1998). Self-esteem as a mediator between perfectionism and depression: a structural equations analysis. *Journal of Counseling Psychology*, 45 (3), 304-314.

Rice, K. G., Kubal, A. E., & Preusser, K. S. (2004). Perfectionism and children's self-concept: further validation of the adaptive/maladaptive perfectionism scale. *Psychology in the Schools*, 41 (3), 279-290.

Rice, K. G., Leever, B. A., Noggle, C. A., & Laspsely, D. K. (2007). Perfectionism and depressive symptoms in early adolescence. *Psychology in the Schools*, 44 (2), 139-156.

Rice, K. G., & Preusser, K. J. (2002). The adaptive/maladaptive perfectionism scale. *Measurement and Evaluation in Counseling and Development*, 34, 201-222.

Riley, C., & Shafran, R. (2005). Clinical Perfectionism: A Preliminary Qualitative analysis. *Behavioural and Cognitive Psychotherapy*, 33, 369-374.

Rosenberg, M. (1986). *Conceiving the Self*. Florida: Krieger.

Rosenberg, M. (1989). *Society and the adolescent self-image. Revised Edition*. Middletown, CT: Wesleyan University Press.

Sharp, C., Goodyer, I. M., & Croudace, T. J. (2006). The Short Mood and Feelings Questionnaire (SMFQ): A unidimensional item response theory and categorical data factor analysis of self-report ratings from a community sample of 7-through 11 year-old children. *Journal of Abnormal Child Psychology*, 34 (3), 379-391.

Sorotzkin, B. (1985). The quest for perfection: avoiding guilt or avoiding shame? *Psychotherapy*, 22 (3), 564-571.

Stoeber, J., & Childs, J. H. (2012). Perfectionism. In R. J. R. Levesque (Eds.), *Encyclopaedia of Adolescence* (pp. 2053-2059). New York: Springer.

Stoeber, J., & Otto, K. (2006). Positive conceptions of perfectionism: approaches, evidence, challenges. *Personality and Social Psychology Review*, 19, 295-319.

Tofaha, G. A., & Ramon, P. R. (2010). Perfectionism and self-concept among primary school children in Egypt. *Electronic Journal of Research in Educational Psychology*, 8 (3), 1099-1114. Retrieved from http://www.investigacionpsicopedagogica.org/revista/articulos/22/english/Art_22_460.pdf

Winters, N. C., Myers, K., & Proud, L. (2002). Ten-year review of rating scales. III: Scales assessing suicidality, cognitive style, and self-esteem. *Journal of the American Academy of Child and Adolescent Psychiatry*, 4, 1150-1181.

Zuroff, D., Koestner, R., & Power, T. (1994). Self-Criticism at Age 12: A Longitudinal Study of Adjustment. *Cognitive Therapy and Research*, 18 (4), 367-385.

Chapter 3 – Reflective Paper

CONFESSIONS OF A TRAINEE CLINICAL PSYCHOLOGIST: REFLECTIONS ON THE DOCTORAL THESIS JOURNEY

Chapter Word Count: 3,998 (excluding title page, figures, tables, and reference list)

Prepared for Submission to: Reflective Practice (see Appendix 3 for Author Guidelines)

3.0 INTRODUCTION

This paper details the journey I have taken, professionally and personally throughout the doctoral thesis process. It felt important that I was able to write about something truly reflective and personal, as the two previous thesis papers had been more formal in basis. I hoped it would be beneficial for other practitioners in similar situations.

The writing of the reflective paper seemed natural in its process, evidence to me it was truly reflective. The doctoral thesis journey began whilst teaching, where the idea for my empirical research arose. This paper will reflect upon all phases of the research process; from design, to recruitment phase, to write up. And finally bringing it all together and reflecting upon my anxieties around the research process and where it took me to as a trainee clinical psychologist.

3.1 'WHY DID YOU TEAR IT UP?'

Before commencing the doctorate at Coventry University, I had a research project in mind. My research idea was to investigate perfectionism in primary school children having previously worked with this age range whilst teaching and working as an assistant psychologist for a child and adolescent mental health service (CAMHS).

Upon thinking of a research idea, I thought of an incident I had witnessed whilst working as a primary school teacher. I was supply teaching at the time, so I worked across a range of schools. I was teaching a year 5 class. The children were completing a piece of art work. Most of them enjoyed this and happily went out for afternoon break. One girl (aged 10) had done a

beautiful piece of work, but was still at her desk when the rest of the class had joyfully left for outside fun. She then proceeded to rip it up into several pieces and looked distressed. I said 'why did you tear it up?' The girl replied, 'it's not good enough, I'll have to do it again.' 'Can I stay in at break time and do it again please, Mr Wilde?' We had a short sensitive discussion around this and I gently encouraged her to use her break-time for what it was for and she did go outside. This stuck with me. Writing about it now makes me feel upset, my stomach churning. When I thought of this incident, the idea of investigating perfectionism in primary school children seemed important.

3.2 RESEARCH DESIGN AND THESIS PROPOSAL

During February 2012, we were asked to consider our research design in a more formal manner. I met with potential supervisors and discussed research designs. I spent a number of research days over the coming months in the library reading a vast amount of articles. It felt like I was drowning in a sea of journals, I was treading water and getting nowhere. I originally proposed a mixed methods design. The population was to be non-clinical, as using a clinical sample was deemed to be too difficult due to high levels of comorbidity seen in people with maladaptive perfectionism (Shafran, Cooper, & Fairburn, 2002). I felt comfortable regarding the designated population as the literature suggested that more information was needed about the processes involved in perfectionism in young children (Hewitt et al., 2002; Rice & Preusser, 2002).

I was interested in investigating the relationship between perfectionism and other variables, such as self-criticism, with 9-11 year old children. I was proposing collecting quantitative data from children and to use focus groups to enrich data.

However, as time passed the design became problematic. I was advised to change methodology to quantitative. The change in methodology at a late stage in the proposal phase made me feel overwhelmed. At the same time I was completing clinical work and a clinical practice report, so felt pressurised. I spent time away from work and the course, trying to incorporate mindfulness principles. Having fortunately participated in a mindfulness course, provided by Coventry University, I was starting to use the principles to help me cope with stress. The thesis proposal was submitted, though this was surrounded by uncertainty.

3.3 THESIS PROPOSAL GRADE

Having previously passed all assignments, it was a shock to receive a 'fail' for the thesis proposal. Due to the lack of structure I found the thesis proposal difficult, with major grappling over the empirical design. However, I make mistakes, can fail and did, so accepted this. I changed the focus of my literature review, which gave it greater clarity. A systematic review was to be completed - reviewing psychological treatments for maladaptive perfectionism in adults, a potentially useful clinical tool. I also amended other aspects of the proposal where appropriate and resubmitted. My empirical research was to be '*The Relationship between Multidimensional Perfectionism, Self-esteem, Self-criticism, and Mood in Primary School*

Children'. It was to assess the 9-11 year old age range. As maladaptive perfectionism has links to adverse consequences in adolescence and adulthood (Gnilka, Ashby, & Noble, 2012), and not enough was known about the processes involved in children, I felt it was important to increase the knowledge base so clinical and educational preventative measures could be implemented. Upon return of my resubmission, I passed with good feedback. I was back on-track, for now.

3.4 FIGHTING FIRES

It was now February 2013, so there was sufficient time to complete necessary thesis tasks. However, I frequently put aside commitments due to more imminent demands e.g. clinical work, doctorate assignments, and conference presentations, which I was enjoying. I was aware of time elapsing and somewhere in the back of mind I was worried. I recall a conversation around this with a fellow psychologist:

Me: *'I know I need to be crackin' on with the thesis, but I am busy fighting fires; I'm putting out the little ones close to me (more imminent doctorate assignments), the thesis is the big one at the back.'*

Colleague: *'But the big fire can bring the house down.'*

Me: *'Thanks for that.'*

Of course this meant that I could not pass the doctorate if I did not complete the thesis to a satisfactory standard. I was worried.

3.5 LEARNING AND REFLECTION

Working in CAMHS further strengthened my desire to add to the knowledge base of perfectionism. Some clients in the service exhibited features of maladaptive perfectionism with parental style appearing to be a contributing factor. Theoretical views of perfectionism argue that children feel the need to perform at such a high level otherwise they will not receive love or attention from important others e.g. parents/guardians (Missildine, 1963).

After handing in final non-thesis assignments, I now had one further piece of work to submit, the doctoral thesis. The big fire was now raging and closing in. Although I began the ethics application many months before, I had not submitted. After many changes, I eventually gained ethical clearance in January 2014; with hand in date May 9th, much was still to be done.

Experientially, this was a big learning and development period for me. Feeling fatigued and burdensome from the demands of the clinical doctorate meant I continually set aside aspects of the thesis, such as the ethics application. But perhaps also due to the inner fear I displayed towards the thesis, this was exacerbated by procrastination towards the project and whether or not I had the ability to succeed. Thoughts such as '*is my research design suitable?*' on reflection, deterred me from submitting my ethics application earlier in the process. Gaining ethical approval at such a late stage brought about enormous pressure, which meant many months of working long hours alongside clinical demands. Although I continued to enjoy the doctorate, I was feeling fatigued. This led to increased stress and the need to increase self-care aspects, which had lapsed. The eventual

realisation that I could function effectively as a researcher enabled me to reflect about how I may have approached such a process differently.

Working reflectively in a clinical capacity enabled me to learn more about myself and led to the doctorate being a successful professional and personal learning experience. Having used Kolb's learning cycle (Kolb, 1984) in clinical situations; it is this model, which I used to help reflect on this situation. Although design and submission of ethics was a concrete and active experience, I was experientially involved with, I avoided the *reflective observation* and *abstract conceptualization* stages of the reflective cycle. I did not reflect upon what was occurring and so therefore did not fully understand what was happening; fear and avoidance curtailed this experience, which may have been useful and stemmed later episodes of stress. Without learning, I was unable to implement the *active experimentation* phase of the learning process. Reflection after the event however, will enable me to implement this learning at a later point. For example, if I encounter difficult and stressful projects in the future, I would look to take a step back, think and reflect, communicate my fears and discuss in the appropriate setting e.g. supervision and with a better understanding, implement learning points. Hopefully this would lead to less procrastination and a more achievable balance and therefore more manageable stress levels.

3.6 THE BEAST

Having to fully integrate myself into the research process made me start to think about what I needed to complete and how much time I had; on top of working clinically, as I had just begun working in neuropsychology. I felt overwhelmed by the research process and felt it was my weakest area. My thoughts fluctuated about the outcome, from 'I'll pass, I'll be okay', to 'I won't get enough data, I'll have to resubmit.' I was always confident when awaiting doctorate assignment marks, knowing I had passed. This felt different. I did not have much research experience and it was difficult and time consuming; I nicknamed the thesis 'the beast'.

During this period, I attended teaching on writing the reflective paper and read Claire David's (2006) paper. One particular quote resonated with me (p.194):

'Furthermore, if I failed the research I would not gain my qualification. By the time I qualified, I had spent nine years working towards the qualification as an undergraduate, assistant psychologist and finally a trainee. To have failed at the final hurdle would have been sickening.'

I had used similar words on a number of occasions in previous weeks and it was *exactly* how I felt. I too had spent a number of years reaching this point, passing all other doctorate assessments, so I felt to fail at the final stage would be extremely unfair. The thesis continued and although I was enjoying the experience, as I was working on it daily during a seven week research block, it was becoming '*gruelling*' and my concentration levels were diminishing. Self-care was needed.

3.7 SELF-CARE

3.7.1 *'I've got a Doctoral Thesis to do.'*

I was working in neuropsychology and really enjoying it. The pressure was high, trying to juggle clinical and research demands and I was becoming tired. During the thesis period I was able to carry out my job to a good standard and interact effectively out of work, if nothing out of the ordinary happened and if nobody irritated me. My tolerance and capacity was low. For example, out of work if someone started arguing with me or even if this happened close-by, I walked away. If I was trying to study and someone nearby was making noise, I had to move to another desk, I could only manage working in a quiet environment. Working in neuropsychology I was aware of how cognition worked and how fatigue affected it. Indeed it has been demonstrated that fatigue can impact upon cognitive performance (Kahol et al., 2008). At the end of each week I felt so fatigued, I had little tolerance. For example, in supermarkets if people were choosing items in an area I wanted access to, I was furious that my time was being slowed by them. I often uttered quietly (non-audible level) *'come on, I've got a doctoral thesis to do'*. Basically saying my need was greater than their need due to the pressure I was under. I would normally be more patient. This confirmed to me that I was experiencing high levels of stress and needed to react to this not only for the good of the research project, but for the sake of my own health.

3.7.2 Mindfulness

During the first year our cohort participated in a mindfulness course. Mindfulness has its roots in Buddhist approaches and tries to teach people not to continually be in automatic pilot and to enjoy the present moment, being attentive to what is occurring in a non-judgemental way (Grossman, Niemann, Schmidt, & Walach, 2004). Meditation is a central part of the approach and was first used successfully with chronic pain patients in America (Kabat-Zinn, 1982).

As well as using mindfulness in practice with clients, I personally use mindfulness meditation and practices to help manage my stress levels, which fluctuated at various periods throughout the thesis journey. It helped me to manage my stress during difficult times. From meditation exercises through to showering and walking mindfully to ensure I was enjoying these experiences moment by moment. Indeed as I was enjoying the doctorate so much, I aimed to *savour each moment* whilst it lasted.

For added self-care benefits I also read a mindfulness book my neuropsychology supervisor had bought me, which I treasure. I remember during a particularly difficult day when working on the systematic review and feeling like I was getting nowhere, I opened up the book on a random page. The following comment was present:

‘Trying too hard to solve a problem often makes it worse.’ (Rowan, 2013, p.46)

This enabled me to reflect that I was too immersed in what I was trying to do and needed to approach it from a different perspective. This enabled me to continue with renewed motivation.

On a further occasion I randomly opened the same book and came across the following extract:

‘Take a few moments to stop and notice whatever sounds are going on around you at the moment.’ (Rowan, 2013, p.42).

This is something I enjoy during mindfulness practice and reminded me to not only do this during formal practice, but at random moments wherever I was on the journey. This way of being helped me to cope with the stresses and strains of the thesis journey.

3.7.3 *Nil Satis Nisi Optimum*

Although on occasions I had to reduce social aspects during this busy period, I still attended football matches watching my beloved Everton. *‘Nil Satis Nisi Optimum’* is Everton’s Latin motto which translates as *‘nothing but the best is good enough.’* In the world of perfectionism this would not be a good motto for somebody to have, but unfortunately many do live life in this manner. But in the passion, tradition and joy of Everton Football Club, it works and Everton fans alike truly value the Latin motto.

It was important for me to attend social events/football, as it gave me space and time away from the thesis. The train journey gave me space and time to reflect and be mindful. The occasion itself was joyful and atmospheric, particularly if winning and the social aspects of the day out were also

mentally beneficial. The Mental Health Foundation (n.d.) reported benefits on mental health regarding football spectating, which accurately reflects some of the delirious joy I can experience:

'When your team does well, it prompts feelings of happiness, well-being and collective euphoria. Fans 'bask in reflected glory' (BIRG). It has been suggested that 'BIRGing' improves mood both in individuals and in communities. If a team loses a match, however, it does not necessarily have a negative impact on mental health. '

I do not entirely agree with this as if Everton lose, my mood fluctuates for a short time afterwards and I do not mix as effectively; so it can impact emotionally, cognitively, and behaviourally, though not in a significant manner. The mental health site also describes the relational aspects of attending football matches and this quote resonated with me:

'Having strong relationships is known to be a key factor in the maintenance of positive mental health. Football plays an important role in the formation and maintenance of social and familial relationships. Over 90% of people who attend matches go with friends, family or colleagues.'

Again this was true for me, attending matches with family and friends and enjoying the social contact that comes with it. The article also discusses other benefits, such as a release of cathartic emotion (e.g. when screaming) and that social identity theory where being part of a group in such a strong way, helps people feel belonged and strengthens self-identity. I can identify with this and felt this helped with my psychological balance during thesis write-up. The fact that Everton went on a seven match winning streak and

coupled with this meant feelings of euphoria and social contact with family and friends, strengthened my resolve for the rest of the thesis study block.

3.7.4 *Increasing Cerebral Blood Flow*

I also listened to music on a number of occasions throughout the thesis write-up. One study (Blood & Zattore, 2001) through use of emission tomography has shown psychophysiological changes in the brain occur whilst listening to music, in areas such as the amygdala and hippocampus and is associated with reward and motivation systems. After listening to music prior to completing work, my motivation levels often felt higher, from disco music to improve mood to classical during preparation for this paper. All of the different self-care factors were important in not only helping me to complete the thesis to a standard deemed good enough, but also to keep my physical and mental wellbeing in a stable of equilibrium.

3.8 REFLECTING IN AND ON ACTION

In schools I reflected during data collection sessions and afterwards. During initial sessions I felt I was not engaging the children effectively enough and during the first two sessions at one school, 12 children said they did not want to participate in the research. I have previously utilised *reflecting in and on action* (Schon, 1991) in clinical practice. During sessions I made small changes to ensure the children felt comfortable. Reflection after the original sessions ensured that I then made further changes such as carrying out warm-up and warm-down exercises, so children felt comfortable whilst participating in the study and after completion.

3.9 FEELING SAD

When scoring measures for the empirical research I found it difficult, in particular when scoring the Short Mood and Feelings Questionnaire (Angold, Costello, & Messer, 1995). I was scoring items such as 'I hated myself' and 'I thought nobody really loved me' and some children were rating this as 'true'. I felt nauseous doing this and felt sad that I could not intervene clinically, though there was some form of support in place for children if required (see appendix 15). Although as a psychologist, clinical and research skills are important, I felt I had to separate myself in this instance and try to learn to accept that I cannot always intervene in situations. Although working as a clinician and researcher have similarities; this was a difference I had not previously experienced and was a further experience I learnt from.

3.10 PERFECTIONISM

As the empirical research investigated perfectionism, I spent some time reflecting upon my own way of working. On reflection of how I work and feel, I concluded that during periods of study and work, I exhibited features of adaptive perfectionism, which is viewed as healthy and has positive links with wellbeing and academic achievement (e.g. Stoeber & Rambow, 2007). I strive for success, but enjoy success and do not fear failure. I failed the thesis proposal and although upsetting, accepted this and moved forward. The thesis I felt, required all aspects of adaptive perfectionism, as I viewed it as a piece of work, which was not only complex and demanding, but was required at a high standard. Having reflected upon my beliefs and fears over

my research skills, I did fear failure early in the process. This way of thinking and feeling, may have exacerbated my levels of stress and started to impact upon me. Behaviourally and mindfully I continued to progress and I shifted my focus away from these thoughts, which helped ground me and enabled me to progress with the research process without ruminating about failure. It did not have to be 'perfect', just 'good enough'.

3.11 PROGRESSION AS A PSYCHOLOGIST AND RESEARCHER

It is important to also reflect upon my skills as a trainee clinical psychologist and as a scientist-practitioner developing research skills. Upon starting the doctorate I felt anxious about my ability to carry out research to a doctorate standard. Early success with a small scale service project with my local employing National Health Service Trust gave me confidence. This was further encouraged by disseminating the findings locally and at conference. However, I still had an underlying anxiety that I would fail the thesis as my research skills were 'not good enough'. I continued to get excellent feedback on my clinical work and clinical practice reports, but this was not enough to be a clinical psychologist. Research on trainee clinical psychologists stress levels and coping mechanisms was carried out by Cushway (1992). Fifty-nine reported psychological difficulties via the general stress questionnaire. The reason for stress was highlighted through factors, such as self-doubt and workload. This was evident for me because of the workload. The study reported coping strategies such as exercise, talking to friends, and supervision. I was limited with exercise due to post viral fatigue, but processing my stress and worries through talking to family and friends was beneficial. Immediate family members telling me 'you can do it' and 'we're

proud of you' made me feel very emotional, in a positive way and helped to motivate me.

Use of research supervision was also helpful in guiding me through the process and strengthening my belief that I could produce a thesis worthy of doctorate level. Experientially, actually carrying out the research saw a big shift in not only my belief about myself as a scientist-practitioner, but also proving I did indeed have the necessary research skills. This was seen through not only how I successfully designed the study, but data collection, analysis and successful write up of the systematic review and empirical paper. In turn this gave me the confidence that only did I have the clinical skills, but also the research skills to become a clinical psychologist. It felt good. And finally my reflective skills which were encouraged and fostered during training have developed further. Not only do I now reflect clinically and personally, but also as a researcher and these areas complement each other to achieve further balance

3.12 CONCLUSIONS

The doctoral thesis journey has been a long and difficult one, at times really stressful. The idea for my empirical research was discussed informally with the course director during interview, so to eventually see it come to fruition felt good.

Professionally and personally my strengths and limitations were laid bare. Physically and cognitively; the journey has been highlighted through a wide range of physical sensations and emotional experiences. I learnt to be aware of this and use effective coping strategies where appropriate, such as

mindfulness. Not only am I now a much more skilled researcher, but in my view a more rounded psychologist. Not only due to the increased range of research skills I now possess, but also because I am now more aware of the clinical implications for research and how I may now approach clinical work differently due to this experience. I'm now more aware of systematic reviews and the importance of these; what is effective and what is not, and the importance of treatment implications. From my empirical research, I am now more aware of underlying mechanisms and processes and to formulate in a careful manner. This is something I will take forward and continue to grow and develop as a researcher and overall as a clinical psychologist, and I look forward to this exciting and enjoyable experience.

3.13 REFERENCES

Angold, A., Costello, E. J., & Messer, S. C. (1995). Development of a short questionnaire for use in epidemiological studies of depression in children and adolescents. *International Journal of Methods in Psychiatric Research*, 5, 237-249

Blood, A. J, & Zattore, R. J. (2001). Intensely pleasurable responses to music correlate with activity in brain regions implicated in reward and emotion. *PNAS*, 98 (20), 11818-11823.

Cushway, D. (1992). Stress in clinical psychology trainees. *British Journal of Clinical Psychology*, 31, 169-179.

David, C. (2006). Reflections on the research process as a trainee clinical psychologist: is it feasible to be a scientist-practitioner? *Reflective Practice*, 7 (2), 193-196.

Gnilka, P. B., Ashby, J. S., & Noble, C. M. (2012). Multidimensional perfectionism and anxiety: differences among individuals with perfectionism and tests of a coping-mediation model. *Journal of Counselling and Development*, 90, 427-436.

Grossman, P., Niemann, L., Schmidt, S., & Walach, H. (2004). Mindfulness-based Stress Reduction and health benefits: A meta analysis. *Journal of Psychosomatic Research*, 57, 35-43.

Hewitt, P. L., Caelian, C. F., Flett, G. L., Sherry, S. B., Collins, L., & Flynn, C. A. (2002). Perfectionism in children: associations with depression, anxiety, and anger. *Personality and Individual Differences*, 32, 1049-1061.

Kabat-Zinn, J. (1982). An Outpatient Program in Behavioral Medicine for Chronic Pain Patients Based on the Practice of Mindfulness Meditation: Theoretical Considerations and Preliminary Results. *General Hospital Psychiatry*, 4, 33-47.

Kahol, K., Deka, M. J., Deka, V., Mayes, S., Smith, M., Ferrara, J. J., & Panchanathan, S. (2008). Effect of fatigue on psychomotor and cognitive skills. *American Journal of Surgery*, 195 (2), 195-204.

Kolb, D. A. (1984). *Experiential Learning experience as a source of learning and development*. New Jersey: Prentice Hall.

Mental Health Foundation. (n.d.). Football and Mental Health. Retrieved March 29th 2014 from

<http://www.mentalhealth.org.uk/help-information/mental-health-a-z/F/football/>

Missildine, W. H. (1963). *Your inner child of the past*. New York: Simon & Schuster.

Rice, K. G., & Preusser, K. J. (2002). The Adaptive/Maladaptive Perfectionism Scale. *Measurement and Evaluation in Counseling and Development*, 34, 201-222.

Rowan, T. (2013). *The Little Book of Mindfulness*. London: Quadrille Publishing Ltd.

Schon, D. A. (1991). *The Reflective Practitioner: How Professionals Think in Action*. Aldershot, UK: Ashgate Publishing Group.

Shafran, R., Cooper, Z., & Fairburn, C. G. (2002). Clinical perfectionism: a cognitive-behavioural analysis. *Behaviour Research and Therapy*, 40 (7), 773-791.

Stoeber, J., & Rambow, A. (2007). Perfectionism in Adolescent School Students: Relations with Motivation, Achievement, and Well-Being. *Personality and Individual Differences*, 42 (7), 1379-1389.

APPENDIX 1 – AUTHOR GUIDELINES: CLINICAL PSYCHOLOGY REVIEW



CLINICAL PSYCHOLOGY REVIEW

AUTHOR INFORMATION PACK

TABLE OF CONTENTS

• Description	p.1
• Audience	p.1
• Impact Factor	p.1
• Abstracting and Indexing	p.2
• Editorial Board	p.2
• Guide for Authors	p.3



ISSN: 0272-7358

DESCRIPTION

Clinical Psychology Review publishes substantive reviews of topics germane to **clinical psychology**. Papers cover diverse issues including: psychopathology, psychotherapy, behavior therapy, cognition and cognitive therapies, behavioral medicine, community mental health, assessment, and child development. Papers should be cutting edge and advance the science and/or practice of clinical psychology.

Reviews on other topics, such as psychophysiology, learning therapy, experimental psychopathology, and social psychology often appear if they have a clear relationship to research or practice in **clinical psychology**. Integrative literature reviews and summary reports of innovative ongoing clinical research programs are also sometimes published. Reports on individual research studies and theoretical treatises or clinical guides without an empirical base are not appropriate.

Benefits to authors

We also provide many author benefits, such as free PDFs, a liberal copyright policy, special discounts on Elsevier publications and much more. Please click here for more information on our [author services](#).

Please see our [Guide for Authors](#) for information on article submission. If you require any further information or help, please visit our support pages: <http://support.elsevier.com>

AUDIENCE

Psychologists and Clinicians in Psychopathy

IMPACT FACTOR

2012: 6.696 © Thomson Reuters Journal Citation Reports 2013

- **Ethics in publishing**

For information on Ethics in publishing and Ethical guidelines for journal publication see
Conflict of interest

<http://www.elsevier.com/publishingethics> and <http://www.elsevier.com/journal-authors/ethics>.

All authors are requested to disclose any actual or potential conflict of interest including any financial, personal or other relationships with other people or organizations within three years of beginning the submitted work that could inappropriately influence, or be perceived to influence, their work. See also <http://www.elsevier.com/conflictsofinterest>. Further information and an example of a Conflict of Interest form can be found at:

http://help.elsevier.com/app/answers/detail/a_id/286/p/7923.

Submission declaration

Submission of an article implies that the work described has not been published previously (except in the form of an abstract or as part of a published lecture or academic thesis or as an electronic preprint, see <http://www.elsevier.com/postingpolicy>), that it is not under consideration for publication elsewhere, that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out, and that, if accepted, it will not be published elsewhere including electronically in the same form, in English or in any other language, without the written consent of the copyright-holder.

Changes to authorship

This policy concerns the addition, deletion, or rearrangement of author names in the authorship of accepted manuscripts:

Before the accepted manuscript is published in an online issue: Requests to add or remove an author, or to rearrange the author names, must be sent to the Journal Manager from the corresponding author of the accepted manuscript and must include: (a) the reason the name should be added or removed, or the author names rearranged and (b) written confirmation (e-mail, fax, letter) from all authors that they agree with the addition, removal or rearrangement. In the case of addition or removal of authors, this includes confirmation from the author being added or removed. Requests that are not sent by the corresponding author will be forwarded by the Journal Manager to the corresponding author, who must follow the procedure as described above. Note that: (1) Journal Managers will inform the Journal Editors of any such requests and (2) publication of the accepted manuscript in an online issue is suspended until authorship has been agreed.

After the accepted manuscript is published in an online issue: Any requests to add, delete, or rearrange author names in an article published in an online issue will follow the same policies as noted above and result in a corrigendum.

Copyright

This journal offers authors a choice in publishing their research: Open Access and Subscription.

For Subscription articles

Upon acceptance of an article, authors will be asked to complete a 'Journal Publishing Agreement' (for more information on this and copyright, see <http://www.elsevier.com/copyright>). An e-mail will be sent to the corresponding author confirming receipt of the manuscript together with a 'Journal Publishing Agreement' form or a link to the online version of this agreement.

Subscribers may reproduce tables of contents or prepare lists of articles including abstracts for internal circulation within their institutions. Permission of the Publisher is required for resale or distribution outside the institution and for all other derivative works, including compilations and translations (please consult <http://www.elsevier.com/permissions>). If excerpts from other copyrighted works are included, the author(s) must obtain written permission from the copyright owners and credit the source(s) in the article. Elsevier has preprinted forms for use by authors in these cases: please consult <http://www.elsevier.com/permissions>.

For Open Access articles

Upon acceptance of an article, authors will be asked to complete an 'Exclusive License Agreement' (for more information see <http://www.elsevier.com/OAauthoragreement>). Permitted reuse of open access articles is determined by the author's choice of user license (see <http://www.elsevier.com/openaccesslicenses>).

Retained author rights

As an author you (or your employer or institution) retain certain rights. For more information on author rights for:

Subscription articles please see <http://www.elsevier.com/journal-authors/author-rights-and-responsibilities>.

Open access articles please see <http://www.elsevier.com/OAauthoragreement>.

Role of the funding source

You are requested to identify who provided financial support for the conduct of the research and/or preparation of the article and to briefly describe the role of the sponsor(s), if any, in study design; in the collection, analysis and interpretation of data; in the writing of the report; and in the decision to submit the article for publication. If the funding source(s) had no such involvement then this should be stated.

Funding body agreements and policies

Elsevier has established agreements and developed policies to allow authors whose articles appear in journals published by Elsevier, to comply with potential manuscript archiving requirements as specified as conditions of their grant awards. To learn more about existing agreements and policies please visit <http://www.elsevier.com/fundingbodies>.

Open access

This journal offers authors a choice in publishing their research:

Open Access

- Articles are freely available to both subscribers and the wider public with permitted reuse
- An Open Access publication fee is payable by authors or their research funder

Subscription

- Articles are made available to subscribers as well as developing countries and patient groups through our access programs (<http://www.elsevier.com/access>)

- No Open Access publication fee

All articles published Open Access will be immediately and permanently free for everyone to read and download. Permitted reuse is defined by your choice of one of the following Creative Commons user licenses:

Creative Commons Attribution (CC BY): lets others distribute and copy the article, to create extracts, abstracts, and other revised versions, adaptations or derivative works of or from an

article (such as a translation), to include in a collective work (such as an anthology), to text or data mine the article, even for commercial purposes, as long as they credit the author(s), do not represent the author as endorsing their adaptation of the article, and do not modify the article in such a way as to damage the author's honor or reputation.

Creative Commons Attribution-NonCommercial-ShareAlike (CC BY-NC-SA): for non-commercial purposes, lets others distribute and copy the article, to create extracts, abstracts and other revised versions, adaptations or derivative works of or from an article (such as a translation), to include in a collective work (such as an anthology), to text and data mine the article, as long as they credit the author(s), do not represent the author as endorsing their adaptation of the article, do not modify the article in such a way as to damage the author's honor or reputation, and license their new adaptations or creations under identical terms (CC BY-NC-SA).

Creative Commons Attribution-NonCommercial-NoDerivs (CC BY-NC-ND): for non-commercial purposes, lets others distribute and copy the article, and to include in a collective work (such as an anthology), as long as they credit the author(s) and provided they do not alter or modify the article.

To provide Open Access, this journal has a publication fee which needs to be met by the authors or their research funders for each article published Open Access. Your publication choice will have no effect on the peer review process or acceptance of submitted articles.

The publication fee for this journal is **\$1800**, excluding taxes. Learn more about Elsevier's pricing policy: <http://www.elsevier.com/openaccesspricing>.

Language (usage and editing services)

Please write your text in good English (American or British usage is accepted, but not a mixture of these). Authors who feel their English language manuscript may require editing to eliminate possible grammatical or spelling errors and to conform to correct scientific English may wish to use the English Language Editing service available from Elsevier's WebShop (<http://webshop.elsevier.com/languageediting/>) or visit our customer support site

(<http://support.elsevier.com>) for more information.

Submission

Submission to this journal proceeds totally online and you will be guided stepwise through the creation and uploading of your files. The system automatically converts source files to a single PDF file of the article, which is used in the peer-review process. Please note that even though manuscript source files are converted to PDF files at submission for the review process, these source files are needed for further processing after acceptance. All correspondence, including notification of the Editor's decision and requests for revision, takes place by e-mail removing the need for a paper trail.



Preparation

Use of word processing software

It is important that the file be saved in the native format of the word processor used. The text should be in single-column format. Keep the layout of the text as simple as possible. Most formatting codes will be removed and replaced on processing the article. In particular, do not use the word processor's options to justify text or to hyphenate words. However, do use bold face,

italics, subscripts, superscripts etc. When preparing tables, if you are using a table grid, use only one grid for each individual table and not a grid for each row. If no grid is used, use tabs, not spaces, to align columns. The electronic text should be prepared in a way very similar to that of conventional manuscripts (see also the Guide to Publishing with Elsevier:

<http://www.elsevier.com/guidepublication>). Note that source files of figures, tables and text graphics will be required whether or not you embed your figures in the text. See also the section on Electronic artwork.

To avoid unnecessary errors you are strongly advised to use the 'spell-check' and 'grammar-check' functions of your word processor.

Article structure

Manuscripts should be prepared according to the guidelines set forth in the Publication Manual of the American Psychological Association (6th ed., 2009). Of note, section headings should not be numbered.

Manuscripts should ordinarily not exceed 50 pages, *including* references and tabular material. Exceptions may be made with prior approval of the Editor in Chief. Manuscript length can often be managed through the judicious use of appendices. In general the References section should be limited to citations actually discussed in the text. References to articles solely included in meta-analyses should be included in an appendix, which will appear in the on line version of the paper but not in the print copy. Similarly, extensive Tables describing study characteristics, containing material published elsewhere, or presenting formulas and other technical material should also be included in an appendix. Authors can direct readers to the appendices in appropriate places in the text.

It is authors' responsibility to ensure their reviews are comprehensive and as up to date as possible (at least through the prior calendar year) so the data are still current at the time of publication. Authors are referred to the PRISMA Guidelines (<http://www.prisma-statement.org/statement.htm>) for guidance in conducting reviews and preparing manuscripts. Adherence to the Guidelines is not required, but is recommended to enhance quality of submissions and impact of published papers on the field.

Appendices

If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

Essential title page information

Title. Concise and informative. Titles are often used in information-retrieval systems. Avoid abbreviations and formulae where possible. **Note: The title page should be the first page of the manuscript document indicating the author's names and affiliations and the corresponding author's complete contact information.**

Author names and affiliations. Where the family name may be ambiguous (e.g., a double name), please indicate this clearly. Present the authors' affiliation addresses (where the actual work was done) below the names. Indicate all affiliations with a lower-case superscript letter immediately after the author's name and in front of the appropriate address. Provide the full postal address of each affiliation, including the country name, and, if available, the e-mail address of each author within the cover letter.

Corresponding author. Clearly indicate who is willing to handle correspondence at all stages of refereeing and publication, also post-publication. **Ensure that telephone and fax numbers (with**

country and area code) are provided in addition to the e-mail address and the complete postal address.

Present/permanent address. If an author has moved since the work described in the article was done, or was visiting at the time, a "Present address" (or "Permanent address") may be indicated as a footnote to that author's name. The address at which the author actually did the work must be retained as the main, affiliation address. Superscript Arabic numerals are used for such footnotes.

Abstract

A concise and factual abstract is required (not exceeding 200 words). This should be typed on a separate page following the title page. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separate from the article, so it must be able to stand alone. References should therefore be avoided, but if essential, they must be cited in full, without reference to the reference list.

Graphical abstract

A Graphical abstract is optional and should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership online. Authors must provide images that clearly represent the work described in the article. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: Please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. See <http://www.elsevier.com/graphicalabstracts> for examples. Authors can make use of Elsevier's Illustration and Enhancement service to ensure the best presentation of their images also in accordance with all technical requirements: [Illustration Service](#).

Highlights

Highlights are mandatory for this journal. They consist of a short collection of bullet points that convey the core findings of the article and should be submitted in a separate file in the online submission system. Please use 'Highlights' in the file name and include 3 to 5 bullet points (maximum 85 characters, including spaces, per bullet point). See <http://www.elsevier.com/highlights> for examples.

Keywords

Immediately after the abstract, provide a maximum of 6 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

Abbreviations

Define abbreviations that are not standard in this field in a footnote to be placed on the first page of the article. Such abbreviations that are unavoidable in the abstract must be defined at their first mention there, as well as in the footnote. Ensure consistency of abbreviations throughout the article.

Acknowledgements

Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List

here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

Footnotes

Footnotes should be used sparingly. Number them consecutively throughout the article, using superscript Arabic numbers. Many wordprocessors build footnotes into the text, and this feature may be used. Should this not be the case, indicate the position of footnotes in the text and present the footnotes themselves separately at the end of the article. Do not include footnotes in the Reference list.

Table footnotes

Indicate each footnote in a table with a superscript lowercase letter.

Electronic artwork

General points

- Make sure you use uniform lettering and sizing of your original artwork.
- Embed the used fonts if the application provides that option.
- Aim to use the following fonts in your illustrations: Arial, Courier, Times New Roman, Symbol, or use fonts that look similar.
- Number the illustrations according to their sequence in the text.
- Use a logical naming convention for your artwork files.
- Provide captions to illustrations separately.
- Size the illustrations close to the desired dimensions of the printed version.
- Submit each illustration as a separate file.

A detailed guide on electronic artwork is available on our website:

<http://www.elsevier.com/artworkinstructions>

You are urged to visit this site; some excerpts from the detailed information are given here.

Formats

If your electronic artwork is created in a Microsoft Office application (Word, PowerPoint, Excel) then please supply 'as is' in the native document format.

Regardless of the application used other than Microsoft Office, when your electronic artwork is finalized, please 'Save as' or convert the images to one of the following formats (note the resolution requirements for line drawings, halftones, and line/halftone combinations given below):
EPS (or PDF): Vector drawings, embed all used fonts.
TIFF (or JPEG): Color or grayscale photographs (halftones), keep to a minimum of 300 dpi.
TIFF (or JPEG): Bitmapped (pure black & white pixels) line drawings, keep to a minimum of 1000 dpi.

TIFF (or JPEG): Combinations bitmapped line/half-tone (color or grayscale), keep to a minimum of 500 dpi.

Please do not:

- Supply files that are optimized for screen use (e.g., GIF, BMP, PICT, WPG); these typically have a low number of pixels and limited set of colors;
- Supply files that are too low in resolution;
- Submit graphics that are disproportionately large for the content.

Color artwork

Please make sure that artwork files are in an acceptable format (TIFF (or JPEG), EPS (or PDF), or MS Office files) and with the correct resolution. If, together with your accepted article, you submit usable color figures then Elsevier will ensure, at no additional charge, that these figures will appear in color on the Web (e.g., ScienceDirect and other sites) regardless of whether or not these illustrations are reproduced in color in the printed version. **For color reproduction in print, you will receive information regarding the costs from Elsevier after receipt of your accepted article.** Please indicate your preference for color: in print or on the Web only.

For further information on the preparation of electronic artwork, please see <http://www.elsevier.com/artworkinstructions>.

Please note: Because of technical complications which can arise by converting color figures to 'gray scale' (for the printed version should you not opt for color in print) please submit in addition usable black and white versions of all the color illustrations.

Figure caption

Ensure that each illustration has a caption. Supply captions separately, not attached to the figure. A caption should comprise a brief title (**not** on the figure itself) and a description of the illustration. Keep text in the illustrations themselves to a minimum but explain all symbols and abbreviations used.

Tables

Number tables consecutively in accordance with their appearance in the text. Place footnotes to tables below the table body and indicate them with superscript lowercase letters. Avoid vertical rules. Be sparing in the use of tables and ensure that the data presented in tables do not duplicate results described elsewhere in the article.

References

Citations in the text should follow the referencing style used by the American Psychological Association. You are referred to the Publication Manual of the American Psychological Association, Sixth Edition, ISBN 1-4338-0559-6, copies of which may be ordered from <http://books.apa.org/books.cfm?id=4200067> or APA Order Dept., P.O.B. 2710, Hyattsville, MD 20784, USA or APA, 3 Henrietta Street, London, WC3E 8LU, UK. Details concerning this referencing style can also be found at

<http://humanities.byu.edu/linguistics/Henrichsen/APA/APA01.html>

Citation in text

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

Web references

As a minimum, the full URL should be given and the date when the reference was last accessed. Any further information, if known (DOI, author names, dates, reference to a source publication,

etc.), should also be given. Web references can be listed separately (e.g., after the reference list) under a different heading if desired, or can be included in the reference list.

References in a special issue

Please ensure that the words 'this issue' are added to any references in the list (and any citations in the text) to other articles in the same Special Issue.

Reference management software

This journal has standard templates available in key reference management packages EndNote (<http://www.endnote.com/support/enstyles.asp>) and Reference Manager

(<http://refman.com/support/rmstyles.asp>). Using plug-ins to wordprocessing packages, authors only need to select the appropriate journal template when preparing their article and the list of references and citations to these will be formatted according to the journal style which is described below.

Reference style

References should be arranged first alphabetically and then further sorted chronologically if necessary. More than one reference from the same author(s) in the same year must be identified by the letters "a", "b", "c", etc., placed after the year of publication. **References should be formatted with a hanging indent (i.e., the first line of each reference is flush left while the subsequent lines are indented).**

Examples: Reference to a journal publication: Van der Geer, J., Hanraads, J. A. J., & Lupton R. A. (2000). The art of writing a scientific article. *Journal of Scientific Communications*, 163, 51-59.

Reference to a book: Strunk, W., Jr., & White, E. B. (1979). *The elements of style*. (3rd ed.). New York: Macmillan, (Chapter 4).

Reference to a chapter in an edited book: Mettam, G. R., & Adams, L. B. (1994). How to prepare an electronic version of your article. In B.S. Jones, & R. Z. Smith (Eds.), *Introduction to the electronic age* (pp. 281-304). New York: E-Publishing Inc.

Video data

Elsevier accepts video material and animation sequences to support and enhance your scientific research. Authors who have video or animation files that they wish to submit with their article are strongly encouraged to include links to these within the body of the article. This can be done in the same way as a figure or table by referring to the video or animation content and noting in the body text where it should be placed. All submitted files should be properly labeled so that they directly relate to the video file's content. In order to ensure that your video or animation material is directly usable, please provide the files in one of our recommended file formats with a preferred maximum size of 50 MB. Video and animation files supplied will be published online in the electronic version of your article in Elsevier Web products, including ScienceDirect: <http://www.sciencedirect.com>. Please supply 'stills' with your files: you can choose any frame from the video or animation or make a separate image. These will be used instead of standard icons and will personalize the link to your video data. For more detailed instructions please visit our video instruction pages at <http://www.elsevier.com/artworkinstructions>. Note: since video and animation cannot be embedded in the print version of the journal, please provide text for both the electronic and the print version for the portions of the article that refer to this content.

AudioSlides

The journal encourages authors to create an AudioSlides presentation with their published article.

AudioSlides are brief, webinar-style presentations that are shown next to the online article on ScienceDirect. This gives authors the opportunity to summarize their research in their own words and to help readers understand what the paper is about. More information and examples are available at <http://www.elsevier.com/audioslides>. Authors of this journal will automatically receive an invitation e-mail to create an AudioSlides presentation after acceptance of their paper.

Supplementary data

Elsevier accepts electronic supplementary material to support and enhance your scientific research. Supplementary files offer the author additional possibilities to publish supporting applications, high-resolution images, background datasets, sound clips and more. Supplementary files supplied will be published online alongside the electronic version of your article in Elsevier Web products, including ScienceDirect: <http://www.sciencedirect.com>. In order to ensure that your submitted material is directly usable, please provide the data in one of our recommended file formats. Authors should submit the material in electronic format together with the article and supply a concise and descriptive caption for each file. For more detailed instructions please visit our artwork instruction pages at <http://www.elsevier.com/artworkinstructions>.

3D neuroimaging

You can enrich your online articles by providing 3D neuroimaging data in NIfTI format. This will be visualized for readers using the interactive viewer embedded within your article, and will enable them to: browse through available neuroimaging datasets; zoom, rotate and pan the 3D brain reconstruction; cut through the volume; change opacity and color mapping; switch between 3D and 2D projected views; and download the data. The viewer supports both single (.nii) and dual (.hdr and .img) NIfTI file formats. Recommended size of a single uncompressed dataset is 100 MB or less. Multiple datasets can be submitted. Each dataset will have to be zipped and uploaded to the online submission system via the '3D neuroimaging data' submission category. Please provide a short informative description for each dataset by filling in the 'Description' field when uploading a dataset. Note: all datasets will be available for downloading from the online article on ScienceDirect. If you have concerns about your data being downloadable, please provide a video instead. For more information see: <http://www.elsevier.com/3DNeuroimaging>.

Submission checklist

The following list will be useful during the final checking of an article prior to sending it to the journal for review. Please consult this Guide for Authors for further details of any item.

Ensure that the following items are present:

One author has been designated as the corresponding author with contact details:

- E-mail address
- Full postal address
- Phone numbers

All necessary files have been uploaded, and contain:

- Keywords
- All figure captions
- All tables (including title, description, footnotes)

Further considerations

- Manuscript has been 'spell-checked' and 'grammar-checked'
- References are in the correct format for this journal
- All references mentioned in the Reference list are cited in the text, and vice versa
- Permission has been obtained for use of copyrighted material from other sources (including the Web)
- Color figures are clearly marked as being intended for color reproduction on the Web (free of charge) and in print, or to be reproduced in color on the Web (free of charge) and in black-and-white in print

- If only color on the Web is required, black-and-white versions of the figures are also supplied for printing purposes

For any further information please visit our customer support site at <http://support.elsevier.com>.



After Acceptance

Use of the Digital Object Identifier

The Digital Object Identifier (DOI) may be used to cite and link to electronic documents. The DOI consists of a unique alpha-numeric character string which is assigned to a document by the publisher upon the initial electronic publication. The assigned DOI never changes. Therefore, it is an ideal medium for citing a document, particularly 'Articles in press' because they have not yet received their full bibliographic information. Example of a correctly given DOI (in URL format; here an article in the journal *Physics Letters B*):

<http://dx.doi.org/10.1016/j.physletb.2010.09.059>

When you use a DOI to create links to documents on the web, the DOIs are guaranteed never to change.

Online proof correction

Corresponding authors will receive an e-mail with a link to our online proofing system, allowing annotation and correction of proofs online. The environment is similar to MS Word: in addition to editing text, you can also comment on figures/tables and answer questions from the Copy Editor. Web-based proofing provides a faster and less error-prone process by allowing you to directly type your corrections, eliminating the potential introduction of errors. If preferred, you can still choose to annotate and upload your edits on the PDF version. All instructions for proofing will be given in the e-mail we send to authors, including alternative methods to the online version and PDF.

We will do everything possible to get your article published quickly and accurately - please upload all of your corrections within 48 hours. It is important to ensure that all corrections are sent back to us in one communication. Please check carefully before replying, as inclusion of any subsequent corrections cannot be guaranteed. Proofreading is solely your responsibility. Note that Elsevier may proceed with the publication of your article if no response is received.

Offprints

The corresponding author, at no cost, will be provided with a PDF file of the article via e-mail (the PDF file is a watermarked version of the published article and includes a cover sheet with the journal cover image and a disclaimer outlining the terms and conditions of use). For an extra charge, paper offprints can be ordered via the offprint order form which is sent once the article is accepted for publication. Both corresponding and co-authors may order offprints at any time via Elsevier's WebShop (<http://webshop.elsevier.com/myarticleservices/offprints>). Authors requiring printed copies of multiple articles may use Elsevier WebShop's 'Create Your Own Book' service to collate multiple articles within a single cover

(<http://webshop.elsevier.com/myarticleservices/offprints/myarticlesservices/booklets>).



Author Inquiries

For inquiries relating to the submission of articles (including electronic submission) please visit

this journal's homepage. For detailed instructions on the preparation of electronic artwork, please visit <http://www.elsevier.com/artworkinstructions>. Contact details for questions arising after acceptance of an article, especially those relating to proofs, will be provided by the publisher. You can track accepted articles at <http://www.elsevier.com/trackarticle>. You can also check our Author FAQs at <http://www.elsevier.com/authorFAQ> and/or contact Customer Support via <http://support.elsevier.com>.



APPENDIX 2 – AUTHOR GUIDELINES: JOURNAL OF CHILD PSYCHOLOGY AND PSYCHIATRY

Author Guidelines

Please read the Notes for Contributors guidance below for all types of contributions and styles of manuscript. There is also specific guidance available on Practitioner Reviews and Research Reviews.

Why submit your article to *The Journal of Child Psychology and Psychiatry*?

- The leading, international journal covering both child and adolescent ***psychology and psychiatry***
- Provides an interdisciplinary perspective to the multidisciplinary field of child and adolescent mental health, though publication of high-quality empirical research, clinically-relevant studies and highly cited research reviews and practitioner review articles;
- The journal reached an **all time high** in the most recent release of impact factors: Impact Factor 5.422 (2012); 5-Year Impact Factor 6.235 (2012): ISI Journal Citation Reports © Ranking: 2012: 2/65 (Psychology, Developmental); 11/121 (Psychiatry, Social Science); 7/75 (Psychology, Science) 15/135 (Psychiatry, Science)
- Ranked in the Top 20 journals in psychiatry and psychology by citation impact over the last decade (Thomson Reuters, Essential Science Indicators)
- Over 9,000 institutions with access to current content;
- Massive international readership; nearly one million articles downloaded every year (40% North America, 30% Europe, 13% Asia-Pacific)
- Quick turnaround times:
 - Decision on your paper in around 5 weeks (excluding reject without review decisions).
 - On average, articles are published online within 6 months from initial submission.
- Articles appear on Early View before the paper version is published – Click [here](#); to see the Early View articles currently available online; Epub entries on PubMed and widely indexed/abstracted, including MEDLINE, EMBASE and ISI Citation Indexes;

- Acceptance to Early View publication approx. 6 weeks; Acceptance to print publication approx. 5 months;
- Every manuscript is assigned to 1 of the 8 decision editors specialising in a particular subject domain. Acceptance rate is around 18%.
- State of the art online submission site, simple and quick to use:- <http://mc.manuscriptcentral.com/jcpp-camh>; dedicated journal Editorial Office for easy, personal contact through the peer review and editorial process; proof tracking tool for authors;

The journal encourages pre-submission enquiries, which may be sent via the Managing Editor at jcpp@acamh.org.uk.

Notes for Contributors General

Contributions from any discipline that further knowledge of the mental health and behaviour of children and adolescents are welcomed. Papers are published in English, but submissions are welcomed from any country. Contributions should be of a standard that merits presentation before an international readership.

Papers may assume either of the following forms:

- *Original articles*

These should make an original contribution to empirical knowledge, to the theoretical understanding of the subject, or to the development of clinical research and practice. Adult data are not usually accepted for publication unless they bear directly on developmental issues in childhood and adolescence. **Original articles should not exceed 6000 words, including title page, abstract, references, tables, and figures; the total word count should be given on the title page of the manuscript. Limit tables and figures to 5 or fewer double-spaced manuscript pages. It is possible to submit additional tables or figures as an Appendix for an online-only version. Manuscripts exceeding the word limit will not be accepted without permission from the Editor.**

- *Review articles*

These should survey an important area of interest within the general field. These include papers in the Annual Research Review, Research Review and Practitioner Review sections, which are usually commissioned. Word limits for review papers are stated at the time of commissioning.

Authors' professional and ethical responsibilities

Submission of a paper to JCPP will be held to imply that it represents an original contribution not previously published (except in the form of an abstract or preliminary report); that it is not being considered for publication elsewhere; and that, if accepted by the Journal, it will not be published elsewhere in the same form, in any language, without the consent of the Editors. When submitting a manuscript, authors should state in a covering letter whether they have currently in press, submitted or in preparation any other papers that are based on the same data set, and, if so, provide details for the Editors.

Ethics

Authors are reminded that the *Journal* adheres to the ethics of scientific publication as detailed in the *Ethical principles of psychologists and code of conduct* (American Psychological Association, 2010). These principles also imply that the piecemeal, or fragmented publication of small amounts of data from the same study is not acceptable. The Journal also generally conforms to the Uniform Requirements for Manuscripts of the International Committee of Medical Journal Editors (ICJME) and is also a member and subscribes to the principles of the Committee on Publication Ethics (COPE).

Authorship

Authorship credit should be given only if substantial contribution has been made to the following:

- Conception and design, or collection, analysis and interpretation of data
- Drafting the article or revising it critically for important intellectual content, and final approval of the version to be published

The corresponding author must ensure that there is no one else who fulfils the criteria who is not included as an author. Each author is required to have participated sufficiently in the work to take public responsibility for the content.

Conflict of interest

All submissions to JCPP require a declaration of interest. This should list fees and grants from, employment by, consultancy for, shared ownership in, or any close relationship with, an organisation whose interests, financial or otherwise, may be affected by the publication of the paper. This pertains to all authors, and all conflict of interest should be noted on page 1 of the submitted manuscript. Where there is no conflict of interest, this should also be stated.

2010 JCPP Editor Conflicts of Interest Statement: this can be found by clicking [here](#). The JCPP Editor Conflicts of Interest Statement is published annually in issue 1 of each volume.

Note to NIH Grantees

Pursuant to NIH mandate, Wiley-Blackwell will post the accepted version of contributions authored by NIH grant-holders to PubMed Central upon acceptance. This accepted version will be made publicly available 12 months after publication. For further information, see www.wiley.com/go/nihmandate.

Informed consent and ethics approval

Authors must ensure that all research meets these ethical guidelines and affirm that the research has received permission from a stated Research Ethics Committee (REC) or Institutional Review Board (IRB) , including adherence to the legal requirements of the study country. Within the Methods section, authors should indicate that 'informed consent' has been appropriately obtained and state the name of the REC, IRB or other body that provided ethical approval. When submitting a manuscript, the manuscript page number where these statements appear should be given.

Recommended guidelines and standards

The Journal requires authors to conform to CONSORT 2010 (see CONSORT Statement) in relation to the reporting of randomised controlled clinical trials; also recommended is the Extensions of the CONSORT Statement with regard to cluster randomised controlled trials). In particular, authors must include in their paper a flow chart illustrating the progress of subjects through the trial (CONSORT diagram) and the CONSORT checklist. The flow diagram should appear in the main paper, the checklist in the online Appendix. Trial registry name, registration identification number, and the URL for the registry should also be included at the end of the methods section of the Abstract and again in the Methods section of the main text, and in the online manuscript submission. Trials should be registered in one of the ICJME-recognised trial registries:

<http://www.controlled-trials.com/isrctn/>

Australian Clinical Trials Registry <http://actr.ctc.usyd.edu.au>

Clinical Trials <http://www.clinicaltrials.gov>

ISRCTN Register <http://isrctn.org>

Netherlands Trial Register <http://www.trialregister.nl/trialreg/index.asp>

UMIN Clinical Trials Registry <http://www.umin.ac.jp/ctr>

Manuscripts reporting systematic reviews or meta-analyses should conform to the PRISMA Statement. The Equator Network is recommended as a resource on the above and other reporting guidelines.

Access to data

If the study includes original data, at least one author must confirm that he or she had full access to all the data in the study, and takes responsibility for the integrity of the data and the accuracy of the data analysis.

CrossCheck

An initiative started by *CrossRef* to help its members actively engage in efforts to prevent scholarly and professional plagiarism. The journal to which you are submitting your manuscript employs a plagiarism detection system. By submitting your manuscript to this journal you accept that your manuscript may be screened for plagiarism against previously published works.

Manuscript preparation and submission

Papers should be submitted online. For detailed instructions please go to: <http://mc.manuscriptcentral.com/jcpp-camh> Previous users can *Check for existing account*. New users should *Create a new account*. Help with submitting online can be obtained from Piers Allen at ACAMH (E-mail: Piers.Allen@acamh.org.uk)

1. The manuscript should be double spaced throughout, including references and tables. Pages should be numbered consecutively. The preferred file formats are MS Word or WordPerfect, and should be PC compatible. If using other packages the file should be saved as Rich Text Format or Text only.
2. Papers should be concise and written in English in a readily understandable style. Care should be taken to avoid racist or sexist language, and statistical presentation should be clear and unambiguous. The *Journal* follows the style recommendations given in the *Publication manual of the American Psychological Association* (5th edn., 2001).
3. The *Journal* is not able to offer a translation service, but, authors for whom English is a second language may choose to have their manuscript professionally edited before submission to improve the English. A list of independent suppliers of editing services can be found at http://authorservices.wiley.com/bauthor/english_language.asp. All services are paid for and arranged by the author, and use of one of these services does not guarantee acceptance or preference for publication.

Layout

Title: The first page of the manuscript should give the title, name(s) and short address(es) of author(s), and an abbreviated title (for use as a running head) of up to 80 characters.

Abstract: The abstract should not exceed 300 words and should be structured in the following way with bold marked headings: Background; Methods; Results; Conclusions; Keywords; Abbreviations. The abbreviations will apply where authors are using acronyms for tests or abbreviations not in common usage.

Key points: All papers should include a text box at the end of the manuscript outlining the four to five Key (bullet) points of the paper. These should briefly (80-120 words) outline what's known, what's new, and what's clinically relevant.

Headings: Articles and research reports should be set out in the conventional format: Methods, Results, Discussion and Conclusion. Descriptions of techniques and methods should only be given in detail when they are unfamiliar. There should be no more than three (clearly marked) levels of subheadings used in the text.

Acknowledgements: These should appear at the end of the main text, before the References.

Correspondence to. Full name, address, phone, fax and email details of the corresponding author should appear at the end of the main text, before the References.

References

The *JCPP* follows the text referencing style and reference list style detailed in the *Publication manual of the American Psychological Association* (5th edn.)ⁱ.

References in text: References in running text should be quoted as follows: Smith and Brown (1990), or (Smith, 1990), or (Smith, 1980, 1981a, b), or (Smith & Brown, 1982), or (Brown & Green, 1983; Smith, 1982).

For up to five authors, all surnames should be cited in the first instance, with subsequent occurrences cited as et al., e.g. Smith et al. (1981) or (Smith et al., 1981). For six or more authors, cite only the surname of the first author followed by et al. However, all authors should be listed in the Reference List. Join the names in a multiple author citation in running text by the word 'and'. In parenthetical material, in tables, and in the References List, join the names by an ampersand (&). References to unpublished material should be avoided.

Reference list: Full references should be given at the end of the article in alphabetical order, and not in footnotes. **Double spacing must be used.**

References to journals should include the authors' surnames and initials, the year of publication, the full title of the paper, the full name of the journal, the volume number, and inclusive page numbers. Titles of journals must not be abbreviated and should be italicised.

References to books should include the authors' surnames and initials, the year of publication, the full title of the book, the place of publication, and the publisher's name.

References to articles, chapters and symposia contributions should be cited as per the examples below:

Kiernan, C. (1981). Sign language in autistic children. *Journal of Child Psychology and Psychiatry*, 22, 215-220.

Thompson, A. (1981). *Early experience: The new evidence*. Oxford: Pergamon Press.

Jones, C.C., & Brown, A. (1981). Disorders of perception. In K. Thompson (Ed.), *Problems in early childhood* (pp. 23-84). Oxford: Pergamon Press.

Use Ed.(s) for Editor(s); edn. for edition; p.(pp.) for page(s); Vol. 2 for Volume 2.

Tables and Figures

All Tables and Figures should appear at the end of main text and references, but have their intended position clearly indicated in the manuscript. They should be constructed so as to be intelligible without reference to the text. Any lettering or line work should be able to sustain reduction to the final size of reproduction. Tints and complex shading should be avoided and colour should not be used unless essential. Figures should be originated in a drawing package and saved as TIFF, EPS, or PDF files. Further information about supplying electronic artwork can be found in the Wiley-Blackwell electronic artwork guidelines at

http://authorservices.wiley.com/prep_illust.asp

Nomenclature and symbols

Each paper should be consistent within itself as to nomenclature, symbols and units. When referring to drugs, give generic names, not trade names. Greek characters should be clearly indicated.

Manuscript processing

Refereeing

The *Journal* has a policy of anonymous peer review and the initial refereeing process seldom requires more than three months. Most manuscripts will require some revision by the authors before final acceptance. The Editorial decision on the suitability of a manuscript for publication is final.

Proofs

Proofs will be sent to the designated author only. These will be sent via email as a PDF file, and therefore a current email address must be provided with the manuscript. Only typographical or factual errors may be changed at proof stage. The publisher reserves the right to charge authors for correction of non-typographical errors.

Offprints

The designated author will receive a PDF file of their article. The designated author should undertake to forward copies of the PDF file to their co-authors.

Copyright

Exclusive Licence Form

Authors will be required to sign an Exclusive Licence Form (ELF) for all papers accepted for publication. Please note that signing the Exclusive Licence Form does not affect ownership of copyright in the material.

Download the Exclusive Licence Form [here](#)

Advice for NIH authors

JCPP and Wiley-Blackwell will support NIH funded authors by posting the accepted version of articles by NIH grant-holders to PubMed Central upon acceptance by the journal. The accepted version is the version that incorporates all amendments made during peer review, but prior to the publisher's copy-editing and typesetting. This accepted version will be made publicly available 12 months after publication. The NIH mandate applies to all articles based on research that has been wholly or partially funded by the NIH and that are accepted for publication on or after April 7, 2008.

Please let the editorial office know that you are an NIH-funded author when you submit your article.

Alternatively, any author wishing to publish their article open access can do so using our author-pays Online Open service – please see details below.

Online Open

OnlineOpen is available to authors of primary research articles who wish to make their article available to non-subscribers on publication, or whose funding agency requires grantees to archive the final version of their article. With OnlineOpen, the author, the author's funding agency, or the author's institution pays a fee to ensure that the article is made available to non-subscribers upon publication via Wiley Online Library, as well as deposited in the funding agency's preferred archive. For the full list of terms and conditions, please visit the OnlineOpen homepage.

Any authors wishing to send their paper OnlineOpen will be required to complete the payment online form

Prior to acceptance there is no requirement to inform an Editorial Office that you intend to publish your paper OnlineOpen if you do not wish to. All OnlineOpen articles are treated in the same way as any other article. They go through the journal's standard peer-review process and will be accepted or rejected based on its own merit.

Liability

Whilst every effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinion or statement appears in this journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the sole responsibility of the contributor or advertiser concerned. Accordingly, the publishers, the editorial board and editors, and their respective employees, officers and agents accept no responsibility or liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement.

APPENDIX 3 – AUTHOR GUIDELINES: REFLECTIVE PRACTICE

Instructions for authors

SCHOLARONE MANUSCRIPTS™

This journal uses ScholarOne Manuscripts (previously Manuscript Central) to peer review manuscript submissions. Please read the guide for ScholarOne authors before making a submission. Complete guidelines for preparing and submitting your manuscript to this journal are provided below.

Use these instructions if you are preparing a manuscript to submit to *Reflective Practice*. To explore our journals portfolio, visit <http://www.tandfonline.com/> , and for more author resources, visit our Author Services website.

Reflective Practice considers all manuscripts on the strict condition that

- the manuscript is your own original work, and does not duplicate any other previously published work, including your own previously published work.
- the manuscript has been submitted only to *Reflective Practice* ; it is not under consideration or peer review or accepted for publication or in press or published elsewhere.
- the manuscript contains nothing that is abusive, defamatory, libellous, obscene, fraudulent, or illegal.

Please note that *Reflective Practice* uses CrossCheck™ software to screen manuscripts for unoriginal material. By submitting your manuscript to *Reflective Practice* you are agreeing to any necessary originality checks your manuscript may have to undergo during the peer-review and production processes.

Any author who fails to adhere to the above conditions will be charged with costs which *Reflective Practice* incurs for their manuscript at the discretion of *Reflective Practice* 's Editors and Taylor & Francis, and their manuscript will be rejected.

This journal is compliant with the Research Councils UK OA policy. Please see the licence options and embargo periods here .

Contents List

Manuscript preparation

1. General guidelines
2. Style guidelines
3. Figures
4. Publication charges
 - Submission fee
 - Page charges
 - Colour charges
5. Reproduction of copyright material
6. Supplemental online material

Manuscript submission

Copyright and authors' rights

Free article access

Reprints and journal copies

Open access

Manuscript preparation

1. General guidelines

- Manuscripts are accepted in English. Any consistent spelling and punctuation styles may be used. Please use single quotation marks, except where 'a quotation is "within" a quotation'. Long quotations of words or more should be indented xxIndentedQuoteMarks quotation marks. The journal welcomes shorter pieces on: recent initiatives; reports of work in progress; proposals for collaborative research; theoretical positions; knowledge reported in poetic, diagrammatic and narrative form.
- A typical manuscript will not exceed 6000 words including tables, references and captions. Manuscripts that greatly exceed this will be critically reviewed with respect to length. Authors should include a word count with their manuscript.
- Manuscripts should be compiled in the following order: title page; abstract; keywords; main text; acknowledgements; references; appendices (as appropriate); table(s) with caption(s) (on individual pages); figure caption(s) (as a list).
- Abstracts of words are required for all manuscripts submitted.
- Each manuscript should have to keywords .
- Search engine optimization (SEO) is a means of making your article more visible to anyone who might be looking for it. Please consult our guidance here .
- Section headings should be concise.

- All authors of a manuscript should include their full names, affiliations, postal addresses, telephone numbers and email addresses on the cover page of the manuscript. One author should be identified as the corresponding author. Please give the affiliation where the research was conducted. If any of the named co-authors moves affiliation during the peer review process, the new affiliation can be given as a footnote. Please note that no changes to affiliation can be made after the manuscript is accepted. Please note that the email address of the corresponding author will normally be displayed in the article PDF (depending on the journal style) and the online article.
- All persons who have a reasonable claim to authorship must be named in the manuscript as co-authors; the corresponding author must be authorized by all co-authors to act as an agent on their behalf in all matters pertaining to publication of the manuscript, and the order of names should be agreed by all authors.
- Please supply a short biographical note for each author.
- Please supply all details required by any funding and grant-awarding bodies as an Acknowledgement on the title page of the manuscript, in a separate paragraph, as follows:
 - *For single agency grants:* "This work was supported by the [Funding Agency] under Grant [number xxxx]."
 - *For multiple agency grants:* "This work was supported by the [Funding Agency 1] under Grant [number xxxx]; [Funding Agency 2] under Grant [number xxxx]; and [Funding Agency 3] under Grant [number xxxx]."
- Authors must also incorporate a Disclosure Statement which will acknowledge any financial interest or benefit they have arising from the direct applications of their research.
- For all manuscripts non-discriminatory language is mandatory. Sexist or racist terms must not be used.
- Authors must adhere to SI units . Units are not italicised.
- When using a word which is or is asserted to be a proprietary term or trade mark, authors must use the symbol ® or TM.

2. Style guidelines

- Description of the Journal's article style.
- Description of the Journal's reference style.
- Guide to using mathematical scripts and equations.
- Word templates are available for this journal. If you are not able to use the template via the links or if you have any other template queries, please contact authortemplate@tandf.co.uk.

3. Figures

- Please provide the highest quality figure format possible. Please be sure that all imported scanned material is scanned at the appropriate resolution: 1200 dpi for line art, 600 dpi for grayscale and 300 dpi for colour.
- Figures must be saved separate to text. Please do not embed figures in the manuscript file.
- Files should be saved as one of the following formats: TIFF (tagged image file format), PostScript or EPS (encapsulated PostScript), and should contain all the necessary font information and the source file of the application (e.g. CorelDraw/Mac, CorelDraw/PC).

- All figures must be numbered in the order in which they appear in the manuscript (e.g. Figure 1, Figure 2). In multi-part figures, each part should be labelled (e.g. Figure 1(a), Figure 1(b)).
- Figure captions must be saved separately, as part of the file containing the complete text of the manuscript, and numbered correspondingly.
- The filename for a graphic should be descriptive of the graphic, e.g. Figure1, Figure2a.

4. Publication charges

Submission fee

There are no page charges for *Reflective Practice* .

Colour charges

Colour figures will be reproduced in colour in the online edition of the journal free of charge. If it is necessary for the figures to be reproduced in colour in the print version, a charge will apply. Charges for colour pages in print are £250 per figure (\$395 US Dollars; \$385 Australian Dollars; 315 Euros). For more than 4 colour figures, figures 5 and above will be charged at £50 per figure (\$80 US Dollars; \$75 Australian Dollars; 63 Euros).

Depending on your location, these charges may be subject to Value Added Tax .

5. Reproduction of copyright material

If you wish to include any material in your manuscript in which you do not hold copyright, you must obtain written permission from the copyright owner, prior to submission. Such material may be in the form of text, data, table, illustration, photograph, line drawing, audio clip, video clip, film still, and screenshot, and any supplemental material you propose to include. This applies to direct (verbatim or facsimile) reproduction as well as “derivative reproduction” (where you have created a new figure or table which derives substantially from a copyrighted source).

You must ensure appropriate acknowledgement is given to the permission granted to you for reuse by the copyright holder in each figure or table caption. You are solely responsible for any fees which the copyright holder may charge for reuse.

The reproduction of short extracts of text, excluding poetry and song lyrics, for the purposes of criticism may be possible without formal permission on the basis that the quotation is reproduced accurately and full attribution is given.

For further information and FAQs on the reproduction of copyright material, please consult our Guide .

6. Supplemental online material

Authors are encouraged to submit animations, movie files, sound files or any additional information for online publication.

Manuscript submission

All submissions should be made online at the *Reflective Practice* Scholar One Manuscripts website. New users should first create an account. Once logged on to the site, submissions should be made via the Author Centre. Online user guides and access to a helpdesk are available on this website.

Manuscripts may be submitted in any standard editable format, including Word and EndNote. These files will be automatically converted into a PDF file for the review process. LaTeX files should be converted to PDF prior to submission because ScholarOne Manuscripts is not able to convert LaTeX files into PDFs directly. All LaTeX source files should be uploaded alongside the PDF.

Copyright and authors' rights

To assure the integrity, dissemination, and protection against copyright infringement of published articles, you will be asked to assign us, via a Publishing Agreement, the copyright in your article. Your Article is defined as the final, definitive, and citable Version of Record, and includes: (a) the accepted manuscript in its final form, including the abstract, text, bibliography, and all accompanying tables, illustrations, data; and (b) any supplemental material hosted by Taylor & Francis. Our Publishing Agreement with you will constitute the entire agreement and the sole understanding between you and us; no amendment, addendum, or other communication will be taken into account when interpreting your and our rights and obligations under this Agreement.

Free article access

As an author, you will receive free access to your article on Taylor & Francis Online. You will be given access to the *My authored works* section of Taylor & Francis Online, which shows you all your published articles. You can easily view, read, and download your published articles from there. In addition, if someone has cited your article, you will be able to see this information. We are committed to promoting and increasing the visibility of your article and have provided guidance on how you can help. Also within *My authored works*, author eprints allow you as an author to quickly and easily give anyone free access to the electronic version of your article so that your friends and contacts can read and download your published article for free. This applies to all authors (not just the corresponding author).

Reprints and journal copies

Corresponding authors can receive a complimentary copy of the issue containing their article. Article reprints can be ordered through Rightslink® when you receive your proofs. If you have any queries about reprints, please contact the Taylor & Francis Author Services team at reprints@tandf.co.uk . To order a copy of the issue containing your article, please contact our Customer Services team at Adhoc@tandf.co.uk

Open Access

Taylor & Francis Open Select provides authors or their research sponsors and funders with the option of paying a publishing fee and thereby making an article permanently available for free online access – *open access* – immediately on publication to anyone, anywhere, at any time. This option is made available once an article has been accepted in peer review.

Last updated 04/11/2013



APPENDIX 4 – QUALITY CHECKLIST

<u>Area</u>	<u>Quality Check Points</u>	Yes	Partially	Unclear	No	N.A.
Aims/introduction	Is the hypothesis/aim/objective of the study clearly described?					
	Are the main outcomes to be measured clearly described in the Introduction or Methods section?					
Study Population	Was ethical approval obtained?					
	Was informed consent obtained?					
	Is the study population representative of all users, actual and eligible, who may be included in the study?					
	Are inclusion and exclusion criteria definitively outlined?					
	Are the characteristics of the patients included in the study clearly described?					
Internal Validity Bias	Was an attempt made to blind study subjects to the intervention they have received?					
	Was an attempt made to blind those measuring the main outcomes of the intervention?					
	Was compliance with the intervention/s reliable?					
Selection Bias	Does the design or analysis control account for important confounding and modifying variables?					
	Were the participants recruited in an acceptable way?					
	Is the choice of population bias-free?					
Allocation/Confounding Variables	Were the patients in different intervention groups (trials and cohort studies) or were the cases and controls (case-control studies) recruited from the same population?					
	Was treatment adequately randomised?					

Data Collection/Measures	Are data collection methods clearly described?					
	Were the main outcome measures used accurate (valid & reliable)?					
	Is the instrument included in the publication?					
Design	Did the authors use an appropriate method to answer their question?					
	Are the interventions of interest clearly described?					
	Is the research methodology clearly stated at a level of detail that would allow its replication?					
	Are the methods of allocation clearly described?					
	Was the study apparently free of other problems that could put it at a high risk of bias?					
Results	Have actual probability values been reported (e.g. 0.035 rather than <0.05) for the main outcomes except where the probability value is less than 0.001?					
	Are the main findings of the study clearly described?					
	Were the statistical tests used to assess the main outcomes appropriate?					
	Did the study have sufficient power to detect a clinically important effect where the probability value for a difference being due to chance is less than 5%?					
	Are all the results clearly outlined?					
	Are confounding variables accounted for?					
	Are adverse effects reported?					
Discussion	Was the analysis carried out in a way it answered the research question?					
	Do the conclusions accurately reflect the analysis?					
	Are suggestions provided for further areas to research?					

APPENDIX 5 – QUALITY ANALYSIS RESULTS

Quality Analysis		Papers Systematically Reviewed					
<u>Area of Analysis</u>	<u>Quality Checklist Points of Analysis</u>	Arpin-Cribbie et al. (2012)	Arpin-Cribbie et al. (2008)	Pleva & Wade, (2006)	Radhu et al. (2013)	Riley et al. (2007)	DiBartolo et al. (2001)
Aims/Introduction	Is the hypothesis/aim/objective of the study clearly described?	Yes	Yes	Yes	Yes	Yes	Yes
	Are the main outcomes to be measured clearly described in the Introduction or Methods section?	Yes	Yes	Yes	Yes	Yes	Yes
Study Population	Was ethical approval obtained?	Yes	Unclear	Unclear	Yes	Unclear	Unclear
	Was informed consent obtained?	Yes	Yes	Unclear	Yes	Unclear	Yes
	Is the study population representative of all users, actual and eligible, who may be included in the study?	Yes	Yes	Yes	Yes	Yes	No
	Are inclusion/exclusion criteria definitively outlined?	Partially	Yes	Yes	Yes	Partially	Partially
	Are the characteristics of the patients included in the study clearly described?	Yes	Partially	Yes	Yes	Partially	Partially
Internal Validity Bias	Was an attempt made to blind study subjects to the intervention they have received?	Yes	Yes	Yes	Yes	Yes	Unclear
	Was an attempt made to blind those measuring the main outcomes of the intervention?	Yes	Unclear	Unclear	Yes	Unclear	Unclear
	Was compliance with the intervention/s reliable?	Unclear	Yes	Partially	Partially	Yes	Unclear
Selection Bias	Does the design or analysis control account for important confounding and modifying variables?	Yes	Yes	Unclear	Yes	Unclear	Partially
	Were the participants recruited in an acceptable way?	Yes	Yes	Yes	Yes	Yes	Partially
	Is the choice of population bias-free?	Partially	Partially	Partially	No	Partially	No
Allocation/Confounding Variables	Were the patients in different intervention groups (trials & cohort studies) or were the cases and controls (case-control studies) recruited from the same population?	Yes	Yes	Yes	Yes	Yes	Yes
	Was treatment adequately randomised?	Yes	Yes	Yes	Yes	Yes	Unclear

Data Collection/ Measures	Are data collection methods clearly described?	Yes	Partially	Yes	Yes	Partially	Yes
	Were the main outcome measures used accurate (valid and reliable)?	Yes	Partially	Yes	Partially	Partially	Partially
	Are the instruments included in the publication?	No	No	No	No	No	No
Design	Did the authors use an appropriate method to answer their question?	Yes	Yes	Yes	Yes	Yes	Yes
	Are the interventions of interest clearly described?	Partially	Yes	Partially	Yes	Partially	Yes
	Is the research methodology clearly stated at a level of detail that would allow its replication?	Partially	Yes	Partially	Partially	Partially	Partially
	Are the methods of allocation clearly described?	Yes	Yes	Partially	Yes	Partially	No
	Was the study apparently free of other problems that could put it at a high risk of bias?	Yes	Yes	Yes	Yes	Partially	Partially
Results	Have actual probability values been reported (e.g. 0.035 rather than <0.05) for the main outcomes except where the probability value is less than 0.001?	Yes	Yes	Yes	Yes	No	No
	Are the main findings of the study clearly described?	Yes	Partially	Yes	Yes	Yes	Yes
	Were the statistical tests used to assess the main outcomes appropriate?	Yes	Yes	Yes	Yes	Yes	Yes
	Did the study have sufficient power to detect a clinically important effect where the probability value for a difference being due to chance is less than 5%?	Yes	Yes	Yes	Yes	Yes	Yes
	Are all the results clearly outlined?	Yes	Partially	Yes	Yes	Yes	Yes
	Are confounding variables accounted for?	Unclear	Yes	Unclear	Yes	Partially	Partially
	Are adverse effects reported?	Unclear	Unclear	Yes	Unclear	Unclear	Yes
Discussion	Was the analysis carried out in such a way it answered the research question?	Yes	Yes	Yes	Yes	Yes	Yes
	Do the conclusions accurately reflect the analysis?	Yes	Yes	Yes	Yes	Yes	Yes
	Are suggestions provided for further areas to research?	Yes	Yes	Yes	Partially	No	Partially
Total	Total and Percentage Mark from Quality Analysis	54/66 = 82%	52/66 = 79%	49/66 = 74%	56/66 = 85%	40/66 = 61%	37/66 = 56%

Quality Analysis		Papers Systematically Reviewed					
<u>Area of Analysis</u>	<u>Quality Checklist Points of Analysis</u>	Kutlesa & Arthur (2008)	Steel et al. (2012)	Egan & Hine (2008)	Ferguson & Rodway (1994)	Glover et al. (2007)	Hirsch & Hayward (1998)
Aims/Introduction	Is the hypothesis/aim/objective of the study clearly described?	Yes	Yes	Yes	Partially	Yes	No
	Are the main outcomes to be measured clearly described in the Introduction or Methods section?	Yes	Yes	Yes	Partially	Yes	Partially
Study Population	Was ethics approval obtained?	Unclear	Unclear	Unclear	Unclear	Unclear	Unclear
	Was informed consent obtained?	Unclear	Unclear	Unclear	Partially	Unclear	Unclear
	Is the study population representative of all users, actual and eligible, who might be included in the study?	Yes	Yes	Yes	Yes	Yes	Yes
	Are inclusion and exclusion criteria definitively outlined?	No	Yes	Yes	Yes	Yes	No
	Are the characteristics of the patients included in the study clearly described?	Yes	Partially	Yes	Yes	Yes	Yes
Internal Validity Bias	Was an attempt made to blind study subjects to the intervention they have received?	N.A.	Yes	N.A.	N.A.	N.A.	N.A.
	Was an attempt made to blind those measuring the main outcomes of the intervention?	N.A.	Unclear	N.A.	N.A.	N.A.	N.A.
	Was compliance with the intervention/s reliable?	No	Yes	Yes	Unclear	Yes	Yes
Selection Bias	Does the design or analysis control account for important confounding and modifying variables?	Yes	Yes	Yes	Yes	Yes	Partially
	Were the participant/s recruited in an acceptable way?	Yes	Yes	Yes	Yes	Yes	Yes
	Is the choice of population bias-free?	No	Partially	Partially	Partially	Partially	Partially
Allocation/Confounding Variables	Were the patients in different intervention groups (trials and cohort studies) or were the cases and controls (case-control studies) recruited from the same population?	No	Yes	N.A.	N.A.	N.A.	N.A.
	Was treatment adequately randomised?	No	Yes	N.A.	N.A.	N.A.	N.A.

Data Collection/ Measures	Are data collection methods clearly described?	Yes	Yes	Yes	Partially	Yes	Partially
	Were the main outcome measures used accurate (valid and reliable)?	Yes	Yes	Yes	Partially	Yes	Yes
	Are the instruments included in the publication?	No	No	No	No	No	No
Design	Did the authors use an appropriate method to answer their question?	Yes	Yes	Yes	Yes	Yes	Yes
	Are the interventions of interest clearly described?	Yes	Yes	Yes	Partially	Yes	Yes
	Is the research methodology clearly stated at a level of detail that would allow its replication?	Yes	Yes	Yes	Partially	Yes	Partially
	Are the methods of allocation clearly described?	Yes	Yes	N.A.	N.A.	N.A.	N.A.
	Was the study apparently free of other problems that could put it at a high risk of bias?	Partially	Yes	Yes	Yes	Yes	Yes
Results	Have actual probability values been reported (e.g. 0.035 rather than <0.05) for the main outcomes except where the probability value is less than 0.001?	Yes	Yes	N.A.	N.A.	Partially	N.A.
	Are the main findings of the study clearly described?	Yes	Yes	Yes	Yes	Yes	Partially
	Were the statistical tests used to assess the main outcomes appropriate?	Yes	Yes	Yes	Partially	Yes	N.A.
	Did the study have sufficient power to detect a clinically important effect where the probability value for a difference being due to chance is less than 5%?	Yes	Yes	N.A.	N.A.	Yes	Unclear
	Are all the results clearly outlined?	Yes	Yes	Yes	Yes	Yes	No
	Are confounding variables accounted for?	Yes	No	Yes	Partially	Yes	Yes
	Are adverse effects reported?	Yes	Yes	Yes	Yes	Unclear	Yes
Discussion	Was the analysis carried out in such a way it answered the research question?	Yes	Yes	Yes	Yes	Yes	No
	Do the conclusions accurately reflect the analysis?	Yes	Yes	Yes	Yes	Yes	Partially
	Are suggestions provided for further areas to research?	Partially	Yes	Yes	Yes	Partially	No
Total	Total and Percentage Mark from Quality Analysis	44/62 = 71%	54/66 = 82%	45/52 = 87%	36/52 = 69%	45/56 = 80%	27/52 = 52%

APPENDIX 6 – ETHICAL APPROVAL

The Relationship between Multidimensional Perfectionism, Self-esteem, Self-criticism, and Mood in Primary School Children
P13788

REGISTRY RESEARCH UNIT ETHICS REVIEW FEEDBACK FORM

(Review feedback should be completed within 10 working days)

Name of applicant: Damian Wilde

Faculty/School/Department: [Faculty of Health and Life Sciences] Psychology & Behavioural Sciences

Research project title: The Relationship between Multidimensional Perfectionism, Self-esteem, Self-criticism, and Mood in Primary School Children

Comments by the reviewer

1. Evaluation of the ethics of the proposal:

The proposal is sound.

2. Evaluation of the participant information sheet and consent form:

These are generally good and only need minor amendment. As noted by LT add an area for participant codes to the PIS and information on external sources of support. Add withdrawal information to the PIS and consent form. On the parental consent form add an email contact and correct the spelling of anonymised.

3. Recommendation:

(Please indicate as appropriate and advise on any conditions. If there are any conditions, the applicant will be required to resubmit his/her application and this will be sent to the same reviewer).

☒

Approved - no conditions attached

☐

Approved with minor conditions (no need to re-submit)

☐

Conditional upon the following – please use additional sheets if necessary (please re-submit application)

☐

Rejected for the following reason(s) – please use other side if necessary

☐

Not required

Name of reviewer: Anonymous.....

Date: 10/01/2014

APPENDIX 7 – RESEARCH LETTER FOR SCHOOLS

Coventry University
Priory Street, Coventry CV1 5FB
Telephone 024 7688 8328
Fax 024 7688 8702

Programme Director
Doctorate Course in Clinical Psychology
Dr Eve Knight
BSc Clin.Psy.D. CPsychol

THE UNIVERSITY OF
WARWICK



17th January 2014

Dear Head Teacher,

I am writing to see if your school would be interested in taking part in my research study. My name is Damian Wilde and I am a Trainee Clinical Psychologist based at Coventry University and The University of Warwick. I am employed by Coventry and Warwickshire NHS Partnership Trust, working clinically and I attend university completing a clinical psychology doctorate. As part of the award of the doctorate I have to complete a piece of research. My area of investigation is:

The Relationship between Multidimensional Perfectionism, Self-esteem, Self-criticism and Mood in Primary School Children

Information and Rationale for the Research

I previously worked as a primary school teacher and am interested in how children strive for success and the impact of this. Much of the existing research with adults indicates that those who strive for success and do not fear failure, may feel motivated, may have high self-esteem and may perform well academically. This type of perfectionism is termed adaptive perfectionism and many researchers argue it can be beneficial. The unhelpful type of perfectionism - maladaptive perfectionism, is associated with low self-esteem and may hinder academic progress. Research with adolescents and adults indicates this type of perfectionism may also be linked with factors such as low mood and anxiety.

However, little is known about perfectionism and how this may be linked to personality characteristics such as self-esteem. Gaps in the research field indicate more research with children would be useful. More knowledge and information may increase our understanding of how perfectionism affects children of school age. I am researching the 9-11 year age group.

What's involved in the Study?

The study requires each child to complete four different questionnaires. A child will be presented with various statements, such as 'once I do well at something, I am pleased'. Each statement has a choice of responses, for example, 'agree' or 'disagree'. There are normally four-five response options; with a child placing a tick in a box to the option which best describes them.

If you agreed to be a participating school and parental and child consent had been gained, all children who had given consent could (depending on the school's convenience) complete the data set together and so would hopefully ensure only one visit to your school.

Research Team

I am the principal researcher for the study and I have three supervisors based at Coventry University. Jacky Knibbs is a clinical psychologist and tutor on the clinical psychology doctorate course. Dr Ian Hume is a research tutor on the clinical psychology doctorate course. And Dr Laura Taylor is associate head of the psychology and behavioural sciences department.

Dean of Faculty of Health and Life Sciences

Dr Linda Merriman Mphil PhD DpodM CertEd Coventry University Priory Street Coventry CV1 5FB Tel 024 7679 5805

Head of Department of Psychology

Professor James Tresilian BSc PhD University of Warwick Coventry CV4 7AL Tel 024 7657 3009

1

www.coventry.ac.uk

Ethics, Confidentiality and Consent

If you give permission for your school to take part, child and parental consent would be required. I have compiled information and consent letters for parents and children and data collection would only commence if consent had been given by parents and children. All photocopying and postal costs would be incurred by the university.

Ethical approval for the research has been granted by Coventry University. Ethical research guidelines recommended by the British Psychological Society (BPS) would be strictly adhered to. If at any stage (if consent has been gained) children wanted to withdraw from the study, their participation would be immediately stopped and data collected from them would not be used. What is involved in completing the questionnaires will be clearly explained to children (pupil information sheet provided) and they will be debriefed afterwards (debrief sheet provided) to ensure their wellbeing. It is anticipated that this would take approximately 25-30 minutes time to complete the questionnaires, plus some short additional time to give instructions, answer any questions and debrief.

If you agreed to be a participating school in the study, children's data sets would be stored confidentially. Children's names would be anonymised in all written documents and publications. Also, the name of your school would be anonymised in all publications.

If children decide after completing the data set they wish to withdraw their data, they can do so (they have four weeks) by having a parent or guardian (or the school) contact me with their participation code (stated on their pupil/participation information sheet given to each participating pupil) and their data will be securely destroyed. When the research is complete, any data sheets used will be securely destroyed.

DBS Clearance

As I work clinically, I received CRB clearance at the beginning of my post in September 2011. However, my current placement (working within a different trust - University Hospitals Coventry and Warwickshire NHS Trust) required a DBS check, which came back clear in September 2013, which I am happy to present to you.

Dissemination and Additional Session

The empirical research will be written up and form part of a doctoral thesis being submitted to The University of Warwick. I will also be attempting to have the research published in a journal.

If your school takes part in the study, I would be happy to return to the school after the completion of the research to report the findings.

Also, I appreciate that participating will be an extra demand on the school, so would be pleased to also offer a session to staff or pupils e.g. on wellbeing or another topic if this would be helpful.

What will happen next?

I will be in-touch shortly via telephone to ascertain if your school is interested in being part of this exciting new development in child research. If you have any questions regarding the study, please do not hesitate to contact me on the above telephone number or via e-mail (wilded@coventry.ac.uk). I look forward to speaking with you soon.

Yours sincerely



Damian Wilde
Trainee Clinical Psychologist

APPENDIX 8 – PARENTAL INFORMATION/CONSENT LETTER

Coventry University
Priory Street, Coventry CV1 5FB
Telephone 024 7688 8328
Fax 024 7688 8702

Programme Director
Doctorate Course in Clinical Psychology
Dr Eve Knight
BSc Clin.Psy.D. CPsychol

THE UNIVERSITY OF
WARWICK



Dear Parent/Carer,

My name is Damian Wilde and I am a Trainee Clinical Psychologist based at Coventry University and The University of Warwick. I am employed by Coventry and Warwickshire NHS Partnership Trust, working clinically and I attend university completing a clinical psychology doctorate. As part of the award of the doctorate I have to complete a piece of research and I am writing to you to ask for consent for your child to take part in the study. My area of investigation is:

The Relationship between Multidimensional Perfectionism, Self-esteem, Self-criticism and Mood in Primary School Children

Information and Rationale for the Research

I previously worked as a primary school teacher and was interested in how children strive for success and the impact of this. Much of the existing research with adults indicates that those who strive for success and do not fear making mistakes or fear failure may feel motivated, may feel good about themselves and may perform well. This type of perfectionism is called adaptive perfectionism and many researchers say it can be helpful. The not so helpful type of perfectionism 'maladaptive perfectionism' may be associated with low self-esteem and may hinder academic progress. Research with adolescents and adults shows that this type of perfectionism may also be linked to difficult emotions, such as low mood and anxiety.

However, little is known about perfectionism and how this may be linked to personality characteristics such as self-esteem. Gaps in the research field indicate more research with children would be useful. More knowledge and information may increase our understanding of how perfectionism affects children of school age.

The study requires each child to complete four different questionnaires. A child will be presented with various statements, such as 'once I do well at something, I am pleased'. Each statement has a choice of responses, for example, 'agree' or 'disagree'. There are normally four-five response options; with a child placing a tick in a box to the option which best describes them.

Research Team

I am the principal researcher for the study and I have a supervisory team based at Coventry University. Academic supervision will be provided by Dr Laura Taylor, Associate Head of the Psychology and Behavioural Sciences Department and Dr Ian Hume, a Research Tutor on the Clinical Psychology Doctorate Course. Supervision from a clinical perspective will be provided by Jacky Knibbs, Consultant Clinical Psychologist and Tutor on the Clinical Psychology Doctorate Course. If you have any questions regarding the research, please do not hesitate to contact me on the above telephone number or e-mail me at wilded@coventry.ac.uk

Dean of Faculty of Health and Life Sciences

Dr Linda Merriman Mphil PhD DpodM CertEd Coventry University Priory Street Coventry CV1 5FB Tel 024 7679 5805

Head of Department of Psychology

Professor James Tresilian BSc PhD University of Warwick Coventry CV4 7AL Tel 024 7657 3009

1

www.coventry.ac.uk

Ethics, Confidentiality and Consent

As your child is under 16 years of age, parental and child consent must be sought. Ethical approval for the research has been granted by Coventry University. Ethical research guidelines recommended by the British Psychological Society (BPS) will be strictly adhered to. If at any stage (if consent has been gained) your son or daughter wishes to withdraw from the study, their participation will be immediately stopped and data collected from them will not be used. What is involved in completing the questionnaires will be clearly explained to children (explained verbally and via a written pupil information sheet) and they can ask me any questions they want to. This will take place at school during normal school hours. It is anticipated that this will take approximately 30 minutes to complete the questionnaires, plus some additional time for instructions and debriefing. If there is anything at the end of the session they would like to discuss, it will be explained to them that they can speak to myself, a teacher or yourself.

All of your child's information will be kept confidentially and anonymised in all written documents and publications. Children will only be asked to state their sex, age, and school (school name will be anonymised in all publications) on the pupil information sheet and not asked to write their name (they will have a participant code that cannot be linked to their name). They will be also asked to complete a brief, simple consent form, so parental and child consent has been gained. Paper documentation will be securely destroyed at the end of the research process.

Publications

The research will form part of a doctoral thesis and be submitted to The University of Warwick. I will also attempt to have the research published in a journal. But as stated above, children's names will not be reported in any form of publication.

Withdrawal

Your child's questionnaire data can be withdrawn. If they are completing the questionnaires and decide they do not want to continue, data collection will be stopped immediately and data destroyed if they wish. If after completing the questionnaires, your child wished for their data not to be used, please contact me (with your child's participation code) and data will not be used in the study and questionnaires destroyed immediately (you would have four weeks to do this).

If you give consent for your child to take part in the study, please complete the details below and send back the consent form in the envelope in the next one – three days (to be given to class teacher).

Thank you for your time in reading this letter and if you have any questions, please do not hesitate to contact me.

Yours sincerely



Damian Wilde
Trainee Clinical Psychologist

✂.....

Parental Consent Form

I have read and understood the letter requesting consent for my child to take part in the study:
The Relationship between Multidimensional Perfectionism, Self-esteem, Self-criticism and Mood in Primary School Children

I Parent/Guardian/Carer, give permission for
to take part in the study.

Signed

Date:

APPENDIX 9 – PARTICIPANT INFORMATION SHEET

Coventry University
Priory Street, Coventry CV1 5FB
Telephone 024 7688 8328
Fax 024 7688 8702

Programme Director
Doctorate Course in Clinical Psychology
Dr Eve Knight
BSc Clin.Psy.D. CPsychol

THE UNIVERSITY OF
WARWICK



Pupil Information Sheet ☺

Participant Code: **School:** _____

Sex: Boy ☐ Girl ☐ (please tick in the right box) **Age:** _____

About the Project

I am interested in your views on how hard you work and how this may feel and I have asked you to take part as I am interested in the views of children aged 9-11 years. The information I collect will hopefully give us more knowledge about how children work and how they feel. I plan to write up the results for my doctorate qualification at university and for a children's journal, which teachers and doctors may read. Hopefully this will help other children.

What do I have to do?

During the short session, I will be asking you to complete four different questionnaires. There are instructions on each one, but I will also explain what to do before you start. There are no right and wrong answers, just answer what you think or feel. Also, there is no rush to finish it, take your time!

Do I have to take part?

No you do not. It is up to you if you want to complete these questionnaire sheets, so if you do not want to, that is fine. If you have started, but do not want to carry on, please just tell me and you can then stop what you are doing and go back to class. If you complete the questionnaires, but do not wish for them to be used, please either tell me at the time or if you decide afterwards, inform your parent/guardian or teacher who can contact me (telling them your participant code). You would have a four week time limit to do this (from today). Your questionnaires would then be destroyed if you wanted. And remember if you do not want to take part or change your mind, you do not have to explain why.

What happens to my questionnaires?

Nobody will be told your answers. I am the only person who will see your questionnaire sheets and I will not know you completed them because your name will not be on the sheets, just your sex (whether you are a boy or girl), age and school.

Unsure about anything or need support?

If you are not sure about anything, please ask me any questions you want to! If there is anything that you want to discuss about what you have done in this session, please speak to me, your teacher or your parent or guardian.

Okay, if you understand everything and feel comfortable, please complete the sheet which is titled 'consent' and if you give consent, then you can start completing the questionnaires.



Thank-you - Damian ☺

Dean of Faculty of Health and Life Sciences

Dr Linda Merriman Mphil PhD DpodM CertEd Coventry University Priory Street Coventry CV1 5FB Tel 024 7679 5805

Head of Department of Psychology

Professor James Tresilian BSc PhD University of Warwick Coventry CV4 7AL Tel 024 7657 3009

www.coventry.ac.uk

APPENDIX 10 – CHILD CONSENT FORM

Coventry University

Priory Street, Coventry CV1 5FB
Telephone 024 7688 8328
Fax 024 7688 8702

Programme Director

Doctorate Course in Clinical Psychology

Dr Eve Knight
BSc Clin.Psy.D. CPsychol

THE UNIVERSITY OF
WARWICK



Child Consent Form

Please tick ✓

1. I have read and understood the pupil information sheet and have had the opportunity to ask questions.

☐

2. I understand that I do not have to fill out the questionnaires and that I can stop at any time and go straight back to class

☐

3. I understand that all the answers I give will stay private

☐

4. I understand that even if I complete the questionnaires I can ask for my information not to be used (without giving an explanation) and have the questionnaires destroyed immediately

☐

5. I agree to take part in the research study

☐

- Remember, you do not have to complete the questionnaires and can stop if you have started without giving a reason why. Also, if you decided after finishing the questionnaires you do not want your answers to be used in the study, please say so and I will destroy the questionnaires.

If you decide in the next few days or weeks you do not want your questionnaires to be used in the study, tell your parent/guardian or teacher (giving them your participant code) and they will contact me and I will remove them from the study; you would have four weeks from today to do this.

Name of Pupil: Date:

Name of Researcher: Damian Wilde

Signature of researcher:

Date:

Dean of Faculty of Health and Life Sciences

Dr Linda Merriman Mphil PhD DpodM CertEd Coventry University Priory Street Coventry CV1 5FB Tel 024 7679 5805

Head of Department of Psychology

Professor James Tresilian BSc PhD University of Warwick Coventry CV4 7AL Tel 024 7657 3009

www.coventry.ac.uk

APPENDIX 11 – ADAPTIVE/MALADAPTIVE PERFECTIONISM SCALE

Adaptive and Maladaptive Perfectionism Scale

Please read each statement. **Circle** the answer that best describes you

If you think that the statement is really unlike you, circle **1**.

If you think that the statement is somewhat unlike you, circle **2**.

If you think that the statement is somewhat like you, circle **3**.

If you think that the statement is really like you, circle **4**.

1 = really unlike me
2 = somewhat unlike me
3 = somewhat like me
4 = really like me

- | | | | | |
|---|---|---|---|---|
| 1. I feel super when I do well at something..... | 1 | 2 | 3 | 4 |
| 2. I am fearful of making mistakes..... | 1 | 2 | 3 | 4 |
| 3. I like for things to always be in order..... | 1 | 2 | 3 | 4 |
| 4. I like to be praised for my work because
then others will want to be like me..... | 1 | 2 | 3 | 4 |
| 5. I do not get mad if I make a mistake..... | 1 | 2 | 3 | 4 |
| 6. I take a long time to do something because I check it many times... | 1 | 2 | 3 | 4 |
| 7. Once I do well at something, I am pleased..... | 1 | 2 | 3 | 4 |
| 8. When I make a mistake, I feel so bad that I want to hide..... | 1 | 2 | 3 | 4 |
| 9. I always make a list of things and check them off after I do them... | 1 | 2 | 3 | 4 |
| 10. I do not get excited when I do a good job..... | 1 | 2 | 3 | 4 |
| 11. I do good work so that others think I am great..... | 1 | 2 | 3 | 4 |
| 12. I get mad when I see a mistake in my work..... | 1 | 2 | 3 | 4 |
| 13. I have certain places where I always put my things..... | 1 | 2 | 3 | 4 |
| 14. I never feel good about my work..... | 1 | 2 | 3 | 4 |
| 15. Mistakes are O.K. to make..... | 1 | 2 | 3 | 4 |
| 16. I want to be known as the best at what I do..... | 1 | 2 | 3 | 4 |
| 17. I become sad when I see a mistake on my paper..... | 1 | 2 | 3 | 4 |
| 18. I like to help others after I do something well..... | 1 | 2 | 3 | 4 |
| 19. I want to be perfect so that others will like me..... | 1 | 2 | 3 | 4 |
| 20. I notice more what I do right than what I do wrong..... | 1 | 2 | 3 | 4 |
| 21. After doing an activity, I feel happy..... | 1 | 2 | 3 | 4 |
| 22. I cannot relax until I have done all my work..... | 1 | 2 | 3 | 4 |
| 23. When one thing goes wrong, I wonder if I can do anything right.... | 1 | 2 | 3 | 4 |
| 24. My work is never done well enough to be praised..... | 1 | 2 | 3 | 4 |
| 25. I only like to do one task at a time..... | 1 | 2 | 3 | 4 |
| 26. Making one mistake is as bad as making ten mistakes..... | 1 | 2 | 3 | 4 |
| 27. I like to share my ideas with others..... | 1 | 2 | 3 | 4 |

Copyright © 2002 by Kenneth G. Rice and Karen J. Preusser. All rights reserved.

APPENDIX 12 – ROSENBERG SELF-ESTEEM SCALE

ROSENBERG SELF-ESTEEM SCALE

Please place a tick in the appropriate box to say whether you strongly agree, agree, disagree, or strongly disagree with the statements below.

	Strongly Agree	Agree	Disagree	Strongly Disagree
1. On the whole I am satisfied with myself				
2. At times I think I am no good at all				
3. I feel I have a number of good qualities				
4. I am able to do things as well as most other people				
5. I feel I do not have much to be proud of				
6. I certainly feel useless at times				
7. I feel that I am equally as worthwhile as others				
8. I wish I could have more respect for myself				
9. All in all I tend to feel that I am a failure				
10. I take a positive attitude towards myself				

APPENDIX 13 – SELF-RATING SCALE

SELF-RATING SCALE

Please respond to the following questions with respect to the scale below.

1	2	3	4	5	6	7
Strongly Disagree					Strongly Agree	

1. When I am with other people I feel weak and not liked. _____

2. If others criticise me, they must be right. _____

3. I can't stand weaknesses, defects and mistakes. _____

4. I often feel as though I am not as good as other people. _____

5. At times I have been so ashamed I just wanted to hide. _____

6. Sometimes I feel completely worthless. _____

7. I am no more special than anyone else. _____

8. Others are right in criticising me. _____

APPENDIX 14 – SHORT MOOD AND FEELINGS QUESTIONNAIRE

Moods and Feelings Questionnaire (7-18)

This form is about how you might have been feeling or acted recently.

Please check how much you have felt or acted this way in the past two weeks

	0 Not True	1 Sometimes	2 True
I felt miserable or unhappy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I didn't enjoy anything at all.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I felt so tired I just sat around and did nothing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I was very restless.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I felt I was no good anymore.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I cried a lot.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I found it hard to think properly or concentrate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I hated myself.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I felt I was a bad person.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I felt lonely.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I thought nobody really loved me.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I thought I would never be as good as other kids.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I did everything wrong.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Score: _____

Angold, A., Costello, E. J., Messer, S. C., Pickles, A., Winder, F., & Silver, D. (1995)

APPENDIX 15 – PARTICIPANT DEBRIEF SHEET

Coventry University
Priory Street, Coventry CV1 5FB
Telephone 024 7688 8328
Fax 024 7688 8702

Programme Director
Doctorate Course in Clinical Psychology
Dr Eve Knight
BSc Clin.Psy.D. CPsychol

THE UNIVERSITY OF
WARWICK



Debrief Sheet for Children



Questionnaires

Okay, if you have managed to finish completing all four questionnaires, thank you! Don't worry if you haven't, that is fine and thank you for making the effort to come along 😊

Remember, if you do not want your questionnaires to be used, please say so and I will destroy them. If you decide some days/weeks after we have finished you do not want your questionnaires to be used in the study, please get your parent/guardian or teacher to contact me (with your participation code - which is on your pupil information sheet) and I will then destroy your questionnaires and they would not be used in the study; you would have four weeks from today to do this.

Feeling okay?

If you are feeling okay and happy to go back to class, please do so 😊

Feeling a little worried or upset?

If you are feeling a little worried or upset about any questions you have answered, please let me know if you want to. I am happy to talk to you about any concerns or if you would prefer you can chat to your class teacher or another member of staff you are comfortable talking to. You can also speak to your parent/s or carer/s. If you are not sure who to speak to, please ask me and we can have a chat if you would like.

Alternatively, if you wanted to talk to someone and would not be comfortable talking to a teacher or someone else, you can always ring ChildLine on ☎ 0800 1111 who you can chat to about any sort of problem or worry no matter how big or small.

Question after we have finished?

If you have any other questions, your teachers and parent/s or carer/s have my contact details and can get in-touch with me.

Thank you very much for your time and hopefully this will help to give us more information about how children work and feel in and out of school.

Thanks - Damian

Dean of Faculty of Health and Life Sciences

Dr Linda Merriman Mphil PhD DpodM CertEd Coventry University Priory Street Coventry CV1 5FB Tel 024 7679 5805

Head of Department of Psychology

Professor James Tresilian BSc PhD University of Warwick Coventry CV4 7AL Tel 024 7657 3009