Mind Pad
Canada’s student written, edited, and published psychology newsletter.

Notes d’idées
Le bulletin rédigé, édité et publié par les étudiants de la Société canadienne de la psychologie.

FALL 2017 – AUTOMNE 2017
Mind Pad has two mandated goals:

1. It aims to provide a professional newsletter that is written and reviewed by students of psychology who are affiliates of the Canadian Psychological Association. The content of the newsletter should be of interest to all who are practicing and studying psychology, but the primary audience of the newsletter is students of psychology.

2. It aims to offer studying psychology researchers and writers an opportunity to experience a formal submission process, including submission, review, and resubmission from the points of view of both submitter and reviewer/editor.

Mind Pad is a student journal of the Canadian Psychological Association (CPA) over which the CPA holds copyright. The opinions expressed are strictly those of the authors and do not necessarily reflect the opinions of the Canadian Psychological Association, its officers, directors, or employees. Mind Pad is published semi-annually, only in electronic form and made available to members of the CPA and the general public.

Table of contents

3 Exploring the Impact of Student Leadership
   Zarina A. Giannone, M.A., University of British Columbia

5 Survol de l’impact du leadership étudiant
   Zarina A. Giannone, M.A., Université de la Colombie-Britannique

7 Meditative Exposure Therapy: A Proposed Therapeutic Treatment Program for Inmates with Posttraumatic Stress Disorder
   Julia I. O’Loughlin, M.A., University of British Columbia
   Myfanwy A. Bakker, M.A., University of British Columbia

13 Alexithymia and Emotion Recognition in People with Autism Spectrum Disorder: A Review
   Ruby Jamil, M.A., University of Windsor
   Anne-Marie DePape, Ph.D., Mohawk College

17 Effects of Thin Images on Women’s State Self-Esteem
   Carolyn Elizabeth Oghie, B.A., St. Mary’s University

22 Shifting from the Current Model of Diagnosis and Treatment of ADHD to a Strength-based Approach
   Juliane Dmyterko, B.A., University of British Columbia

27 The Effects of Interviewer Rapport on Children’s Memory Recall During Forensic Interviewing
   Natalie Frost, M.A., University of Windsor

Editor:
Zarina A. Giannone, University of British Columbia
zarina.giannone@gmail.com

Associate Editors:
Mariem Boukadi, University of Montreal
mariem.boukadi@gmail.com
Sarah Bourdeau, University of Quebec (Montreal)
bourdeau.sarah1@gmail.com

Graduate Reviewers:
Lillian MacNeill, University of New Brunswick
lillian.macneill@outlook.com
Nicole Poirier, Lakehead University
npoirier1@lakeheadu.ca
Sara Holland, Fielding Graduate University
sara_holland@hotmail.ca
Suzanne Chomycz, Lakehead University
schomycz@lakeheadu.ca
Lindsay Huska, University of Manitoba
umhuska@myumanitoba.ca
Elliot Lee, University of Victoria
esi@uvic.ca
Maxime Monembeault, University of Montreal
maxime.montembault@gmail.com

Undergraduate Reviewers:
Cotlon Macdonald, University of Regina
jamescoltonmacdonald@gmail.com
Sara Ahmadian, University of British Columbia
sara.ahmadian.bc@gmail.com
Ratanak Ly, University of Guelph
rly@uoguelph.ca
Patryk Siergiej, Red Deer College
patryk.siergiej@gmail.com
Hayley Riel, University of Manitoba
hayley.riel@gmail.com

CPA Liaison:
Dr. Lisa Votta-Bleeker, CPA Deputy CEO and Science Director
executiveoffice@cpa.ca

Design: Raymond Leveille, memoproductions.ca
The summer of 2017 marks the end of three incredible years spent representing students in various leadership positions within the Canadian Psychological Association's (CPA) Section for Students in Psychology. While it has always been my professional home as a student-affiliate member, the CPA has recently acquired new and enhanced meaning to me. My engagement with the CPA in student representative positions has positively enriched my training in psychology, while contributing a wealth of skills and knowledge about psychology in Canada. It has been my experience that the CPA deeply values and respects the student perspective, which has presented an exceptional opportunity for me to contribute to causes that I am passionate about. Additionally, this experience has enabled the development of integral leadership skills which can mobilize future academic and career opportunities. Professional service roles that I have held or currently hold with the CPA include:

- Student Representative, CPA Board of Directors (2014-2017)
- Chair-Elect, Chair, and Past-Chair of the Section for Students (2014-2017)
- Program Founder/Coordinator of the CPA Student Mentorship Program (2015-2016)
- Student Member on the CPA Membership Committee (2014-present), Professional Affairs Committee (2015-present), and the Canadian National Committee on the International Union of Psychological Science (2016-present)
- Editor-in-Chief of Mind Pad (2016-2017)

In all of these roles, I have worked alongside incredible leaders, students and professional members alike, who are truly pioneers and innovators in their chosen fields. These individuals have embraced our collective student voice and are actively paving the way for a bright future in psychology. Becoming involved in the CPA's professional community has been a privilege, an experience that I will always cherish. I plan to pursue opportunities for involvement going forward. As I depart from my role as Mind Pad’s Editor-in-Chief, I hope to encourage students to seek out opportunities that amplify their commitment to their discipline, that spark interest, passion, and creativity, and that push them outside of their comfort zones. I am confident that it is there where much of our true learning happens.

Giannone, Piotrowski, Guzman-Ratko, and O’Brien (2017) presented a workshop on leadership in psychology at the 2017 CPA Annual Convention in Toronto, Ontario this past June. The chief message that was communicated to attendees pertained to the inherent leadership training that is embedded within the psychology student experience. Scientist and practitioner models of training in psychology covertly train students to be leaders and afford the development of integral skills such as communication, supervisory competencies, adaptability, and mindfulness, among several others. It is essential that students bring their attention to the diverse set of leadership skills that they have already acquired and work to gain experiences that may help refine them. There are multiple ways to gain leadership experience including networking, undertaking specific coursework, and, of course, through volunteer work. As described by Giannone et al. (2017), there is much opportunity for graduate students and psychologists to hone their leadership skills and make a difference in their chosen areas (e.g., psychologists in primary management positions; students on steering committees). While it can be challenging to find the time, leadership is a worthwhile experience and I wholeheartedly invite our readership to pursue new opportunities, including those offered by the CPA Section for Students in Psychology. For more information on how to get involved or to learn about leadership opportunities, please visit: http://www.cpa.ca/students/

I am pleased to introduce the articles which have been published in the 2017 Summer Issue of Mind Pad: “Effects of thin images on women’s state self-
esteem” (Carolyn Ogilvie); “The effects of interviewer rapport on children’s memory recall during interviewing” (Natalie Frost); “Meditative exposure therapy: A proposed therapeutic treatment program for inmates with PTSD” (Julia O’Loughlin and Myfanwy Bakker); “Alexithymia and emotion recognition in people with Autism Spectrum Disorder: A review” (Ruby Jamil and Anne-Marie DePape); and, “Shifting from the current model of diagnosis and treatment of ADHD to a strengths-based approach” (Juliane Dmyterko). I hope you enjoy this issue and learn about our student colleagues’ work.

I would like to extend my gratitude to Mind Pad’s 2016-2017 Editorial Board including our Associate Editors (Mariem Boukadi and Sarah Bourdeau), Graduate Student Reviewers (Lillian MacNeill, Nicole Poirier, Sara Holland, Suzanne Chomycz, Lindsay Huska, Elliot Lee, Pier-Luc de Chantal, and Maxime Montembeault), and Undergraduate Student Reviewers (Colton Macdonald, Sara Ahmadian, Ratanak Ly, Patryk Siergiej, and Hayley Riel). I would also like to thank the Canadian Psychological Association and Dr. Lisa Votta-Bleeker, CPA’s Deputy Chief Executive Officer and Science Director, as this issue would not have been possible without their support. I would like to extend a warm welcome to our incoming-Editor, Ms. Kyrsten Grimes, M.A. I am confident that Mind Pad will continue to grow under her strong leadership.

Please feel free to contact me if you have any questions, comments, or concerns about the current issue at zarina.giannone@gmail.com. If you are interested in submitting a manuscript or would like to get involved as a peer-reviewer, please visit our website for further information: http://www.cpa.ca/students/MindPad. Happy reading!

Warm regards,
Zarina Giannone, M.A.
Editor-in-Chief, Mind Pad

References
L’été 2017 marque, pour moi, la fin de trois années extraordinaires passées à représenter les étudiants à différents postes de direction au sein de la Section des étudiants en psychologie de la Société canadienne de psychologie (SCP). Bien que, en ma qualité de membre étudiante, la SCP ait toujours été ma communauté professionnelle, celle-ci revêt désormais, pour moi, une signification nouvelle et étendue. Mon engagement auprès de la SCP à des postes de représentante des étudiants a enrichi considérablement ma formation en psychologie, tout en me permettant d’acquérir une foule de compétences et de connaissances au sujet de la psychologie au Canada. Ce que j’ai retenu de mes années d’implication, c’est que la SCP accorde beaucoup de valeur au point de vue des étudiants et respecte l’opinion de ses membres étudiants. Mon expérience m’a donné l’occasion exceptionnelle de contribuer à des causes qui m’intéressent vivement. Elle m’a aussi permis d’acquérir des compétences complètes en leadership, qui sont à même d’asseoir ma future carrière universitaire et professionnelle. Mon implication professionnelle passée ou présente auprès de la SCP est la suivante :
• Représentante des étudiants, conseil d’administration de la SCP (2014-2017)
• Présidente désignée, présidente et présidente sortante de la Section des étudiants (2014-2017)
• Fondateure et coordonnatrice du programme de mentorat étudiant de la SCP (2015-2016)
• Membre étudiante du Comité de l’adhésion de la SCP (de 2014 à aujourd’hui), du Comité des affaires professionnelles (de 2015 à aujourd’hui) et du Comité national canadien de l’Union internationale de psychologie scientifique (de 2016 à aujourd’hui)
• Rédactrice en chef de Note d’idées (2016-2017)

Dans chacune de ces implications, j’ai travaillé aux côtés de dirigeants, d’étudiants et de professionnels extraordinaires, qui sont de véritables pionniers et de vrais visionnaires dans leur domaine. Ces personnes ont adopté la voix collective des étudiants et préparent activement l’avenir de la psychologie, qui s’annonce brillant. M’impliquer auprès de la communauté professionnelle que constitue la SCP a été un privilège et une expérience dont je chéris toujours le souvenir. J’ai l’intention de continuer à m’impliquer. Alors que je quitte mon poste de rédactrice en chef de Notes d’idées, j’aimerais encourager les étudiants à chercher sans cesse à renforcer leur engagement à l’égard de leur discipline, à cultiver leur intérêt, leur passion et leur créativité et à sortir de leur zone de confort, en restant à l’affût de toutes les occasions qui s’offrent à eux. Je suis convaincue que c’est par ce moyen qu’une grande partie de notre apprentissage s’effectue véritablement.

Giannone, Piotrowski, Guzman-Ratko et O’Brien (2017) ont présenté un atelier sur le leadership en psychologie au congrès annuel de la SCP de 2017, tenu en juin dernier à Toronto, en Ontario. Le message principal qui a été communiqué aux participants concernait la formation au leadership indissociable de l’expérience pédagogique des étudiants en psychologie. De manière plus ou moins intentionnelle, la formation en psychologie, fondée sur le modèle chercheur-praticien, prépare les étudiants à devenir des leaders et permet à ceux-ci d’acquérir des compétences complètes, comme la communication, les compétences en supervision, la capacité d’adaptation et la pleine conscience, pour ne nommer que celles-là. Il est essentiel que les étudiants se focalisent sur l’éventail de compétences en leadership qu’ils ont déjà acquises et qu’ils soient ouverts aux expériences qui sont susceptibles d’améliorer ces compétences. Il y a plusieurs moyens d’acquérir de l’expérience en leadership, notamment en faisant du réseautage, en suivant des cours portant précisément sur le sujet, et, bien sûr, en s’impliquant bénévolement. Comme le décrivent Giannone et ses collaborateurs (2017), pour les diplômés en psychologie et les psychologues, les possibilités de parfaire ses compétences en leadership et d’innover dans le secteur choisi (p. ex., assumer un poste de direction, pour les psychologues; faire partie d’un comité directeur, pour les...
étudiants) sont innombrables. Même s’il est parfois difficile de trouver le temps de le faire, l’expérience du leadership en vaut la peine, et j’invite cordialement nos lecteurs à saisir toutes les possibilités qui se présentent, y compris à la direction de la Section des étudiants en psychologie de la SCP. Pour plus de renseignements sur la façon de s’impliquer ou pour en savoir plus sur les opportunités de leadership, rendez-vous à l’adresse http://www.cpa.ca/etudiants/.

Je suis heureuse de vous présenter les articles publiés dans le numéro d’été de 2017 de Note d’idées : « Effects of thin images on women’s state self-esteem » (Carolyn Ogilvie); « The effects of interviewer rapport on children’s memory recall during interviewing » (Natalie Frost); « Meditative exposure therapy: A proposed therapeutic treatment program for inmates with PTSD » (Julia O’Loughlin et Myfanwy Bakker); « Alexithymia and emotion recognition in people with Autism Spectrum Disorder: A review » (Ruby Jamil et Anne-Marie DePape); « Shifting from the current model of diagnosis and treatment of ADHD to a strengths-based approach » (Juliane Dmyterko). J’espère que vous apprécierez ce numéro et que vous en apprendrez sur le travail de vos collègues étudiants.


J’aimerais également remercier la Société canadienne de psychologie (SCP) et la Dr. Lisa Votta-Bleeker, directrice générale associée et directrice de la Direction générale de la science de la SCP, car, sans leur soutien, le présent numéro n’aurait pu voir le jour. Je tiens également à souhaiter chaleureusement la bienvenue à notre nouvelle rédactrice en chef, Mme Kyrsten Grimes, M.A. Je suis convaincue que Note d’idées continuera de se développer sous sa direction.

N’hésitez pas à communiquer avec moi si vous avez des questions, des commentaires ou des préoccupations au sujet du présent numéro, en écrivant à zarina.giannone@gmail.com. Si vous voulez proposer un manuscrit ou désirez vous impliquer en tant qu’évaluateur d’articles, veuillez visiter notre site Web pour de plus amples renseignements : http://www.cpa.ca/etudiants/MindPadfr/. Bonne lecture!

Sincères salutations,
Zarina Giannone, M.A.
Rédactrice en chef, Notes d’idées

Références
**Abstract**

In North America, posttraumatic stress disorder (PTSD) is disproportionately represented in inmate populations (21%) compared to the general population (8%). Despite significantly higher rates of PTSD among inmates, few treatment approaches are being proposed or evaluated for efficacy within the forensic setting. Continued suffering from PTSD in inmate populations imposes numerous hindrances to rehabilitation and is a known contributor to recidivism. In this paper, we will outline a proposed program called *Meditative Exposure Therapy* to address PTSD in inmate populations. This program combines Prolonged Exposure Therapy (PE) and Mindfulness Based Stress Reduction (MBSR). We propose that the addition of MBSR within a PE framework will improve the effectiveness of PE on PTSD treatment by providing important emotion regulation skills that reduce the risk of recidivism.

---

**Résumé**

En Amérique du Nord, le trouble de stress post-traumatique (TSPt) est disproportionnellement représenté dans la population carcériale (21 %) comparativement à la population générale (8 %). Malgré le taux considérablement plus élevé de TSPt chez les détenus, peu d’approches thérapeutiques sont proposées ou font l’objet d’une évaluation afin d’en déterminer l’efficacité dans le contexte judiciaire. Le TSPt non traité dans la population carcériale nuit considérablement à la réadaptation du détenu qui en est atteint et contribue à la récidive. Dans le présent article, nous décrivons un programme de traitement appelé « thérapie d’exposition par la méditation » pour traiter le TSPt dans la population carcériale. Le programme que nous proposons combine la thérapie d’exposition prolongée et la réduction du stress basé sur la pleine conscience. Nous faisons valoir que l’ajout de la réduction du stress basé sur la pleine conscience dans le cadre de la thérapie d’exposition prolongée améliorera l’efficacité de cette dernière pour le traitement du TSPt, car elle fera acquérir à la personne atteinte de TSPt des compétences de régulation des émotions extrêmement utiles, qui sont à même de réduire le risque de récidive.

---

In North America, the number of people who experience potentially traumatic events (PTEs) is substantial, with estimates ranging from 40 to 80% (Breslau, Davis, Andreski, & Peterson, 1991; Kessler, Sonnega, Bromet, Hughes, & Nelson, 1995). Following exposure to PTEs, an estimated 8% of people develop posttraumatic stress disorder (PTSD) symptomatology (Kessler, 2005; Statistics Canada). Approximately 9.2% of Canadians have experienced PTSD in their lifetime (Dückers, Alisic, & Brewin, 2016), with 1.7% of the population currently suffering from PTSD (Statistics Canada, 2013). A large body of research (e.g., Breslau et al., 1991; Brewin, Andrews & Valentine, 2000; McFarlane, 2000) has revealed that individual risk factors are the key to understanding the differential development of PTSD symptomatology among people exposed to potentially traumatic events. Among the most common of such risk factors are substance abuse, history of childhood maltreatment, low socioeconomic status, and psychiatric illness (Brewin et al., 2000).

As the risk factors for PTSD development—substance abuse, history of childhood maltreatment, low socioeconomic status, and psychiatric illness—are common among inmates (see Wakerfield & Uggen, 2010 for a review), it is not surprising that prison populations report higher levels of PTSD compared to the general population (Frueh, Grubaugh, Elhai, & Ford, 2012). Indeed, the prevalence rate of PTSD in North American inmate populations is estimated to be as high as 21% (Goff, Rose, Rose, & Purves, 2007).
Prolonged exposure therapy (Pe) is a treatment rooted in emotional processing theory (Foa, 2011). Within this theory, the central underlying factor in PTSD is the continued operation of the fear structure—a network of memories containing information about the feared stimuli, the associated physiological reactions, and the meaning of these stimuli and reactions. For people with PTSD, the fear structure is large and easily activated by erroneous (i.e., objectively non-threatening) stimuli that trigger a memory of the original traumatic experience. The frequency with which the fear structure is activated in the trauma survivor causes the world around them to feel dangerous and unsafe, leading to several PTSD symptoms (e.g., hypervigilance, easily startled, etc.). As a means of escaping the sense of ever-present danger, feared thoughts and situations are actively avoided, leaving the trauma experience unprocessed.

In order to foster emotional processing and target problematic avoidance that maintains the fear structure in PTSD, PE utilizes systematic confrontation of trauma-associated stimuli (Foa, 2011). Systematic confrontation involves gradual exposure to fear-eliciting and avoided stimuli, using techniques such as in-vivo (i.e., direct confrontation of feared objects, activities, or situations) or imaginal exposure (i.e., repeated recounting of the trauma aloud). Following in-vivo or imaginal exposure a discussion of the revisiting experience is conducted.

The goal of PE is to dismantle the erroneous beliefs that maintain symptoms of PTSD (e.g., safe stimuli are harmful and need to be avoided and that coping with distress is impossible). For PE to operate effectively, two necessary conditions must be met: (a) the fear structure must be activated; and (b) new information that is incompatible with the current fear structure must be made available.

Randomized controlled trials have shown PE to be an effective treatment for PTSD. Indeed, a meta-analytic review of thirteen studies, with a total sample of 658 participants, concluded that patients treated with PE had better results than 86% of patients in inactive (waitlist) and active (psychological placebo) control conditions (Powers et al., 2010). Effect sizes were robust, and findings supported the use of PE as the front-line treatment for those with PTSD.

Mindfulness for Inmate Rehabilitation

In the United States, 70% of released prisoners will experience recidivism, suggesting that rehabilitative measures are not being effectively delivered within the current system (Himelstein, 2011). With increasing evidence that poor emotion regulation capabilities increase propensity toward criminal activity (Day, 2009), a case can be made for programs aimed at building emotion regulation techniques as a means of reducing the risk of inmate recidivism.

One such program, Mindfulness-Based Stress Reduction (MBSR), is an eight-week mediation training that seeks to engage trainees in sustained, non-reactive attention to their on-going mental processes. Developed in 1979 by Jon Kabat-Zinn, MBSR combines three techniques—awareness of breath in sitting mediation, a body scan (i.e. bringing awareness systematically to all regions of the body while in a lying down position), and a series of Hatha yoga postures (Himel-
stein, 2011). During the initial weeks of the program, the body scanning technique is practiced for 45 minutes, followed by 10 minutes of a sitting mediation. Yoga postures are incorporated and modified to fit the practitioners’ needs. Over time, the amount of time dedicated to the body scan technique is decreased, while the time allotted for sitting mediation increases. Ultimately, the purpose of this practice is to develop the capacity for greater conscious awareness and voluntary control over habitual reactions to emotional stimuli (Samuelson, Carmody, Kabat-Zinn, & Bratt, 2007). Moreover, MBSR reduces avoidance, a hallmark characteristic of PTSD, by promoting non-judgmental acceptance of one’s experience, and shifting the way in which thoughts and emotions are experienced (Chambers, Gullone, & Allen, 2009).

In the corrections setting, MBSR has been tested as a way of increasing inmates’ capacity for less reactive responses to intense emotional states (Himelstien, 2011). Across six Massachusetts correctional facilities, 1350 inmates have completed an MBSR program, as described above, while being assessed via measures evaluating changes in hostility, self-esteem and mood disturbance (Samuelson et al., 2007). In all institutions evaluated, both men and women showed statistically significant reductions in hostility levels and mood disturbances as well as statistically significant increases in self-esteem. These changes are likely to contribute to healthier rehabilitative environments for inmates.

Meditative Exposure Therapy

What follows is a proposal for a therapeutic program—Meditative Exposure Therapy—for inmates with PTSD. This program proposes a unique combination of PE and MBSR and intends to integrate emotion regulation skill development with the gold standard for PTSD treatment. Based on research showing that poor emotion regulation capabilities and PTSD symptomatology are correlates of recidivism (Day, 2009; Kubiak, 2004), we believe this program may enhance inmate rehabilitation and prevent post-release re-offences more effectively than either treatment in isolation. Further, based on empirical support for MBSR (see Himelstein, 2011 for a review), we assert that various elements of PE, particularly the exposure and insight building components, will be improved as a result of the integration of MBSR. Meditative Exposure Therapy consists of four therapeutic phases—each outlined separately below—designed to be conducted in a linear, sequential manner.

We believe that this treatment program has the potential for use across North American prisons given the relatively low cost that would be incurred through its delivery and the trans-cultural nature of mindfulness practice (Fuchs, Lee, Roemer, & Orsillo, 2011). Indeed, the vast majority of human cultures engage in practices involving deep, focused thought, listening, and attention (Yellowbird, 2011). In a Canadian context where Aboriginal peoples are disproportionately represented in correctional facilities (Statistics Canada, 2016), mindfulness may have increased utility given a shared emphasis in Aboriginal and Eastern philosophies of healing on integration of body, mind, spirit components (Dreger, MacKenzie, & McLeod, 2015).

Phase I

The overarching purpose of Phase I of the Meditative Exposure Therapy program is the building of a therapeutic relationship between participant and clinician. During this introductory phase, client history will be taken and assessment of PTSD severity and manifestation will be conducted. Additionally, psychoeducation on PE and MBSR will be provided to each participant and questions and concerns will be addressed. Phase I will last for two 50 minute sessions, though a third session may be added if necessary. Goals of Phase I are to build trust and rapport between participant and clinician, and to facilitate comprehension of the therapeutic interventions the participant will undergo. Additionally, Phase I seeks to identify the conditioned stimulus or stimuli (i.e. triggering stimuli similar to that involved in the traumatic event) to which the participant will later be exposed.

Phase II

Phase II involves two, one hour long sessions consisting of an introduction to the meaning and practice of mindfulness. Participants will be guided through various mindfulness activities designed to facilitate non-judgmental observation of their thoughts and behavioural tendencies. Particular attention will be paid to mindful breathing and body scanning techniques, taught as strategies to mitigate autonomic nervous system activation to trauma-related thoughts and memories (Kelly & Garland, 2016). Exploration and awareness of physiological reactions to emotions will also be emphasized. The aim of Phase II is to reduce avoidance of trauma-related thoughts by encouraging thought observation and present-moment awareness. Moreover, the purpose of Phase II is to acquire skills that enhance bodily connection and emotional awareness. This will prime the client for the following phase of Meditative Exposure Therapy consisting of PE, by increasing the potential for participants to achieve emotional processing. Participants will be instructed to practice mindfulness for a minimum of ten minutes per day outside of scheduled program time.
Phase III

In Phase III, each participant will undergo an imaginal exposure therapy component of PE. Participants will deliberately and systematically confront their trauma-related stimuli by imagining their trauma experience and recounting it out loud, repeatedly, for a minimum of half an hour. Following imaginal exposure, the participant and clinician will discuss and process the experience of imagining the trauma. During discussion, particular attention will be paid to new insights regarding unhelpful or unrealistic beliefs that exacerbate PTSD symptoms. Given the previous MBSR training, new and subtle insights may be more likely to be realized. Disconfirming evidence of erroneous beliefs will also be emphasized in this phase. Phase III works through habituation—repetitious interaction with the trauma memory decreases the fear and anxiety associated with it (Foa, 2011). Memory organization and increased capacity to distinguish between re-experiencing the trauma versus thinking about the trauma are additional purposes of this phase. Phase III will consist of approximately eight sessions. Additional sessions may be added if necessary.

Phase IV

During Phase IV, participants will meet once a week for eight weeks for guided MBSR activities—body scans, sitting meditations, and yoga postures. Following the latter, group discussions will be led to facilitate a dialogue on how MBSR can be incorporated into everyday life. In the first few weeks of Phase IV, the body scan portion of the session will be longer than the sitting meditation and yoga posture segments. As the weeks progress, more time will be dedicated to sitting meditation. Participants will be asked to maintain a sitting meditation practice for a minimum of half an hour per day outside of scheduled program time. Week six of Phase IV will consist of a full day silent meditation retreat. Phase IV aims to maintain and extend the operation of the previous phase and increase the inmate’s overall quality of life. Specific goals include maintaining extinction of the fear structure and decreasing habitual reactivity to intense emotional states. Phase IV works by increasing awareness of one’s cognitive processes and the associated habitual reactions that tend to follow. As awareness of the relationship between cognitions and reactions builds, negative habitual reactions can be better anticipated and prevented from manifesting. Subsequently, adaptive reactions will more likely be displayed.

Methods

Initially, feasibility testing will be conducted by the author and co-author for the Meditative Exposure Therapy program. Following the guidelines of Bowen et al. (2009) feasibility testing will consist of consultation with subject matter experts on the acceptability and practicality of this intervention within corrections settings as well as assessment for the demand, or estimated need, for an intervention of this nature in the corrections system. We may also consider expansion into similar settings, such as juvenile detentions centres, should such environments be deemed more suitable.

Upon completion of the feasibility testing portion, we will begin pilot testing Meditative Exposure Therapy. We predict that this program will be pilot tested in two locations—a women’s prison and a men’s prison. For pilot testing, each group will have a minimum of six participants.

Assessments of PTSD symptomatology, criminal thinking style, emotion regulation deficits, and trait mindfulness will be made one week prior to the beginning of the program. The same battery of questionnaires will be administered and assessed for clinically significant change (see Jacobson & Truax, 1991) during post-testing which will occur three months, six months, and twelve months following program completion.

Measures

Posttraumatic Stress Disorder Check List-5 (PCL-5; Weathers et al., 2013). The PCL-5, a 20-item self-report, is a measure of DSM-5 PTSD symptom severity (Weathers et al., 2013). Each item represents a PTSD symptom. Symptom categories include: re-experiencing, avoidance, negative alterations of cognitions and moods, and hyperarousal. Respondents indicate on a 1 (not at all) to 5 (extremely) scale the degree to which they have been distressed by each symptom. Higher scores indicate greater symptom severity. The PCL-5 has been identified as a gold-standard measure regarding sensitivity, specificity, and diagnostic accuracy (Spoont et al., 2015). Across two studies PCL-5 scores were highly correlated (r = 0.87 and 0.95, respectively), and showed strong internal consistency (alphas = 0.94 and 0.97) (Bovin et al., 2015). Evidence for convergent validity with the Clinician Administered PTSD Scale (r = 0.81) was found. In the present study, the PCL-5 will be used to assess for the presence and degree of PTSD symptomatology.

Psychological Inventory of Criminal Thinking Styles (PICTS; Walters, 2009). The PICTS is an eighty item self-report measure designed to assess eight styles of thinking that support criminal lifestyle (Walters, 2009). Each PICTS item is scored on a four point Likert scale ranging from 1 (disagree) to 4 (strongly
agree). Results are obtained by summing the raw scores of all eight thinking styles to compute a General Criminal Thinking (GCT) score. An estimation of the measure’s internal consistency has been reported with Cronbach’s $\alpha = .93$. Test-retest reliability is reported as ranging from $.81$ to $.93$. Inter-rater reliability is estimated to be .75. PICTS is a unique measure of criminal thinking styles in that it assesses both process and content of thought that correlate with measures of criminality (Walters, Trgovac, Rychlec, Di-Fazio, & Olson, 2002). Initial study results support the efficacy of the measure as a predictor of recidivism (Walters, 2011). PICTS is valuable in the present research project to evaluate alterations in inmate thinking post intervention and to predict likelihood of recidivism following release.

**Difficulty with Emotion Regulation-Short Form (DERS-18; Victor & Klonsky, 2016).** The DERS-18 is an eighteen-item scale that assesses how effectively people regulate emotions in upsetting situations (Victor & Klonsky, 2016). The instrument reports individuals’ typical levels of problematic emotion regulation in six areas: nonacceptance of negative emotions, inability to engage in goal-directed behaviors when distressed, difficulties controlling impulsive behaviors when distressed, limited access to effective emotion regulation strategies, lack of emotional awareness, and lack of emotional clarity. Regulation difficulties assessed by this scale have been shown to predict a variety of clinical outcomes, including aggressive behaviors and substance abuse. Tests from five samples revealed strong internal consistency (alpha = .91 for the combined sample), concurrent validity, convergent validity and predictive validity (Victor & Klonsky, 2016).

**The Five Facet Mindfulness Questionnaire (FFMQ; Baer, Smith, Hopkins, Krietemeyer, Toney, 2006).** The FFMQ is a 39-item questionnaire that measures five facets of mindfulness: observing of internal and external present-moment stimuli; describing or labeling these experiences with words; acting with awareness; nonjudging of internal experiences; and nonreactivity to inner experiences (Baer et al. 2006). The scale yields a total score which can range from 0 to 195. Baer et al. (2006) concluded that the FFMQ has several facets that contribute independently to the prediction of well-being and mediate the relationship between meditation experience and well-being. Internal consistency is evidenced in the adequate to high alpha coefficients for all facets tested in multiple samples, which ranged from (.72 to .92).

**Conclusion**

Poor responsiveness to the mental health concerns of inmates contributes to their difficulties in prison, continued criminal activity, and higher recidivism rates (Kubiak, 2004). Particularly troubling is the lack of attention being paid to trauma-related mental health concerns in inmate populations (Goff et al., 2007). The above Meditative Exposure Therapy program is a proposal for a treatment approach for PTSD in inmates that combines two efficacious therapeutic approaches: Prolonged Exposure Therapy and Mindfulness Based Stress Reduction. By combining these two treatments, inmates will be offered a first-line treatment for PTSD enhanced with emotional regulation skill delivery, which may aid in longer-term recovery and rehabilitation. We feel that the introduction of this proposed program will offer a more comprehensive mental health treatment for inmates with trauma, thereby by improving their chances for meaningful rehabilitation, reducing their propensity toward criminal activity, and ultimately, improving the quality of their lives.

**References**


Abstract

Autism spectrum disorder (ASD) is a neurodevelopmental disorder involving social-communication deficits, and rigid and repetitive behaviours. Individuals with ASD also demonstrate emotion-processing deficits, such as difficulties recognizing their own or others’ emotions. There is evidence to suggest that co-occurring alexithymia, or difficulties recognizing emotions within oneself, and not ASD may account for these difficulties. This paper reviews the literature about alexithymia to better understand emotion recognition skills in ASD. Implications are discussed in terms of possible therapeutic interventions involving alexithymia, which may improve emotional and social outcomes among those with ASD.

Autism Spectrum Disorder and Emotion Recognition Skills

Emotion recognition skills emerge at an early age. Typically developing children distinguish between basic emotions as early as 7 months old, and around 9 months old, babies use facial expressions to gauge situations using social referencing (Walker-Andrews, 1998). Of the basic emotions, children learn to recognize happiness and sadness first and later fear and disgust (Camras & Allison, 1985). As children grow up, their ability to correctly identify facial emotions improves (Durand, Gallay, Seigneuret, Robichon, & Beaudoin, 2007). These basic skills are important to social development because they help children learn about others’ feelings and serve as prerequisite skills for higher order emotional processing (Uljarevic & Hamilton, 2013).

Children with ASD struggle with emotion recognition skills, which can hinder their learning about others’ emotions and in turn, impact their social relationships (Uljarevic & Hamilton, 2013). However, the ASD literature is divided on whether deficits in
emotion recognition are a characteristic feature of ASD. Some studies show individuals with ASD having emotion recognition deficits compared to controls (e.g., Bal et al., 2010; Corden, Chilvers, & Skuse, 2008; Lindner & Rosen, 2006), while others have not found such deficits (e.g., Castelli, 2005; Robel et al., 2004; Rosset et al., 2008; Rutherford & Towns, 2008). These mixed findings emerge in children (e.g., Balconi, Amenta, & Ferrari, 2012; Rump, Giovannelli, Minshew, & Strauss, 2009) and in adults (e.g., Ashwin, Chapman, Colle, & Baron-Cohen, 2006; Humphreys, Minshew, Leonard, & Behrmann, 2007; Wallace, Coleman, & Bailey, 2008) with ASD. Some studies have concluded that individuals with ASD have difficulty identifying negative emotions, such as fear (e.g., Humphreys et al., 2007; Pelphrey et al., 2002; Wallace et al., 2008), disgust, and sadness (Wallace et al., 2008), rather than having a global deficit in emotion recognition skills (Ashwin et al., 2006). One potential reason for these inconsistencies may relate to functioning level. That is, the ASD literature consists of both low and high functioning children, whereas the adult ASD literature is skewed with mostly high functioning individuals (Harms et al., 2010). Functioning level is an important factor to consider because intellectual quotient (IQ; i.e., intelligence and problem solving skills [Wechsler, 2008]) is related to the ability to understand emotions among children with ASD (Dyck, Piek, Hay, Smith, & Hallmayer, 2006). These inconsistencies call for a strong, evidence-based consensus about the emotion recognition skills of individuals with ASD (Lozier, Vanmeter, & Marsh, 2014).

**Autism Spectrum Disorder and Alexithymia**

Alexithymia is a Greek word which translates into “lacking words for feelings” and is characterized by difficulties experiencing and explaining one’s own emotions (Lumley, Neely, & Burger, 2007). People with alexithymia respond with vague answers, seem confused, or talk about physical sensations when asked about feelings (Lumley et al., 2007), potentially because they cannot identify their own emotions (Bird & Cook, 2013). Although alexithymia is not a formal diagnosis, it is often associated with poor physical and mental health (e.g., depression, anxiety; Lumley et al., 2007). Thus, understanding alexithymia and its relationship with ASD can help clinicians with case conceptualizations and treatment selection (Lumley et al., 2007).

Approximately 42 to 55 percent of individuals with ASD experience alexithymia (Ketelaars et al., 2016; Milosavljevic et al., 2016) compared to only 10 percent of the general population (Salminem, Saarijarvi, Aarela, & Toikka, 1999). Bird and Cook (2013) argue that the mixed results of emotion recognition studies can partly be attributed to the high rate of alexithymia in individuals with ASD. As such, they developed the Alexithymia Hypothesis, which suggests that emotion recognition difficulties in individuals with ASD can be attributed to co-occurring alexithymia (Bird & Cook, 2013). Given the high incidence of alexithymia in individuals with ASD, it is important to examine emotion recognition skills more closely in this population. This is particularly the case given that emotion recognition and ASD studies did not concurrently measure alexithymia, and so it is possible that a confounding variable might explain their results (Cook et al., 2013).

Cook and colleagues (2013) sought to identify whether ASD features or alexithymia were associated with difficulties on an emotion recognition task. These researchers recruited 32 alexithymia-matched participants in two groups: 16 participants with ASD (15 males, M age = 39 years) and 16 participants without ASD (12 males, M age = 33 years). Results indicated that no differences existed between the two groups on their emotion recognition abilities, likely because these groups were matched on alexithymic features (Cook et al., 2013). In the overall sample, alexithymic features accounted for a substantial amount of the variance in emotion recognition skills, whereas ASD features did not (Cook et al., 2013). These results suggest that associated alexithymic features, not ASD features themselves, may account for the emotion recognition difficulties in individuals with ASD.

The fact that alexithymic features overlap with emotion recognition abilities can be explained through the Shared Network Hypothesis. This hypothesis posits that alexithymia co-occurs or possibly underlies emotion-recognition difficulties because the same neural networks are required to process one’s own and others’ emotions (Bird et al., 2010). A specific part of the brain known as the anterior insula has a “dual function” for representing subjective feelings (i.e. feelings within oneself) and empathy (i.e. understanding others’ emotions; Singer et al., 2004; Singer, Critchley, & Preuschoff, 2009). Recent research on the anterior insula suggests that it is important for emotional awareness (Gu, Hof, Friston, & Frans, 2013). For example, this region is activated and causes the observer to feel disgust by viewing another person’s disgusted face (Singer & Tusche, 2014). Overall, both the Alexithymia Hypothesis and the
Shared Network Hypothesis help explain the overlap between alexithymia and emotion recognition difficulties. That is, if people have difficulty identifying emotions within themselves, it follows that they would struggle to identify others’ emotions, given that the same brain areas are needed for these skills (Singer et al., 2004; Singer et al., 2009).

**Significance and Future Research**

Further research is needed to understand the relationship between alexithymia and emotion recognition in individuals with ASD. Specifically, matching participants with ASD and controls on their alexithymic features or controlling for alexithymic features in statistical analyses might elucidate the inconsistent findings on whether individuals with ASD truly exhibit emotion recognition deficits (Cook et al., 2013). Examining alexithymia and emotion recognition may also provide information about characteristics of subgroups of individuals with ASD, which may inform treatment-planning decisions (La, Lombardo, Chakrabarti, & Baron-Cohen, 2013; Milosevliejc et al., 2016). Finally, shedding light on the relationship between alexithymia and emotion recognition may help individuals with ASD to access appropriate therapy (Kennedy & Franklin, 2002). This therapy may allow those with ASD and alexithymia to focus on recognizing feelings within themselves and others while improving their social relationships.

**References**


Abstract

This study investigated how women’s state self-esteem is affected by viewing thin or curvy images of female bodies. Female undergraduate students aged 19 to 26 years from St. Mary’s University in Calgary, Canada were shown three drawings of thin female bodies (N=24) or three drawings of curvy female bodies (N=24). Participants rated each drawing on its appeal using a Likert scale from 1 to 5 (not at all to extremely appealing), and then completed the social and appearance self-esteem dimensions of the State Self-Esteem Scale (SSES). No significant effect between viewing thin images and state self-esteem was found; however, the thinnest image was rated significantly less attractive than all other images. Future researchers should attempt to establish if women’s perceptions of acceptable body types are shifting away from the thin ideal in Western society.

Résumé

La présente étude porte sur la façon dont l’estime de soi situationnelle des femmes est affectée par l’observation d’images de femmes au corps mince ou au corps plantureux. On a présenté à des étudiantes de premier cycle, âgées de 19 à 26 ans, de l’Université Saint Mary’s de Calgary, au Canada, trois dessins de femmes au corps mince (N = 24) ou trois dessins de femmes au corps plantureux (N = 24). À l’aide d’une échelle de Likert de 1 à 5 (de « pas du tout attirant » à « extrêmement attirant »), les participantes ont évalué chaque dessin en fonction de sa beauté et ont ensuite rempli les dimensions de l’estime de soi sur le plan social et sur le plan de l’apparence de la State Self-Esteem Scale (SSES). Aucun effet significatif n’a été observé entre l’observation de dessins de femmes minces et l’estime de soi situationnelle; toutefois, l’image de la femme la plus mince a été, dans une proportion importante, jugée moins attirante que toutes les autres images. Les chercheurs devraient tenter d’établir si les perceptions des femmes quant aux types de corps acceptables sont en train de changer et de délaisser l’idéal de minceur véhiculé dans la société occidentale.
versal social influence (Harper & Tiggemann, 2008). In Western society, fashion magazines are notorious for introducing and advocating for the thin ideal which has been associated with widespread body dissatisfaction (Forbes, Doroszewicz, Card, & Adams-Curtis, 2004). For example, Strahan et al. (2006) found that women reported feeling bad about themselves after viewing a very attractive female model. Bessenoff (2006) found that female undergraduate students exposed to thin ideal images exhibited an increase in negative mood, lowered self-esteem, and higher body dissatisfaction. Engeln-Maddox (2005) reported that women with straighter, tube-like physiques are becoming increasingly socially rewarded due to the media’s depiction of the thin ideal as the most appealing body type, and exposure to thin tube-shaped female physiques has been associated with adverse effects such as anxiety and depression (Monro & Huon, 2005; Strahan et al., 2006). In addition, Harper and Tiggemann (2008) indicated that women who viewed thin ideal images reported an increase in weight and appearance-related anxiety and self-objectification, as well as a decrease in intrinsic motivation and self-efficacy. Furthermore, Klaczynski, Goold, and Mudry (2004) found that girls and women who perceived themselves as failing to achieve standards of the thin ideal reported feeling weak and insufficiently skilled and motivated with regards to maintaining these unrealistic expectations. In fact, between 1997 to 2007, the number of cosmetic procedures performed on people rose by an astonishing 457%; and just over 90% of these people were women (Jhally, Kilbourne, and Rabinovitz, 2000). Despite these efforts, women are more likely (than men) to be unhappy with their bodies for most of their lives (Feingold & Mazzella, 1998). For instance, research indicates that 85-90% of women report being dissatisfied with their body type (Strahan et al., 2008), even though 44% of women aged 18 to 79 years old report a normal BMI (Statistics Canada, 2011). As such, women of normal height and weight may be negatively impacted by thin ideal images because they believe that they fall short of impractical societal standards, leading to decreased self-esteem and body satisfaction, negative self-perception, and ultimately, a large self-image discrepancy (Smeesters & Mandel, 2006; Bessenoff, 2006). Furthermore, young girls and women may fail to acknowledge the negative health consequences associated

Figure 1. Thinnest female body.  
Figure 2. Thin female body.  
Figure 3. Least thin female body.
with being underweight, such as osteoporosis and early death (Canadian Guide for Body Weight Classification in Adults, 2003). Therefore, if this unrealistically thin body type is in fact prevailing in Western society, it is not surprising that research shows both males and females rate underweight models as more attractive than normal and overweight models (Puhl & Boland, 2001; Wilson, Tripp, & Boland, 2005). By contrast, some research indicates that not all women are equally affected by the media’s influence regarding the thin ideal (Darlow & Lobel, 2010). For example, Holmstrom (2004) found that exposing women to slender figures had little to no effect on their body image. Bessenoff (2006) reported that related studies have shown either no relationship or inconsistent findings between thin ideal exposure and a negative body image. Furthermore, Tsai and Chang (2004) found that highly attractive models were less effective than normally attractive models in advertisements, and Sohn and Youn (2011) reported that using average-sized models was no more effective than using thin models in advertisements.

Festinger’s theory of social comparison (1954) indicates that humans are inclined to take part in social comparison with others to decide how and where we fit into society. Bessenoff (2006) defined thin ideal internalization as approval of, or strong agreement with, societal standards of slenderness. Therefore, in order for a person to be actively influenced by the thin ideal, two conditions must be met; first, the person must acknowledge that the thin ideal exists, and second, they must integrate the thin ideal concept into the schema they use when making judgements about themselves and other people (Forbes et al., 2004). This has implications for the way women perceive their actual selves in comparison to their ideal selves because this perception can change with exposure to thin ideal images (Holmstrom, 2004). Jung and Lee (2006) reported that the degree to which women value specific appearance-management practices varies depending on culture, but in general, collectivist cultures tend to value non-Western concepts, whereas individualistic cultures favor Western concepts such as the thin ideal (Markus & Kitayama, 1991). Triandis (1989) reported that collectivist cultures tend to favor interpersonal relationships and equality, whereas women in individualistic cultures place significant emphasis on social recognition and competitive triumphs. This creates tension between women in Western society because

Figure 4. Least curvy female body.  
Figure 5. Curvy female body.  
Figure 6. Most curvy female body.
they feel pressured to attain optimal thin features such as the largest breasts, the skinniest waist, and the blondest hair (Klaczynski, Goold, & Mudry, 2004; Grabe, Ward, & Hyde, 2008). Thus, if these unrealistic social comparison processes are active amongst young girls and women, this discrepancy may lead to feelings of anxiety, depression, lowered self-esteem and image (Monro & Huon, 2005; Strahan et al., 2006; Smeesters & Mandel, 2006; Bessenoff, 2006).

One feature of this research that requires more attention is the immediacy of these negative effects. If thin ideal images are universally persuasive in Western society, then a change in self-esteem should be evident immediately after exposure to these unrealistic images. According to Kinnally and Van Vonderen (2012), indirect exposure to media figures is strongly associated with self-esteem and peer perceptions. Furthermore, socioenvironmental aspects, peer perceptions, and self-esteem were the strongest factors associated with body dissatisfaction. This is a cause for concern for psychologists because body dissatisfaction increases the risk of developing eating disorders and body image disruptions in girls and women (Stice & Shaw, 2002). Therefore, if these negative perceptions can be produced upon direct exposure to thin ideal images, this may provide further information about the cognitive processes that are at play during females’ instant exposure to thin ideal images. The current study sought to explore the effects of thin images on women’s state self-esteem, suggesting that participants who viewed and immediately rated thin images would produce lower state self-esteem scores than those who viewed and rated curvy images. It was also hypothesized that the group of thin images would receive significantly higher appeal ratings than the group of curvy images.

Method

Participants

Forty-eight female undergraduate students aged 19 to 26 years ($M = 20.9, SD = 4.8$) were randomly recruited from St. Mary’s University in Calgary, Canada to take part in a study about women and body image. Information pertaining to ethnicity and cultural background were not collected.

Materials

Visual Stimuli. Six greyscale drawings of female bodies were composed by Dr. Kristin de Lima, TCMD, R.Ac in Calgary, Canada. Dr. de Lima was asked to draw three variations of each body type, and each figure was labeled according to the amount of fat each body exhibited. The drawings differed only from the waist down, and were rated on appeal using a Likert scale from 1 to 5 (not at all to extremely appealing).

The social and appearance self-esteem dimensions of the State Self-Esteem Scale (SSES; Heatherton & Polivy, 1991). The SSES is used to measure self-esteem at a certain point in time. This 20-item scale has been shown to be a reliable and valid measure of changes in self-esteem shortly after exposure to research manipulations (Heatherton & Polivy, 1991). The items are split into three categories of self-esteem; social, appearance, and performance. The social subscale measures public self-awareness; the appearance subscale gauges judgement of body size evaluation and physical appearance; and the performance subscale measures global self-esteem, trait anxiety, and depression (Daley, Jimerson, Heatherton, Metzger, & Wolfe, 2008). The items measuring performance self-esteem were omitted and replaced with filler questions because they did not measure characteristics that could be immediately quantified. Participant scores were obtained by summing all items (13 items were reverse-scored). Lower scores indicate lower state self-esteem, whereas higher scores reflect higher state self-esteem (Daley et al., 2008).

Procedure

Participants were randomly recruited in the foyer of St. Mary’s University in Calgary, Canada and asked if they would like to take part in a research study on women and body image. Participants were also recruited from two random lectures at St. Mary’s University with the permission of two university professors. Upon receipt of verbal and written informed consent, each participant was randomly assigned a booklet containing two measures; 1) three greyscale drawings of thin or curvy images, and 2) the State Self-Esteem Scale questionnaire, which was renamed to The Personal State Questionnaire in order to minimize response bias. Participants were instructed to complete the booklet individually and in the order it was presented. It took participants approximately 10 minutes to complete the booklet. Upon completion, participants were asked to look at 12 color pictures of cute animals to promote feelings of happiness and wellbeing after completing mea-
sures associated with personal thoughts and self-esteem. Once completed, participants were given three sheets; 1) a copy of their written informed consent, 2) a formal written debriefing sheet and, 3) a list of local medical and psychological services should they wish to seek such services. Participants were thanked for their participation and did not receive any reimbursement.

Results

It was hypothesized that participants who viewed thin images would score lower on the SSES than those who viewed curvy images. An independent t test was conducted to compare state self-esteem in the thin and curvy image conditions. There was no significant difference in scores for thin (M = 44.208, SD = 8.753) and curvy (M = 45.625, SD = 8.203) images on state self-esteem (p = .543).

It was also hypothesized that the group of the three thin images would receive the highest appeal ratings by participants. A 2 x 3 repeated measures ANOVA was conducted to compare the effect of appeal ratings on body type. There was no significant difference of appeal ratings (Wilks’ Lambda = .603, F(2,45) = 14.796, p = .000). However, there was a significant interaction for body type F(1,46) = 11.836; p < .001. Post-hoc analyses found that the thinnest image (M = 2.083, SD = .881) was rated significantly less appealing than the thin (M = 3.833, SD = .761), least thin (M = 3.500, SD = .933), least curvy (M = 3.708, SD = .908), curvy (M = 3.375, SD = 1.014), and most curvy images (M = 3.750, SD = .847).

Discussion

The results of this study were inconsistent with previous research showing that thin images had a significant effect on women’s self-esteem. Past literature noted that not all women are equally affected by thin ideal images (Darlow & Lobel, 2010), and the degree to which women are affected has to do with various factors that were not accounted for in this study (e.g. internalization level, degree of body dissatisfaction). However, this study was consistent with previous literature in that, greyscale drawings were not as effective in engaging participants as real-life images of female physiques. Moreover, implementing a free-response technique in this study to measure the personal outcomes of social comparison may have yielded more significant responses because a free-response measure allows participants to elaborate on their cognitions during exposure to thin ideal images (Smeesters & Mandel, 2006). There was a significant interaction effect of body type in the current study where the thinnest image was rated significantly and consistently as not at all appealing. This finding was contrary to the second hypothesis, which stated that the thin images would be rated significantly more appealing than the curvy images. Participants rated the remaining 5 images as somewhat appealing, meaning that they either did not internalize the images or they were unsure how to cognitively rate the greyscale stimuli. Given that the thinnest image was rated as the least appealing, participants may have perceived the image as an unattractive or emaciated female.

There were a couple of limitations in this study. First, the participants were all female undergraduate students from the same university aged 19 to 26 years old. Future researchers should include male and adolescent participants in order to expand the generalizability of this research, which may provide further information regarding self-perceptions of the human body. Secondly, the use of greyscale stimuli in this study likely contributed as a confounding factor because there was likely a strong dissimilarity between participants and the stimuli they were rating. As such, future researchers should use real-life images of male and female bodies to intensify the perceived connection between participants and stimuli. By doing so, they may increase the authenticity of participant responses, which would ultimately strengthen the study’s results.

If mass media in individualistic cultures continues to endorse the thin ideal body type as the most attractive, this unrealistically thin figure will surely continue to be desirable to young girls and women in Western society. Thus far, the research on this topic has produced mixed results in terms of physical and psychological effects on females. Whereas thin ideals images had little to no effect on some female observers, and images of overweight women had a significant positive effect on female body image (Holmstrom, 2004), the current study found that the thinnest image was rated as the least attractive by female participants. Therefore, an alternate explanation for this finding could be that women’s perceptions of acceptable body types are shifting away from the thin ideal. Future researchers should attempt to establish if thin ideal perceptions are being replaced with more realistic body types.
Abstract

Attention-Deficit Hyperactivity Disorder (ADHD) is a neurological disorder that affects an estimated 5-10% of school-aged children. The focus on deficits during diagnosis of ADHD can lead to negative connotations to the ADHD label, both for the child being diagnosed and those who interact with that child. Further, interventions for ADHD often include medication and/or behavioural management techniques, both of which can neglect the social-emotional domains of the child and have limited evidence of long-term effectiveness. As such, positive psychologists are calling for the inclusion of the strength-based approach to the diagnosis and treatment of ADHD. Recognition of strengths, resilience, and protective factors of the child with ADHD is important during both diagnosis and when considering treatment options for the child. The strength-based approach can reframe what it means to have ADHD and re-conceptualize how clinicians diagnose and support children with ADHD symptoms.

Résumé

le trouble déficitaire de l'attention avec hyperactivité (TDAH) est un trouble neurologique qui, d’après les estimations, toucherait de 5 % à 10 % des enfants d’âge scolaire. L’accent mis sur les déficits pendant le diagnostic de TDAH est souvent porteur d’une connotation négative associée à l’étiquette de TDAH, qui risque de faire souffrir tant l’enfant qui a reçu le diagnostic que les personnes qui l’interagissent avec lui. De plus, les interventions utilisées pour traiter le TDAH font souvent appel à la médication ou à des techniques de gestion du comportement, dont l’efficacité à long terme est peu prouvée et qui, dans plusieurs cas, négligent les capacités socio-émotionnelles de l’enfant. À ce titre, les psychologues qui utilisent l’approche de la psychologie positive réclament l’inclusion de l’approche fondée sur les forces pour diagnostiquer et traiter le TDAH. La reconnaissance des points forts, de la résilience et des facteurs de protection de l’enfant atteint du TDAH est importante pendant le diagnostic et lorsque vient le temps d’examiner les possibilités de traitement. L’approche fondée sur les forces est à même de recadrer ce que signifie d’avoir le TDAH et de re-conceptualiser la manière dont les cliniciens diagnostiquent et aident les enfants qui présentent les symptômes du TDAH.

Attention-Deficit Hyperactivity Disorder (ADHD) is a neurological disorder that has continuous and substantial impacts on individuals throughout their lifespan. It is common among children and adolescents, affecting an estimated 5-11% of school-aged children worldwide with the majority of symptoms often persisting into adulthood (Centers for Disease Control and Prevention, 2016; Polanczyk, de Lima, Horta, Biederman, & Rohde, 2007; Turgay et al., 2012). ADHD is characterized by symptoms of inattention, hyperactivity, and impulsivity. These symptoms can lead to functional impairments in academic, emotional, and social domains thereby putting individuals with ADHD at risk for negative outcomes such as school failure, relationship problems, substance abuse and engaging in risky behaviours (Barkley, Fischer, Smallish, & Fletcher, 2006; Bunford, Evans, Becker, & Langberg, 2015; Frazier, Youngstrom, Glutting, & Watkins, 2007; Kessler, 2006; Molina & Pelham, 2003). Later life outcomes are also often impacted by these symptoms and consequential negative outcomes; for example, being an adult with ADHD has been associated with poor work performance, unemployment, divorce, debt, and higher comorbidity of psychiatric disorders than those without ADHD (Barkley, Fischer, Smallish, & Fletcher, 2006; Kessler, 2006). As the underlying causes of this disorder are biological in nature, the current paradigm
informing ADHD diagnosis and treatment is based on the medical model. Biological underpinnings of ADHD manifest to impact psychosocial domains; therefore, proponents of positive psychology, the scientific study of strengths enabling individuals to thrive, are calling for a paradigm shift in how ADHD is viewed and advocating for a strength-based approach to this disorder (Climie & Mastoras, 2015).

**Diagnosis of ADHD**

Traditionally, ADHD is diagnosed by identifying the presence and severity of symptoms. The Diagnostic and Statistical Manual of Mental Disorders (5th ed.; DSM–5; American Psychiatric Association, 2013) is often used during the diagnostic process, focusing on the deficits and maladaptive functioning of the child (Wolraich et al., 2011). This approach to diagnosing ADHD is pathology-focused which can be problematic since attention is mainly drawn to the child’s disorder and deficits, with limited focus on their positive characteristics (Climie & Mastoras, 2015). This limited focus on the strengths and abilities of the child makes the pathology-focused paradigm of diagnosis inherently disempowering, possibly leaving the child feeling vulnerable (Mather, 2012). When their symptoms are framed in a negative way, a child with ADHD may come to perceive their personal characteristics as bad, and believe their worth is defined by their deficits (Mather, 2012). Their family can also be impacted by this paradigm of diagnosis, leaving them feeling helpless and/or eliciting negative reactions towards the child (Mather, 2012; McIntyre & Hennessy, 2012; Steiner, 2011). Research has found that parents displayed a more negative affect towards their child when the focus during diagnosis was on deficits rather than on the child’s strengths or potential (Steiner, 2011). In addition, within western society there are negative connotations and stigma associated with an ADHD diagnosis under the current paradigm. Parents of children with ADHD have reported that they encountered prejudice and discrimination as a result of having a child with ADHD, which they perceived was a result of society’s misunderstanding of ADHD and its current pathology-focused conceptualization (McIntyre & Hennessy, 2012).

Given its focus on pathology, proponents of positive psychology argue that the current method used to diagnose ADHD is limited and fails to capture the positive attributes and potential of the child (Climie & Mastoras, 2015). These researchers assert that a strength-based approach is needed to re-conceptualize what it means to be diagnosed with ADHD, a lifespan disorder with no “quick fix”. Compared to the traditional, pathology-focused approach to diagnosis, the strength-based approach promotes a more comprehensive assessment, identifying areas of strength, resilience, and protective factors that will help children to cope and develop skills, in addition to identifying the areas in which they are struggling (Climie & Mastoras, 2015; Portrie-Bethke, Hill, & Bethke, 2009; Rawana & Brownlee, 2009; Rhee, Furlong, Turner, & Harari, 2001). Strengths are skills, competencies, and characteristics of the child that can promote growth and development allowing them to thrive. These attributes can be identified in many different domains, including cognitive, academic, and social-emotional functioning, and can serve to support the child with ADHD in their areas of difficulty. For example, researchers have found that academic buoyancy, the ability to overcome setbacks and challenges in the ordinary course of everyday academic life, is a characteristic found in students with ADHD and is associated with better academic achievement by these students when compared to their typical peers (Martin, 2014). Protective factors have been identified that can build resilience in children with ADHD and help them to “overcome the odds” (Rhee et al., 2001). For example, research has found that children diagnosed with ADHD who perceive that they are competent and socially accepted have better academic and emotional outcomes, such as less depressive symptoms and higher achievement in school (Dvorsky, Langberg, Evans, & Becker, 2016; McQuade, Hoza, Murray-Close, Waschbusch, & Owens, 2011). During diagnosis, there are many ways to identify areas of strength and protective factors including: standardized measures like the Woodcock-Johnson, Fourth Edition, Tests of Cognitive Abilities; rating scales such as the Behavioral and Emotional Rating Scale, Second Edition; or interview questions designed to obtain information about all areas of the child (Epstein & Sharma, 1998; Rawana & Brownlee, 2009; Schrank, McGrew, Mather, 2014). This positive psychology approach is a more holistic way of perceiving ADHD and does not seek to deny or ignore difficulties experienced by diagnosed children. Instead, this approach recognizes that the way in which ADHD is diagnosed often leads to interventions that may be inadequate in meeting the diverse needs of this population (Climie & Mastoras, 2015). The strength-based approach seeks to shift the way in which diagnosis, treatment, and research for ADHD is conducted, both to empower these chil-
Interventions for ADHD

Traditionally, interventions for ADHD include medical interventions, primarily pharmacological treatments, and behavioural management interventions. Though pharmacological treatments have been found to be effective for short-term reduction of symptomatology, these medications do not address the latent complex issues elicited by the presence of symptoms, such as those in social and emotional domains (Climie & Mastoras, 2015; Jensen, 2007). Initial severity of symptoms, comorbid conduct problems, intelligence, and social advantage play a large role in prognosis in the later years of a child’s life, regardless of engagement in pharmacological interventions (Molina & MTA Cooperative Group, 2009). This points to a need to identify interventions that address all domains of the child’s life.

Behavioural management approaches are also used to intervene and have been found to be effective in reducing hyperactivity and improving attention among children diagnosed with ADHD (Lessing & Wulffsohn, 2015; Pfiffner & Haack, 2014). However, these interventions can negatively impact the child as they emphasize what the child cannot do rather than what they can do, and further, if the child is unable to achieve the goals of the intervention, feelings of frustration are increased for that child (Climie & Mastoras, 2015; Pfiffner & Haack, 2014). Additionally, past research has shown that external rewards do not elicit intrinsic, long-lasting behavioural changes; in fact, it has been found that external rewards are detrimental in that they diminish intrinsic motivation in the future (Deci, Koestner, & Ryan, 1999). Behaviour management techniques are useful in managing the behaviour of children with ADHD, but as with medication, they seem to merely offer a temporary solution and do not address all of the challenges engendered by the disorder.

A strength-based approach to interventions for ADHD emphasizes ways in which characteristics of this disorder might be a child’s strengths, rather than weaknesses. As stated by one of the founders of positive psychology and former American Psychological Association president, Martin Seligman (1998): “Treatment is not just fixing what is broken; it is nurturing what is best within ourselves” (p. 2). For example, children with ADHD have been found to have positive characteristics such as higher levels of creativity, thus generating more original and unique responses than their typically achieving peers, as well as high energy and attention-seeking, which can be used to complete tasks and have effective interactions (Abraham, Windmann, Siefen, Daum, & Güntürkün, 2006; Portrie-Bethke et al., 2009). Furthermore, the impulsivity that is displayed in children with ADHD can be indicative of cognitive engagement in classrooms (Tymms & Merrell, 2011). Indeed, Tymms and Merrell (2011) have found that the impulsivity displayed by students with ADHD was associated with higher academic achievement. In fact, three criteria from DSM-5 (American Psychiatric Association, 2013) that are used for diagnosis of ADHD (i.e., 1. Blurs out an answer before a question has been completed; 2. Has difficulty waiting his or her turn; 3. Interrupts or intrudes on others, e.g., pushes into conversations or games), implying the dysfunctional nature of these characteristics, were associated with higher academic attainment (Tymms & Merrell, 2011). As such, it is important to consider how characteristics of those with ADHD can be advantageous and harnessed into strengths that support adaptive-functioning.
**Future Directions**

The strength-based approach is an innovative way of diagnosing and intervening on children with ADHD, but this perspective is still within the preliminary stages of development and empirical support. Future directions include identifying common areas of strength of children with ADHD to understand how they can cope and how to best support them (Climie & Mastoras, 2015). Furthermore, understanding which protective factors promote the best possible outcomes for these children is also important (Climie & Mastoras, 2015). The strength-based approach requires a reconceptualization in how ADHD is diagnosed and treated, which will require that it be translated into practical and useful guidelines and tools that can be used by clinicians and within schools (Mather, 2012). To successfully utilize this approach, additional training and/or changes to clinicians’ practices may be necessary. However, to date, there has been limited research conducted on strength-based approaches. Thus, to ensure the approach is being used to its maximum potential, more research is needed to understand how to utilize it in the treatment of children with ADHD, as well as to understand its long-term impact (Climie & Mastoras, 2015; Steiner, 2011).

**Conclusion**

Advocates for a strength-based approach do not deny the usefulness of understanding an individual’s deficits and using proven interventions to support them. They assert, however, that there also needs to be a focus on the individual’s strengths and the resources available to them. Instead of focusing solely on how underlying differences between typically developing children and children with ADHD are limiting, it is important for prognosis and intervention planning to understand ways in which these characteristics make children with ADHD unique and enable them to contribute to society in ways that their typically achieving peers may not. Focusing on strengths gives these children a unique advantage and using their strengths to compensate for their weaknesses can build resilience and foster better overall outcomes. The strength-based approach can work with the current model of diagnosis and treatment of ADHD through reframing of what it means to have the disorder and re-conceptualizing how we can support diagnosed individuals.

**References**


Abstract

At times children must be interviewed about events they personally experienced or witnessed. Rapport building with the interviewer has been shown to facilitate accuracy and self-disclosure of information. Rapport is the establishment of a mutual, comfortable, caring relationship. Interviewers use specific verbal and nonverbal behaviours in order to build rapport with children. Commonly used interview practices (e.g., protocols, rapport-building techniques) and future directions are discussed.

Résumé

Parfois, les enfants doivent être interrogés sur des événements qu’ils ont vécus personnellement ou dont ils ont été témoins. Il a été démontré que l’établissement d’une relation de confiance avec la personne qui interroge l’enfant améliore l’exactitude du témoignage et facilite l’autodivulgation de l’information. La relation de confiance est le résultat d’une relation mutuelle, empreinte de bienveillance, et dans laquelle on se sent à l’aise. La personne qui interroge a recours à des comportements verbaux et non verbaux particuliers pour créer une relation de confiance avec l’enfant. Les pratiques d’interrogatoire les plus utilisées (p. ex.. protocoles, techniques d’établissement d’une relation de confiance) et les orientations futures sont examinées.

The Effects of Interviewer Rapport on Children’s Memory Recall During Forensic Interviewing

Natalie Frost, M.A., University of Windsor

Obtaining accurate child testimonies is often a key component of abuse and criminal cases where a child is the eyewitness. To facilitate the memory recall of children, rapport is frequently established between the interviewer and child prior to the interview of the event. Establishing rapport may make children feel more comfortable disclosing their experiences to interviewers. However, it is not guaranteed that what they recall in their testimonies will be accurate. Suggestibility is the extent to which one’s belief in information provided during social interactions is influenced by cues that are presented (e.g., phrasing, assumptions, type of question asked). Children suspected of abuse and neglect have been found to be more suggestible than children without abuse or neglect concerns (Eisen, Goodman, Qin, Davis, & Crayton, 2007). Accurately recalling specific details about events assists interviewers and the criminal system solve cases and protect children. However, accuracy of information may be compromised by suggestibility during interviewing. Strategies that enhance children’s disclosure and accuracy of information (e.g., rapport building) are greatly needed for these reasons. Research on cognitive abilities has been used to create interview protocols by which children are interviewed. Many protocols require interviewers to build rapport with children prior to interviewing. The facilitative effects of building rapport with children prior to forensic interviewing, will be discussed further.

Rapport

Rapport has been defined in numerous ways depending on the context it is being used in (Bernieri, 2005; Faranda & Clarke, 2004; Tickle-Degnen & Rosenthal, 1990). For this paper, rapport will be defined using the most cohesive description in relation to forensic interviewing. Specifically, when a forensic interviewer seeks to establish rapport with a child eyewitness, they are seeking to establish a trusting relationship where relevant information can be comfortably shared (Collins, Doherty-Sneddon, & Doherty, 2014).

Numerous verbal and nonverbal behaviours are associated with rapport building. Verbal behaviours that foster rapport include the use of emotion words, reflections, restatements, saying the child’s name, welcoming them, empathizing with their feelings, and discussing topics of interest to them (Hershkowitz, Lamb, & Katz, 2014; Ruddock, 2006). Reflections are when interviewers reflect back the emotional state the child mentioned (e.g., “So you must have been feeling angry then”; Ruddock, 2006). Restatements are simply when interviewers repeat what the child said. Non-
verbal behaviours used to build rapport include head nods, eye contact, leaning towards the child, and smiling (Hershkowitz, Lamb, & Katz, 2014; Ruddock, 2006). Researchers have also found that smiling is positively associated with perceived rapport with children (Rotenberg et al., 2003). In a study by Rotenberg and colleagues (2003), adults read stories to preschool children while smiling for low or high frequencies. Children rated the trustworthiness and likeability of the adult greater when the frequency of smiling was higher. Children’s impressions, based on their observations of others’ verbal and nonverbal behaviours, can form in a brief amount of time.

It has been found that children as young as eight years old can accurately describe other children’s personality traits after having viewed less than two minutes of their behaviour (Mclarney-Vesotsky, Bernieri, & Rempala, 2006). This suggests that children may form accurate first impressions of the interviewer. If their first impression is negative, the interviewer may struggle to build rapport and make the child feel comfortable in the interview environment. Research by Gurland and Grolink (2003) suggests that displaying warmth and interest may help interviewers establish a positive impression and rapport with the child. In this study they measured children’s perceptions of interviewers. They found that children gave higher ratings of perceived rapport with the interviewer when encouragement and genuine interest are displayed. Overall, research findings suggest that children are able to form first impressions and recognize and respond to verbal and nonverbal behaviours commonly used to establish rapport in interviews.

Positive effects of Rapport in Interviewing Memory Recall

As previously mentioned, rapport is a positive connection between the interviewer and the interviewee. Rapport between an interviewer and child has been associated with greater rates of self-disclosure of abuse in cases of suspected abuse (Hershkowitz, Lamb, & Katz, 2014; Ruddock, 2006), and greater accuracy in event recall (Almerigogna, Ost, Akehurst, & Fluck, 2008). Both of these elements contribute to provide a more thorough picture of events that occurred which can then assist professionals involved in criminal cases.

Self-Disclosure

It is required by law across Canada for professionals to report any suspected cases of child abuse to the appropriate authorities (e.g., Queen’s Printer, 1990; 2016). This is to ensure the child’s safety and well-being. However, witnesses of abuse may be rare and research suggests that the majority of children who are abused will not self-disclose their maltreatment (London, Bruck, Ceci, & Shuman, 2005). Building rapport with children suspected of being abused prior to interviewing may make self-disclosure more comfortable and easier for them. In a study by Hershkowitz, Lamb, and Katz (2014), two interview protocols were compared to examine their effectiveness in facilitating over four hundred children’s self-disclosure of abuse. The first interview protocol used was the National Institute of Child Health and Human Development Investigative Interview Standard Protocol (SP). It consists of an introductory phase (e.g., introductions, task instructions); rapport-building phase (e.g., open-ended personal questions, practice recalling a neutral event); and a transitional phase (e.g., open-ended prompts about the suspected abuse event that gradually become narrower and make references to known information such as physical injuries). The second interview protocol used was based on the SP but included verbal and nonverbal behaviours shown to build rapport. These included talking about topics that are of interest to the child, addressing the child by their name, welcoming them, empathizing with their feelings, leaning toward the child, smiling, and establishing eye contact. Additional evidence was provided that confirmed abuse had occurred so the validity of the children’s disclosure was not in question. The researchers found that rates of self-disclosure of abuse allegations were increased by 18.8% when children were interviewed using the rapport enhanced protocol compared to children that were interviewed using the SP.

Similarly, Ruddock (2006) found that behaviours associated with rapport (e.g., use of emotion words, reflections, head nods, restatements, and eye contact) were associated with greater self-disclosure of sexual abuse by children. In particular, all of these behaviours were related to longer responses to questions in the interview. Furthermore, the use of emotion words and reflections by interviewers positively predicted greater details about the abuse that were disclosed by the child. From these studies, building rapport with children was found to be beneficial to interviewers. Specifically, greater self-disclosure of abuse was obtained when children experienced rapport with the interviewer than when children did not experience rapport.
Greater Accuracy

Due to children’s cognitive limitations, including rudimentary encoding and retrieval strategies, the accuracy of children’s memories is sometimes questioned. Accurate reporting is important in the legal system because allegations of child abuse are not taken lightly. Rapport has been shown to elicit more accurate responses and fewer inaccurate responses from children during interviews. By building rapport with children, interviewers may be increasing the validity of the child’s statements.

Researchers have found that children’s accuracy in memory recall may be influenced by the characteristics of the interviewer. Almerigogna, Ost, Akehurst, and Fluck (2008) asked eight to ten year olds to recall events from a lab activity they participated in one week prior. They were asked to recall information from these events by either a supportive (friendly, smiling) interviewer or a nonsupportive (strict, fidgeting) interviewer. Information provided by the children that were interviewed by the nonsupportive interviewer had fewer accurate responses and more inaccurate responses than the responses children provided when interviewed by a supportive interviewer. Additionally, when asked if the interviewer had touched them in the lab activity, 19% of the children interviewed by the nonsupportive interviewer made false reports of being touched. This research suggests that nonsupportive interviewers may unknowingly be contributing to the amount of false child abuse allegations. It also suggests that children’s memory recall accuracy may be improved by having a friendly, smiling interviewer conduct the interview.

In accordance with these findings, Quas and colleagues (2005) also found that children who were interviewed by nonsupportive interviewers had less accurate responses (i.e. greater number of errors) to specific questions than children interviewed by supportive interviewers. A possible interpretation of Quas and colleagues’ (2005) findings are that children who are interviewed by supportive interviewers may be able to provide more specific answers because they experience comfort and thus a reduced need to avoid distressing stimuli and fewer demands on their working memory. Contrastingly, it is possible that children who are interviewed by a nonsupportive interviewer feel more pressure to answer which places more demands on their working memory to retrieve information and may increase anxiety. It has been found that anxiety decreases children’s working memory performance including the ability to recall information (Hadwin, Brogan, & Stevenson, 2005; Saywitz & Nathanson, 1992). Therefore, it is possible that children interviewed by nonsupportive interviewers may display less accurate information than children who established rapport and felt supported by their interviewer.

Limitations and Suggestions for Rapport-Building Procedures

Frequently used rapport-building techniques as previously mentioned, are not without their limitations. For example, it is estimated that children with developmental disabilities are more likely to be maltreated than children without disabilities in Canada (Roeher Institute, 2000). Depending on their level of functioning, these children may be interviewed on suspected child abuse incidents. It is commonly known that the diagnoses of many developmental disorders are associated with symptoms of social functioning deficits (e.g., lack of social interest, impaired receptive language skills, poor communication skills; American Psychiatric Association, 2013). Therefore, children with developmental disorders may not attend or respond to verbal and nonverbal behaviours typically used to build rapport.

As previously mentioned, suggestibility is a concern when assessing the accuracy of child testimonies. One possibility to reduce this concern may be to teach children metacognition skills during rapport-building phases prior to interviewing (e.g., evaluating their own knowledge base). If children are able to more accurately assess information that they know to be true and inhibit information that they are not confident they witnessed, it may decrease their vulnerability to accepting misinformation. A simple strategy that could be examined is asking children during interviews if the information is something that they personally remember or if they heard it from someone else.

Forensic Interviewing Procedures with Children

For the past twenty years, the cognitive interview has been used by professionals to interview children about past events. Originally developed by Fisher and Gieselman (1992), the cognitive interview uses strategies based on cognitive research (Flexser & Tulving, 1978; Melton, 1963; Loftus & Palmer, 1974; Tulving, 1974; Tulving & Thomson, 1973) to facilitate the recall of events. Some of these strategies include mentally imagining the event (also known as cognitive reinstatement), reducing visual interference by clos-
ing eyes during recall, being aware of the interviewee’s current thoughts and mental images, minimizing new false memory construction, and effectively communicating the procedures to the interviewee. Researchers have found that when the cognitive interview is used with children, they correctly recall more specific event details than children interviewed with an alternate interview protocol (Akehurst, Milner, & Kohnken, 2003; Larsson, Granhag & Spjut, 2003; Holliday, 2003). This suggests that the cognitive interview is a more effective means of collecting sensitive information from children about past events than interviewing methods that do not use cognitive strategies (e.g., SP).

According to this protocol, interviewers are encouraged to build rapport with interviewees during the introductory phase of the interview. It is suggested that rapport be established by personalizing the interview and communicating empathy (Fisher & Geiselman, 1992). Interviewers can personalize the interview by frequently using the interviewee’s name and getting to know the interviewee as an individual. Communicating empathy requires the interviewer to actively listen to and acknowledge the interviewee’s feelings and concerns about the situation. A study by Saywitz, Geiselman, and Bornstein (1992) found that questions detectives used to facilitate rapport with children prior to the cognitive interview related to their school activities, personal details (e.g., age), the interview procedure, and their family. These are some of the strategies interviewers currently use to try to establish rapport with children. These strategies have evolved over time as research in this area progresses (Colomb, Ginet, Wright, Demarchi, & Sadler, 2013; Davis, McMahon, & Greenwood, 2005; Holliday 2003; Memon, Meissner, & Fraser, 2010). It is expected that more strategies to build rapport specifically with children will be developed and implemented in interview protocols in the future.

Conclusions

Currently, it appears that rapport is related to numerous beneficial results from forensic interviewing including greater self-disclosure and accuracy in reporting. It is based on these benefits that building rapport with interviewees is encouraged prior to standard interview procedures (Fisher & Geiselman, 2010). Two of the most commonly used protocols—the National Institute of Child Health and Human Development Investigative Interview and cognitive interview—incorporate rapport-building components.

However, rapport-building practices prior to interviews with children with developmental disorders is not well-established. Researchers should explore other avenues of rapport development with children who may lack verbal and social interaction skills. Future research should also seek to maximize rapport’s beneficial contributions (e.g., greater detail, lengthier responses, greater accuracy) while finding ways to control for its limitations (e.g., suggestibility). Researchers have begun to explore how preschoolers experience feelings of uncertainty which is an important step in assessing children’s perceived accuracy of memories and metacognitive abilities (Ghetti, Hembacher, & Coughlin, 2013). Researchers are encouraged to explore the combined effects of rapport and metacognitive skills on children’s recall of memories in order to facilitate the self-disclosure of child abuse and neglect.

References


The Canadian Psychological Association (CPA) was organized in 1939 and incorporated under the Canada Corporations Act, Part II, in May 1950.

**CPA’s objectives are:**
- To improve the health and welfare of all Canadians;
- To promote excellence and innovation in psychological research, education, and practice;
- To promote the advancement, development, dissemination, and application of psychological knowledge; and
- To provide high-quality services to members.

**Benefits and services of CPA membership include, but are not limited to:**
- CPA Journals
- Psynopsis (Canada’s psychology magazine)
- CPA News (CPA’s electronic newsletter)
- Reduced fees for access to APA’s PsycNET® GOLD package
- Publications
- CPA’s Annual Convention
- Awards
- Advocacy
- Sections and Special Interest Groups
- Continuing Education
- Accreditation
- Liability Insurance
- Personal Home and Auto Insurance
- Student Members (living in Canada) receive a complimentary CPA Student Price Card
- Pro Bono Legal Advice
- Laptop Theft Recovery
- Practice and Personal Banking Products

Visit [www.cpa.ca/membership/becomeamemberofcpa](http://www.cpa.ca/membership/becomeamemberofcpa) to join today!