

Clinical Externship in Pediatric Neuropsychology & the Center for Autism Spectrum Disorders (CASD)

Training at Children's National

We offer 12-month, 16-hour a week, pre-doctoral externship practicum in pediatric neuropsychology or CASD. Our neuropsychology training combines clinical and didactic activities to prepare the trainee to be a good consumer of neuropsychology or for future training and practice as a neuropsychologist. CASD provides expertise in assessment and intervention for children with ASD.

A typical training week would include one clinic day during which the extern will be directly evaluating a child or adolescent and scoring completed test instruments. The second training day allows for supervision, report writing, and didactics.

The patient population at Children's National is culturally diverse, providing trainees with the opportunity to work with families from a variety of backgrounds. Externs learn to evaluate children with a wide range of complex developmental and acquired neurological disorders, such as autism spectrum disorders, ADHD, learning disabilities, epilepsy, mild traumatic brain injuries/concussion, cancer and hematological conditions (leukemia, brain tumor, sickle disease), congenital heart cell disease, neurofibromatosis and other genetic conditions, structural anomalies, and history of neurological insult associated with prematurity, infectious disease, or stroke. Referral questions most often relate to the child's profile of cognitive strengths and weaknesses, diagnostic concerns, and educational and therapeutic program planning. Much of our service includes multidisciplinary interactions.

The Division of Pediatric Neuropsychology at Children's National program is under the direction of Gerry Gioia, Ph.D., and includes 12 faculty neuropsychologists, four pediatric psychologists, six postdoctoral fellows, as well as multiple predoctoral interns and externs. Our faculty and fellows are involved in grant-funded *clinical research*, and our team contributed over 30 publications last year within high impact, peer-reviewed journals. Our neuropsychology faculty members are leaders in the field, serving as chair and committee members, grant reviewers, and panel experts for national and international societies, research consortiums, and foundations. This high level of expertise, combined with our location in the Washington DC area, uniquely positions us for involvement in *legislative advocacy* related to issues such as mild TBI in children and autism spectrum disorders.

About Children's National Serving the nation's children since 1870, Children's National is a leading clinical and research institution, and is the only exclusive provider of pediatric care in the metropolitan Washington area. Children's National offers services at the main hospital in the District of Columbia and at regional satellites throughout the DC area. The Division of Pediatric Neuropsychology and CASD have their main offices at a regional outpatient center in Rockville, Maryland, and also serve children at the main hospital and at additional satellite locations in Maryland and Virginia.

Children's National is the pediatric teaching hospital for the George Washington University School of Medicine and Health Sciences. Psychologists at Children's National hold academic appointments in the Department of Psychiatry and Behavioral Sciences and the Department of Pediatrics at the medical school.

The atrium of Children's National – main hospital campus



Clinical Experiences

There are four types of positions available, three of which provide extensive neuropsychological experience, but with different populations, including the *Pediatric Neuropsychology/General, Safe Concussion Outcome, Recovery & Education (SCORE),* and *Center for Autism Spectrum Disorders (CASD Neuropsychology).* Our fourth training opportunity is a *Clinical Psychology externship within CASD,* for which the focus is on intervention and treatment of children and adolescents with autism spectrum disorders.

Neuropsychology externs learn to administer neuropsychological tests, including measures of intelligence, attention, executive function, language, visual processing, learning and memory, social cognition, fine motor abilities, and emotional adjustment. Externs are taught to interpret test data, formulate diagnoses and conceptualize each patient's unique pattern of neuropsychological strengths and weaknesses, assist with report writing, and participate in parent feedback conferences when possible. The externship is designed for students who are interested in developing advanced skills in child assessment, as well as those with specific interest in the specialty of pediatric neuropsychology. This service works in close consultation with CNMC physicians and several multidisciplinary teams.

Clinical Psychology CASD externs learn assessment including gold standard diagnostics, as well as provide individual and group psychotherapy and treatment team consultation.

Pediatric Neuropsychology / General

This track provides broad, general training in pediatric neuropsychology service to children and adolescents. The extern receives exposure to a wide of pediatric populations range with neurodevelopmental learning (e.g., ADHD, disabilities, genetic conditions, etc.) and medical/ neurological disorders (e.g., epilepsy, brain tumors, concussions and other injuries). Our patients are typically school-age through late adolescence, with opportunities to see preschool-aged patients and occasionally young adults. Clinical experiences provide opportunities to develop facility with: test battery selection and administration; process-driven behavioral observations; case formulation; report writing; and involvement in clinical interviews and feedbacks.







Pediatric Neuropsychology/ Concussion and Mild Traumatic Brain Injury

The externs in this track will receive general training in pediatric neuropsychology and also will achieve experience in working with children who have sustained mild traumatic brain injuries (TBI)/ concussion. Externs will be specially trained to provide evaluation & consultation through the Safe Concussion Outcome, Recovery and Education Program within the (SCORE) Division of Neuropsychology. The extern will also have the opportunity to work with a variety of medical professionals (e.g., emergency dept, sports medicine, neurology, athletic trainers) regarding evaluation and treatment of mild TBI/ concussion.



<u>Center for Autism Spectrum Disorders (CASD) –</u> <u>Clinical Psychology</u>

- <u>Autism Diagnostics</u>. Exposure to, and possible training in, autism diagnostic assessments including the Autism Diagnostic Interview-Revised and the Autism Diagnostic Observation Schedule-2.
- Outpatient psychotherapy with children and adolescents with autism spectrum disorders and their families. The extern's typical caseload is 3-4 weekly patients. Common referral issues include OCD symptoms, executive functioning problems, behavioral problems, anxiety, depression, and family difficulties. Treatment often uses CBT, PCIT, exposure therapy, executive function training, psychoeducation empowerment, and parent training techniques.
- <u>Group psychotherapy</u>. Co-facilitate social skills, executive functioning, or transition to adult life groups for higher functioning children with autism spectrum disorders.
- <u>Consultation regarding new diagnoses of autism</u> <u>spectrum disorders</u>. Rapid consultation, education, and counseling with families of children newly diagnosed with an autism spectrum disorder. This includes developing a comprehensive treatment plan, psychoeducation and family support.
- Weekly multidisciplinary team evaluations, case conferences and didactic seminars. This will include experiences with our clinical psychologists, child psychiatrists, speech and language pathologists, and neuropsychologists.
- <u>Autism Diagnostics.</u> Exposure to autism diagnostic assessments (ADI-R, ADOS-2)
- <u>Research</u>. Although the majority of the externship focuses on clinical activities, there are also many opportunities to participate in research.

Qualifications: A strong interest in autism spectrum disorders is required. Formal coursework in child development and assessment is expected. Assessment and therapy experience with children is preferred. Excellent communication skills and the ability to work as part of a team are also presumed.

<u>Center for Autism Spectrum Disorders (CASD) -</u> <u>Neuropsychology</u>

 <u>Neuropsychological Evaluation</u>. Training and experience with providing comprehensive neuropsychological and diagnostic evaluations for children on the autism spectrum, or suspected of being on the spectrum. Assessment experiences include a broad range of neuropsychological assessment tools as well as standard autism diagnostic measures. Report writing, providing feedback, and consultation with families are also experiences the extern will have.



Didactic and Professional Development Experiences

Externs will receive 1-2 hours of individual supervision weekly with their primary supervisor. Externs can attend any and all didactics within the Division of Neuropsychology, CASD, or within Children's National. We offer a weekly neuropsychology seminar that consists of talks by faculty and quest lecturers on topics including structural and functional anatomy, diseases/disorders, psychometrics, legal/ethical issues, case discussions, and journal clubs. CASD also offers a seminar series focused on topics and issues specific to autism spectrum disorders. Additional opportunities through the larger medical center include hospital Grand Rounds, Behavioral Medicine Grand Rounds, Neuroscience Seminar, Neuroradiology Rounds, Epilepsy team meeting, brain cutting, observing brain surgery, shadowing a neurologist, etc. Many of these meetings are available over video teleconference in the Rockville office.

Sample Neuropsychology Seminar Topics

Functional Neuroanatomy Review Pediatric Epilepsy Legislative Advocacy Executive Function Intervention Neurocognitive Issues in Brain Tumors and Leukemia Introduction to Forensic Neuropsychology

How to Apply

Qualifications: The general neuropsychology and Autism placements are advanced child assessment externships, and thus are most appropriate for students in their third year or beyond, have completed coursework in assessment, have had prior externship experience with testing, and direct clinical experience with children. The externship in the SCORE clinic is appropriate for doctoral students at all levels of training who may have less assessment training or experience, or have a particular interest in working with children adolescents with mild traumatic brain and injuries/concussions or sports-related injuries.

<u>Materials are due **February 13, 2015**</u>. The following application materials are required:

- □ Letter of interest (include program or faculty preferences if applicable in your letter)
- Curriculum Vitae
- Two letters of recommendation: These may be sent separately directly from the recommender. If you are mailing your application and wish to enclose letters of recommendation, please be sure they are in signed, sealed envelopes.
- □ Graduate transcripts (may be unofficial)

Please direct applications to:

Christopher Vaughan PsyD & Karin Walsh PsyD Email for application materials: <u>CVaughan@ChildrensNational.org</u> Children's National Medical Center Division of Pediatric Neuropsychology 15245 Shady Grove Rd, Suite 350 Rockville, MD 20850 phone: 301-765-5430 fax: 301-765-5497



Our Faculty



Laura Anthony, PhD

Clinical Psychologist; Associate Director, Center for Autism Spectrum Disorders (CASD)

Interests: Autism Spectrum Disorder (ASD) diagnosis, ASD intervention,

executive function, intervention research Contact: <u>LAnthony@ChildrensNational.org</u>



Kathleen Atmore, PsyD Developmental Neuropsychologist Interests: Developmental evaluations, ASD diagnosis Contact: KAtmore@ChildrensNational.org



Madison Berl, PhD Neuropsychologist; Research Director, Division of Neuropsychology Interests: Epilepsy, neuroimaging, plasticity of cognitive functions Contact: <u>MBerl@ChildrensNational.org</u>;



Angela Bollich, PhD Neuropsychologist ASD evaluation and treatment over the lifespan, executive function, language development and interventions Contact: ABollich@ChildrensNational.org



Gerard Gioia, PhD Neuropsychologist; Chief, Division of Neuropsychology; Director, SCORE Clinic Interests: Concussion/ mild TBI, executive function, psychometric development Contact: <u>GGioia@ChildrensNational.org</u>



Yael Granader, PhD Neuropsychologist Interests: Autism Spectrum Disorders, Epilepsy, Tuberous Sclerosis Complex Contact: ygranade@ChildrensNational.org



Kristina Hardy, PhD Neuropsychologist Interests: Pediatric oncology, Neurofibromatosis, ADHD, executive function intervention Contact: KKHardy@ChildrensNational.org



Anne Inge, PhD Clinical Psychologist Interests: Diagnostic, neurodevelopmental, and neurocognitive assessment of ASD Contact: <u>AInge@ChildrensNational.org</u>;



Laura Kenealy, PhD, ABPP-CN Neuropsychologist; Training Director, Division of Neuropsychology; Director, Executive Function Clinic Interests: ADHD, executive function, learning disorders, cognitive function in medical disorders Contact: LKenealy@ChildrensNational.org



Lauren Kenworthy, PhD Neuropsychologist; Director, CASD Interests: Non-social ASD phenotypes, genotypes, and treatment Contact: LKenwort@ChildrensNational.org;



Catherine McGill, PsyD Neuropsychologist Interests: SCORE/ Concussion, advocacy and community outreach, cognitive effects of medical disorders Contact: <u>CMcGill@ChildrensNational.org</u>



Julie Newman, PhD Neuropsychologist Interests: SCORE/concussion, executive function, childhood cancers, learning issues in medically complex children Contact:

JNewman@ChildrensNational.org



Maegan Sady, PhD Neuropsychologist Interests: SCORE/ concussion, traumatic brain injury, executive function, hematology/oncology Contact: MSady@ChildrensNational.org



Jacqueline Sanz, PhD, ABPP-CN Neuropsychologist; Assistant Training Director Interests: Congenital heart disease, sickle cell disease, genetic and metabolic syndromes

Contact: JSanz@ChildrensNational.org



John Strang, PsyD Neuropsychologist Interests: ASD evaluations, ASD intervention, executive function, intervention research Contact: JStrang@ChildrensNational.org



Christopher Vaughan, PsyD

Neuropsychologist; Externship Co-Director Interests: SCORE/concussion, neuroimaging, test/ measure development Contact: CVaughan@ChildrensNational.org;

301-765-5433



Karin Walsh, PsyD

Neuropsychologist, Externship Co-Director Interests: Hematology/Oncology (neurooncology), Neurofibromatosis Type 1, anxiety and cognition Contact: KWalsh@ChildrensNational.org;

202-476-3923

Selected Recent Faculty Publications

 Newman, J.B., Reesman, J.K., Vaughan, C.G., Gioia, G.A. (2013). Assessment of Processing Speed in Children with mTBI: A "First Look' at the Validity of Pediatric ImPACT. The Clinical Neuropsychologist, 27(5). 779-793.

- Gioia, G. A., Vaughan, C.G., & Sady, M.S. (2012). Developmental Considerations in Pediatric Concussion Evaluation and Management. In J. Apps & K. Walter (Eds.), Handbook of Pediatric Concussions. New York, NY: Springer Press.
- 3. Gioia, G. A., Vaughan, C.G. & Isquith, P.K. (2012). Independent Neuropsychological Evaluation of Children with Mild Traumatic Brain Injury. In E.M.S. Sherman & B. L. Brooks (Eds.), Pediatric forensic neuropsychology. New York, NY: Oxford University Press.
- Vaughan, C.G., Gerst, E.H., Sady, M., Newman, J.B., & Gioia, G.A. (2014). The relationship between testing environment and baseline performance in child and adolescent concussion assessment. American Journal of Sports Medicine, 42 (7), 1716-1723. DOI: 10.1177/0363546514531732
- Sady, M., Vaughan, C.G., & Gioia, G.A. (2014). Psychometric Characteristics of the Post-Concussion Symptom Inventory (PCSI) in Children and Adolescents. Archives of Clinical Neuropsychology, 29, 348–363.
- Sady, M.D., Vaughan, C.G., Gioia, G.A. (2011) School and the Concussed Youth: Recommendations for Concussion Education and Management. Physical Medicine Rehabilitation Clinics of North America 22 701-719.
- Isquith PK, Roth RM, Kenworthy L, Gioia G. (2014) Contribution of Rating Scales to Intervention for Executive Dysfunction. Applied Neuropsychology: Child 3:197-204. doi: 10.1080/21622965.2013.870014.
- Lawson, R., Papadakis, A.A., Higginson, C.I., Barnett, J.E., Wills, M.C., Strang, J. F., Wallace, G.L., & Kenworthy, L. (In Press) Specific Executive Function Impairments Predict Comorbid Psychopathology in Autism Spectrum and Attention-Deficit/Hyperactivity Disorders. Neuropsychology.
- Green A.E., Kenworthy L., Mosner M.G., Gallagher N.M., Fearon E.W., Balhana C.D., Yerys B.E. (2014) Abstract Analogical Reasoning in High-Functioning Children with Autism Spectrum Disorders. Autism Res. doi: 10.1002/aur.1411
- Granader, Y., Wallace, G.L., Hardy, K.K., Yerys, B.E., Lawson, R.A., Rosenthal, M., Wills, M.C., Dixon E., Pandhey, J., Penna, Schultz, R.T., Kenworthy, L. (2014) Characterizing the Factor Structure of Parent Reported Executive Function in Autism Spectrum Disorders: The Impact of Cognitive Inflexibility. Journal of Autism and

Developmental Disorders. DOI: 10.1007/s10803-014-2169-8.

- 11. Strang JF, Kenworthy L, Dominska A, Sokoloff J, Kenealy LE, Berl M, Walsh K, Menvielle E, Slesaransky-Poe G, Kim KE, Luong-Tran C, Meagher H, Wallace GL. (2014). Increased Gender Variance in Autism Spectrum Disorders and Attention Deficit Hyperactivity Disorder. Arch Sex Behav. Mar 12. PMID:24619651
- 12. Kenworthy, L.*, Anthony, L. G.*, Naiman, D.Q., Cannon, L., Wills, M.C., Werner, M.A., Alexander, K., Strang, J., Bal, E., Sokoloff, J.L., & Wallace, G.L. (2014) Randomized Controlled Effectiveness Trial of Executive Function Invention for Children on the Autism Spectrum. Journal of Child Psychology and Psychiatry 55 :374-83. doi: 10.1111/jcpp.12161 *Joint first authors
- 13. Kenworthy, L., Wallace G.L., Birn R., Millville S., Case, L. & Martin A. (2013) Aberrant neural mediation of verbal fluency in autism spectrum disorders. Brain and Cognition, 83, 218-226.
- Kenworthy, L., Yerys, B.E., Weinblatt, R., Abrams, D., & Wallace, G.L. (2013) Motor demands impact speed of information processing in ASD. Neuropsychology, 27, 529-536.
- Anthony L.G., Kenworthy L., Yerys B.E., Jankowski K.F., James J.D., Harms M.B., Martin A., and Wallace G.L. (2013). Intense interests in highfunctioning autism and neurotypical development. Development and Psychopathology., 25, 643-652.
- Rosenthal, M., Wallace, G.L., Lawson, R., Wills, M.C., Dixon, E. Yerys, B.E., Kenworthy, L. (In Press) Impairments in Real World Executive Function Increase from Childhood to Adolescence in Autism Spectrum Disorders. Neuropsychology.
- Weisberg J., Milleville S.C., Kenworthy L., Wallace G.L., Gotts S.J., Beauchamp M.S., Martin A. (2014) Social Perception in Autism Spectrum Disorders: Impaired Category Selectivity for Dynamic but not Static Images in Ventral Temporal Cortex. Cerebral Cortex, 24:37-48. doi: 10.1093/cercor/bhs276.
- Etemad Smithson, P., Kenworthy, L., Wills, M., Jarrett, M., Atmore, K., & Yerys, B.E. (2013) Measures of everyday cognitive flexibility and executive control correlates with adaptive behaviors in preschoolers with autism spectrum disorders. Journal of Autism and Developmental Disorders. doi: 10.1007/s10803-012-1747
- 19. Bal, E., Yerys B.E., Sokoloff J.L,, Celano M.J., **Kenworthy**, L. Geidd, J. & Wallace, G.L. (2013) Do Social Attribution Skills Improve with Age in Children with High Functioning Autism Spectrum

Disorders? Research in Autism Spectrum Disorders, 7:9-16.

- 20. Murphy, E. R., Foss-Feig, J., Kenworthy, L., Gaillard, W. D., Vaidya, C. J. (2012) "Atypical Functional Connectivity of the Amygdala in Childhood Autism Spectrum Disorders during Spontaneous Attention to Eye-Gaze," Autism Research and Treatment. doi:10.1155/2012/652408.
- 21. Yerys, B.E., Ruiz, E., **Strang**, J., Sokoloff, J., **Kenworthy**, L. & Vaidya, C.J. (2012) Modulation of attentional blink with emotional faces in typical development and in autism spectrum disorders. Journal of Child Psychology and Psychiatry. doi:10.1111/jcpp.12013
- Supekar K, Uddin LQ, Khouzam A, Phillips J, Gaillard WD, Kenworthy L, Yerys BE, Vaidya CJ, Menon V. (2013) Brain hyperconnectivity in children with autism and its links to social deficits. Cell Rep. 5:738-47. doi: 10.1016/j.celrep.2013.10.001.
- You X, Norr M, Murphy E, Kuschner ES, Bal E, Gaillard WD, Kenworthy L, Vaidya CJ. (2013) Atypical modulation of distant functional connectivity by cognitive state in children with Autism Spectrum Disorders. Front Hum Neurosci. 7:482. doi: 10.3389/fnhum.2013.00482. eCollection 2013.
- 24. Oliveras-Rentas, R. Kenworthy, L., Roberson, R.B., Martin, A., & Wallace, G.L. (2012) WISC-IV profile in high-functioning autism spectrum disorders: impaired processing speed is associated with increased autism communication symptoms and decreased adaptive communication abilities. Journal of Autism and Developmental Disorders, 42:655-64.
- 25. Kenworthy, L. Anthony, L. G.,, et al. (In Press) Unstuck and On Target Everywhere Brookes Publishing, Inc
- 26. **Kenworthy**, L, & **Anthony**, LG (2012). Understanding and Using Neurocognitive Assessment Results in Children with Neurodevelopmental Disabilities. In M L Batshaw, N Roizen, G Lotrecchiano(Eds). Children with Disabilities, 7th Edition. Baltimore: Brookes Publishing.
- 27. Yerys, B.E., **Kenworthy, L.,** Jankowski, K.F., **Strang, J.,** & Wallace, G.L. (2013). Separate components of emotional Go/No-Go performance relate to autism versus attention symptoms in children with autism. Neuropsychology, 27, 537-545.
- 28. **Kenworthy**, L, **Anthony**, LG & Yerys, BE (2012). Executive Functions in Autism Spectrum Disorders. In E Sparrow & S Hunter (Eds) Executive Function

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- 29. **Walsh**, K.S., Velez, J. I., Kardel, P. G., Imas, D. M., Muenke, M., Packer, R. J., et al. (2012). Autism Spectrum Disorder (ASD) Symptomatology in a Neurofibromatosis Type 1 (NF1) Population. *Developmental Medicine and Child Neurology*. PubMed PMID: 23163951
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- 34. Walsh, K.S. & Paltin, I. (in press) Neuropsychological Effects of Pediatric Brain Tumors and Associated Treatment. In Handbook of Childhood Cancer Survivorship: Evidence-Based Practice for Long-Term Care, Mucci, G. & Torno, L. (eds.). Springer.
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- 37. Raz, S., Newman, J.B., DeBastos, A.K., Batton, D. (2014). Postnatal growth and neuropsychological performance in preterm birth preschoolers. Neuropsychology. 28(2). 188-201. doi: 10.1037/neu0000038

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 Monitoring Developmental Risk and Promoting
 Success for Children with Congenital Heart Disease:
 Recommendations for Cardiac
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- 46. Croft, L, Baldeweg, T, Sepeta, LS, Zimmaro, LA, Berl, MM, & Gaillard, WD. (2014). Vulnerability of the ventral language network in children with focal epilepsy. Brain Aug;137(Pt 8):2245-57. doi: 10.1093/brain/awu154. Epub 2014 Jun 17. PMID:24941948
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students. Journal of Adolescent Health. [Epub ahead of print] PMID: 24485551.

- Avery, R.A., & Hardy, K.K. (2014). Vision-specific quality of life in children with optic pathway glioma. Journal of Neuro-oncology,116, 341-7. PMID: 24197987.
- 49. Willard, V.W., **Hardy**, K.K., Allen, T., & Bonner, M.J. (in press). Sluggish cognitive tempo in survivors of pediatric brain tumors. *Journal of Neuro-oncology*.
- 50. Noll, R.B., Patel, S. Embry, L., Hardy, K.K., Pelletier, W., Annett, R., Patenaude, A., Lown, A., & Barakat, L. (in press). Children's Oncology Group's 2013 Blueprint for Research: Behavioral Sciences. *Pediatric Blood & Cancer.*
- 51. Hardy, K.K., Willard, V.W., Allen, T., & Bonner, M.J. (in press). Computerized working memory training with pediatric cancer survivors. *PsychoOncology*.
- 52. Darcy, A.M., **Hardy**, K.K., Crosby, R., Lock, J.L., & Peebles, R. (in press). Factor Structure of the Eating order Examination Questionnaire (EDE-Q) in college-aged men and women at different levels of sports participation. *Body Image*.
- 53. Darcy, A.M., **Hardy**, K.K., Lock, J.L., Hill, K. B., & Peebles, R. (in press). The Eating Disorder Examination Questionnaire (EDE-Q) among men and women at different levels of athleticism. *Eating Behaviors*.
- 54. Hardy, K.K., Willard, V.W., Wigdor, A.B.*, Allen, T.M.*, & Bonner, M.J. (in press). Symptoms of inattention in survivors of pediatric cancer: Utility of the ADHD model. Manuscript submitted to Neuro-Oncology Practice.
- 55. Peebles, R., Wilson, J.L., Litt, I.F., **Hardy**, K.K., Lock, J.D., Mann, J.R., & Borzekowski, D.L.G. (in press) Disordered eating in a digital age: eating behaviors, health, and quality of life in users of websites with pro-eating disorder content. *Journal* of Medical Internet Research.