The value of the whole:

Psychosocial considerations for pediatric neuroimmune disease



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Disclosures

No disclosures to report





Objectives

- Identify mental health needs in the neuroimmune population
- 2. Demonstrate the high needs in a local clinic population
- Describe three important steps caregivers and treatment providers can do to meet these needs



Audience participation please!

Enter words that you connect to neuroimmune disease

Use the QR code

OR

Text 61850 and your word to 22333



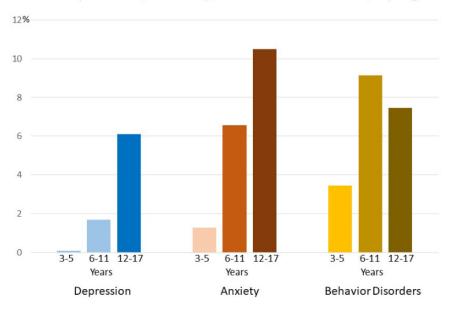
Note: Please keep words child friendly!





Pediatric Mental Health Facts





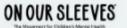
Center for Disease Control, 2022



1 in 5 children

has a significantly impairing mental disorder; yet less than half get the treatment they need*

Nameral formuse of Messal Health







Background

- Impact of a demyelinating disorder is widespread
 - Anxiety, ADHD, mood symptoms are most common diagnoses
 - High overlap of cognitive and psychiatric disorders
 - Fatigue (up to 75% in MS studies)
 - Lower quality of life ratings especially for relapsing disease

Duncan et al., Dev Med Child Neurol, 2020





NCH Neuroimmune (NI) Clinic



- Started in 2019
- Patient population: rare autoimmune or inflammatory disorders of the central nervous system (CNS)







NCH Neuroimmune (NI) Clinic

- Weekly multidisciplinary clinic
- Allows for focused evaluations within one setting
- Annual neurocognitive screening
- Annual psychosocial screening







NI Clinic Psychosocial Screening

- RedCap questionnaire
- Completed annually
- Families and patients can complete before clinic or during clinic with iPad
- Feedback shared with family during clinic appointment



NI Clinic Psychosocial Screening

Measure	Informant	Domain	Age Range (years)
PROMIS Fatigue	Child	Fatigue	8-17+
SCARED	Child	Anxiety	8-18
CES-DC	Child	Depression	6-17
PHQ-9	Teen/Young Adult	Depression	12+
PROMIS Fatigue	Parent	Fatigue	5-17+
Vanderbilt	Parent	Attention, behaviors	6-12
LEAF	Parent	Learning, executive and attention functioning	6-18+



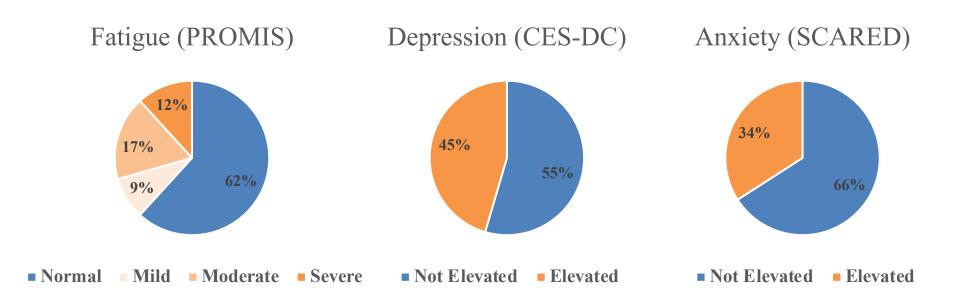


- Questionnaires completed 2020-2022
- 54 adolescents + family caregiver
- 57% female
- 6-19 years (average age = 13.20 years)
- Diagnoses: ADEM, Optic Neuritis, Multiple Sclerosis,
 Transverse Myelitis, encephalitis (other)





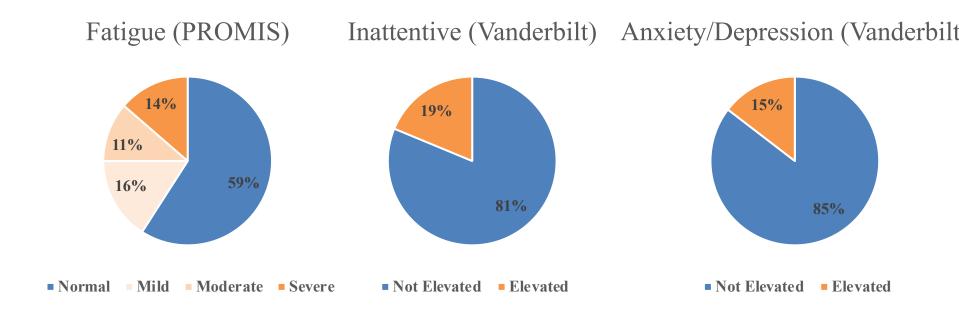
Overall Child/Adolescent ratings (all diagnoses)

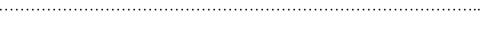






Overall Parent ratings (all diagnoses)

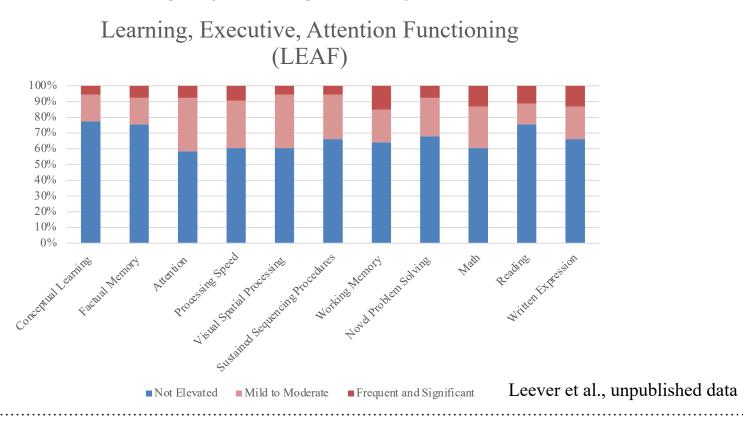








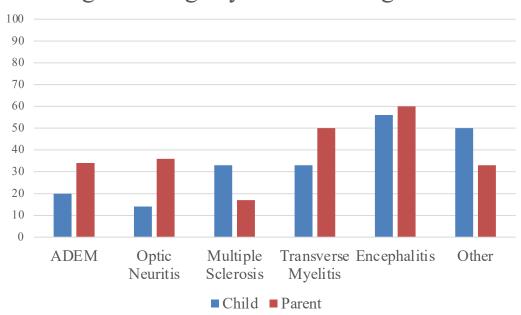
Overall Parent ratings (all diagnoses)







Fatigue Ratings by Medical Diagnosis

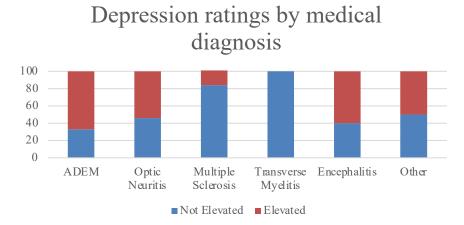


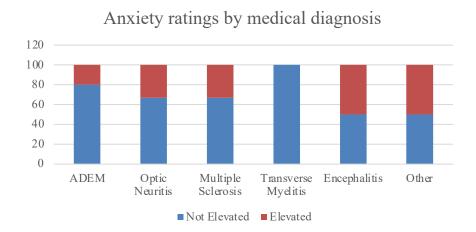
- Expected high levels seen with Transverse Myelitis, ADEM
- High levels also in Optic Neuritis and encephalitis





- Very high self-reported rates of depression across ADEM, Optic Neuritis, encephalitis (> 50%)
- High rates of anxiety in Optic Neuritis, MS, and encephalitis
- Consider the impact of chronic medical diagnosis on mental health

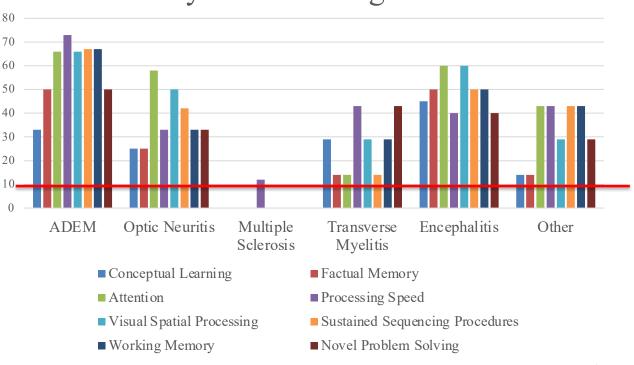






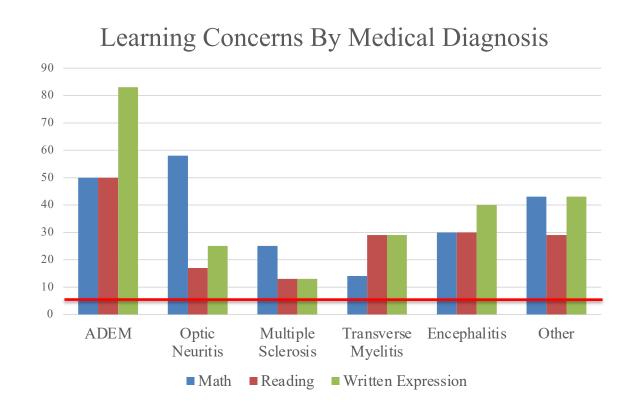


Executive, and Attention Functioning by Medical Diagnosis









- High rates of learning concerns across diagnoses
- ~2% learning disability diagnoses in the general population





Of the 54 individuals screened:

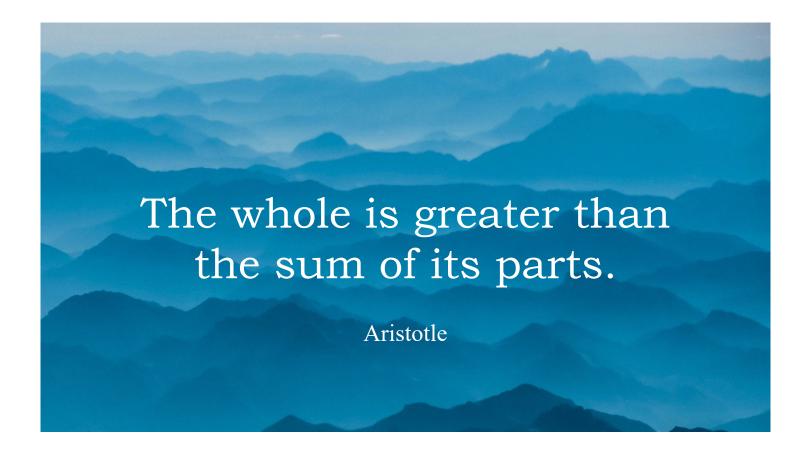
- 39% have been linked with psychiatry
- 69% have been connected with Psychology/Behavioral Health
- 52% have completed a neuropsychological evaluation



Key Takeaways

- Anxiety and depression co-exist with medical diagnoses
- High rate of learning concerns
- High utilization rates for psychology/psychiatry services
- Important to consider needs beyond medical management
- Need to consider mental health needs in this population









How can you support

- Regular ongoing mental health screening is recommended
- 2. Know the early signs of mental health concerns
- Recognize when someone may be having difficulty with learning
- 4. Seek out behavioral health or educational supports when you see signs of struggle



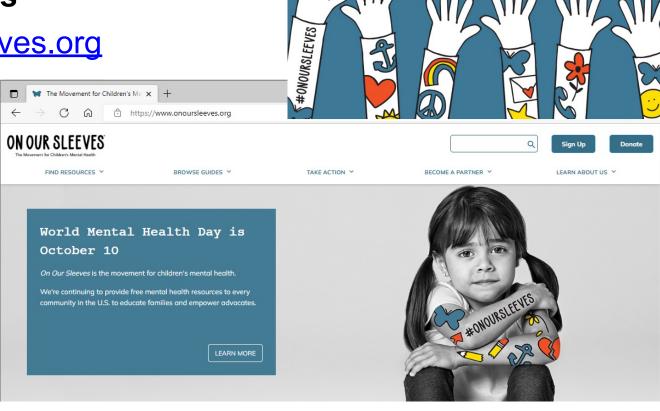
Family and Clinician Resources

On Our Sleeves

www.onoursleeves.org











ON OUR SLEEVES

Special thanks

Neuroimmune Dream Team

Psychosocial team extraordinaire!
Alana Goldstein-Leever, PsyD
and Karah Harvey, M.D.

Our patients and families







NCH Neuroimmune Team

















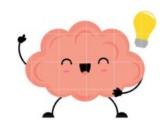








Questions?



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