

Back to School: An Educational Collaboration and Tool for School Nurses and their Students with Headache, Migraines, and Concussion

Lori Lazdowsky, RN, BSN, Alessandra Caruso, BA, Elyse Mahoney, BS, Jason Haberman, Jonathan Rabner, BA, Ashley McCarthy, BA, Victoria Karian, MSN, CPNP, Karen Kaczynski, PhD, Rupa Gambhir, PsyD, Laura Simons, PhD, and Alyssa LeBel, MD

Pediatric Headache Program, Department of Anesthesia, Boston Children's Hospital, Harvard Medical School TEACHING HOSPITAL

OBJECTIVE

To develop an effective teaching tool to facilitate communication among medical providers, students and families, and school administration on how to best meet the needs of students with headache complaints, specifically chronic pediatric headache and migraine.

BACKGROUND LITERATURE

- In recent decades, the number of children with chronic illnesses transitioning back to school has increased. (1)
- Pediatric migraine is one of the five most prevalent childhood disorders in the US, affecting up to 10% of children and 28% of adolescents. (2)
- Children with chronic headache experience significant impairment to daily functioning, including difficulty with school performance and higher rates of school absenteeism than kids with other chronic illnesses. (3)
- Minimizing school drop-out rates for children with pain conditions such as chronic pediatric headache has evolved beyond individual patient care towards a global public health issue. (4)

METHODS

Participants:

- 31 school nurses from 9 different counties in Massachusetts and New Hampshire
- 109 patients seen at the Pediatric Headache Program at Boston Children's Hospital

Boston Children's Hospital	Pediatric Headache Program
Until every child is well*	

School Demographics				
Public School	96.2%			
Middle/High School	73.1%			
500+ Total Students	80.8%			
20+ Nurse Visits per day	96.2%			

Ethnicities Represented

Non-Hispanic White

Students who visited the

- Hispanic or Latin American
- Asian
- Black or African American

nurse for headache/migraine

Stud	ent	Re	norts	Pro-	Too
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57.8%

marse for medadener in	1151 41110
Students who visited nurse to receive head migraine medication	
Students sent back to after visiting the nurs headache	
Students sent home a visiting the nurse for headache	fter 42.3%
Students & parents we nurse could at least somewhat benefit from educational headache	60.7% an

RESULTS

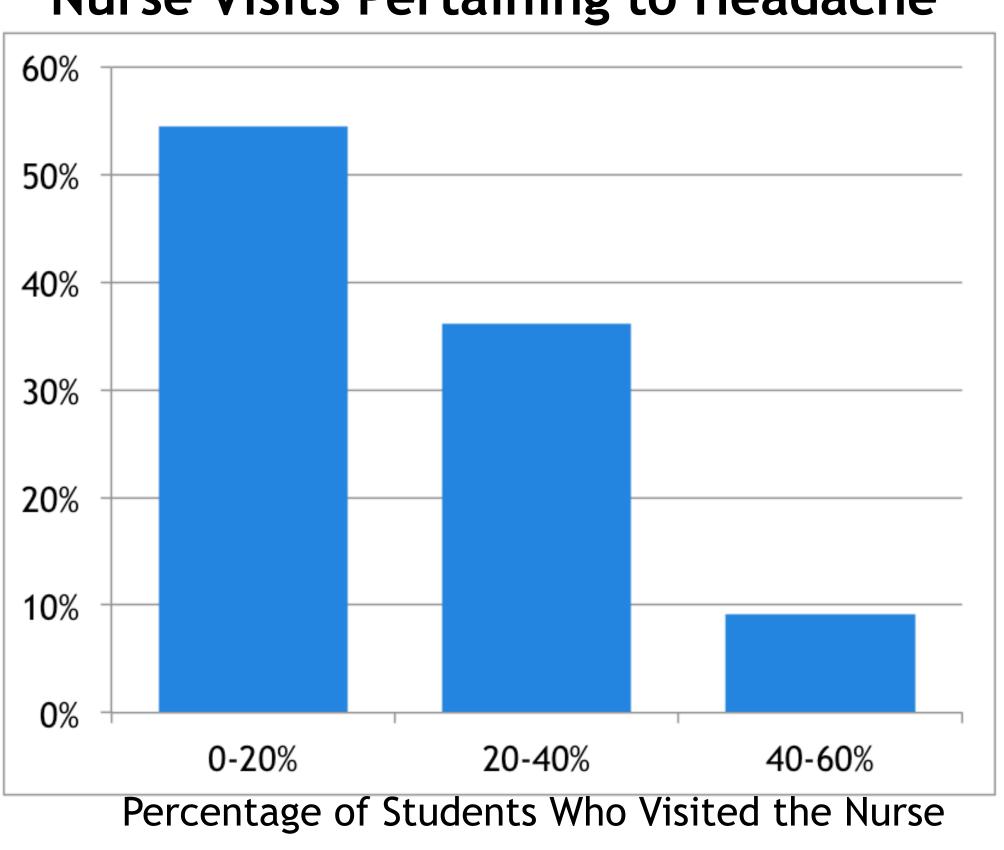
Mean Ratings (out of 5)

- Overall: 4.46
- Introduction: 4.10
- Headache as Chronic Illness: 4.40
- Education on Lifestyle Factors: 4.48
- Checklists for Scenarios: 4.29
- Medication Overview Charts: 4.23
- When to Contact a PCP, Neurologist, or a Headache Specialist: 4.33
- Additional Resources: 4.05

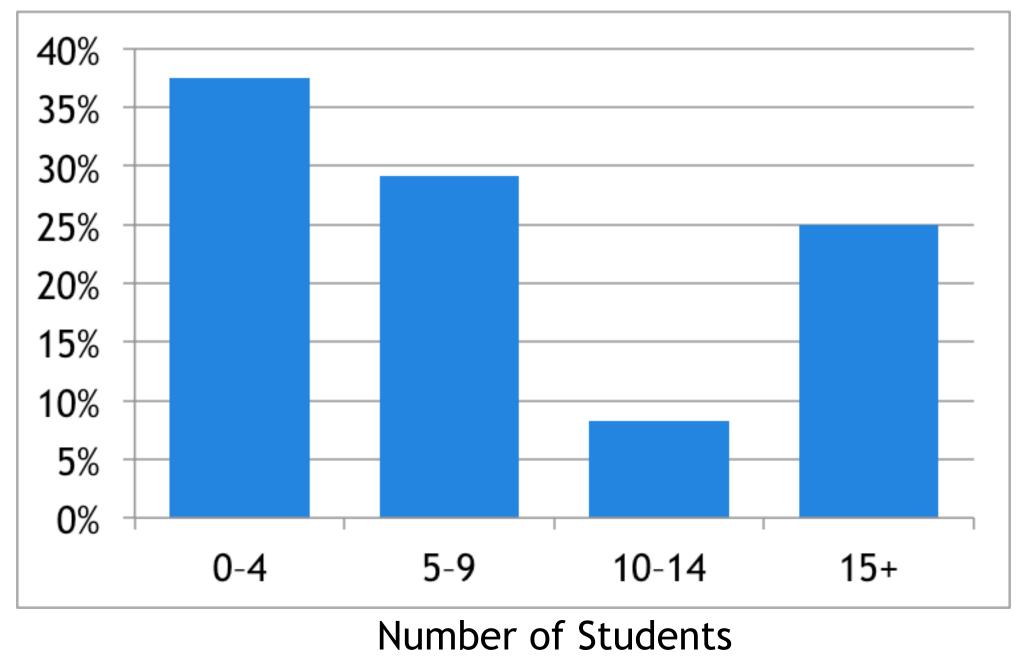
Most Popular Subsections

- Post-concussion headaches/syndrome (from Headaches as Chronic Illness)
- Sleep (from Education on Lifestyle Factors)
- Hydration (from Education on Lifestyle Factors)
- Chronic headache (from Checklists for Scenarios)
- Rescue medications (from Medication Overview Charts)
- Basic Treatment Strategies (from When to Contact...)
- Keeping a Headache Diary (from When to Contact...)

Nurse Visits Pertaining to Headache*



Back to School Guide Consults*



*in the last two months

CONCLUSION

- Feedback from patients and school nurses confirms need to further educate school nurses on specific chronic pain conditions, including headache/migraine
- Overall positive feedback of Back to School guide (as rated by school nurses) emphasizes importance of providing concise, yet thorough reference tools to parties involved in a child's ongoing care
- Strong liaisons among medical providers, students, and school administrators are crucial to a child's successful recovery

REFERENCES

- 1. Kliebenstein, M. & Broome, M. (2000). School reentry for the child with chronic illness: Parent and school personnel perceptions. *Pediatric Nursing*, *26*(6), 579-584.
- 2. Split, W. & Neuman W. (1999). Epidemiology of migraine among students from randomly selected secondary schools in Lodz. Headache, 39 (7), 494-501.
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- 4. Freudenberg, N. & Ruglis, J. (2007). Reframing school dropout as a public health issue. Preventing Chronic Disease: Public Health Research, Practice, and Policy, 4(4), 1-11.

Acknowledgements

Thank you to our wonderful patients and local school nurses for your participation and enthusiasm!



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