What are PANDAS, PANS?

- Pediatric Autoimmune Neuropsychiatric Disorders Associated with Strep (PANDAS) and Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS) are neuropsychiatric syndromes triggered by a faulty immune system response. Students may experience symptoms after a “strong stimulant” to the immune system (NIMH, 2012) such as strep infection, flu, or even the common cold. In a student with PANDAS or PANS, the immune system is thought to mistakenly react and cause brain inflammation in the basal ganglia region (NIMH, n.d.; Murphy, Girardi, & Parker-Athill, 2014).

- This reaction may cause neurological, psychological, and cognitive symptoms as a result of neurological inflammation (Chang et al, 2015).

- PANDAS and PANS may be treated with anti-inflammatory medications (such as ibuprofen), antibiotics to treat or prevent infection, and immune-modulating therapies (such as steroids, intravenous immunoglobulin (IVIG), and plasmapheresis (PANDAS Network, 2014). Self-calming strategies, cognitive behavioral therapies, and additional medications may also be important components of a student’s treatment plan.

- More than other conditions, PANDAS, PANS and related conditions can produce sudden, uneven and unusual symptoms.

- PANDAS and PANS may co-occur with other autoimmune disorders, immune deficiency, or other neurological or psychiatric disorders. This can make treatment and management more complex.
PANDAS, PANS AND RELATED DISORDERS: SUPPORT IN SCHOOL

BUILDING YOUR TEAM

KEY CONSIDERATIONS FOR SUPPORT:
Collaborate • Communicate • Assess Impact
Consider Accommodations & Complementary Services

Build a Supportive & Collaborative Team
that includes parents, teachers, special educators/specialists,
the school nurse, school psychologist, administration and other
relevant expertise.

Communicate Frequently & Share Updates with the Team
evenly during winter months when flares are common. Discuss
current treatment protocols and needs for accommodations and/or
modifications.

Assess Impact of Symptoms on School Participation
Consider how symptoms may cause deficits in performance
particularly in the areas of: Attendance (due to lack of sleep, fatigue);
Cognitive issues affecting behavior, academics—including reading,
writing and math; Sensory overwhelm (presenting as
challenging behavior in overstimulating situations); Fine motor
skills (handwriting and task completion); Perceptual and Physical
issues (tics and other movements) that affect fine/gross motor
skills; Urinary frequency; Ability to eat normally; Social issues
with peers and more.

Consider Accommodations and Modifications
Consider attendance flexibility (shorter days during an uptick in
symptoms, Skype classroom attendance during treatments, etc),
alternative activities and placements, breaks in the day, testing
modifications as needed.

Consider Complementary & Ancillary Services
Services may include Occupational therapy, Physical therapy, and
Executive Function & Social skills support. If this is a new condition
for your district, it can be helpful to talk with public or nonprofit
agencies to see what parameters of services are typically available for
students with related conditions such as traumatic brain injury (TBI),
Tourette syndrome, and encephalitis or encephalitic conditions, etc.

PANDAS/PANS MAY IMPACT A STUDENT’S ABILITY TO:
- Attend and travel to all school related activities
- Sustain focused attention and executive functioning
- Adapt to transitions and stresses
- Understand and remember information
- Communicate effectively, both orally and in writing
- Behave in age-appropriate ways
- Maintain prior level of physical and mental stamina

Some of the above excerpts drawn from "The Critical Importance of School Nurses in the Support of Students with PANS" by J. Candelaria Greene (2016). Distributed with Dr. Candelaria Greene’s permission by the PANDAS Network Working Group on Educational Access.