

- ▶ **PANDAS/PANS affects as many as 1 in 200 children in the U.S. alone.** However, the true lifetime prevalence of PANDAS/PANS is not known.

The statistical relevance is equal to Pediatric Cancer<sup>1</sup>, Pediatric Diabetes I and II<sup>2</sup>, and ALS<sup>3</sup>. The healthy outcome of a child's life can be seriously affected, but research and treatment for PANDAS/PANS is scarce.

#### How do we determine the estimated lifetime prevalence of PANDAS/PANS for children 18 & under?

- Approximately 500,000 children are diagnosed with OCD in U.S.<sup>4</sup>
- Approximately 138,000 children are diagnosed with Tourette Syndrome in the U.S.<sup>5</sup>
- 1.5 million+ children were diagnosed with serious anxiety/phobia/OCD/bipolar in a given year (1994-2011)<sup>6</sup>
- "Dr. Swedo estimates that (PANDAS) kids may make up as much as 25 percent of children diagnosed with OCD and tic disorders, such as Tourette syndrome."<sup>7</sup>

- ▶ **PANDAS/PANS POPULATION ANALYSIS**

Based on 700 family self-reports

#### AGE OF ONSET

- 1 to 3 years 11%
- 4 to 9 years 69%
- 10 to 13 years 19%
- 14+ years 1%

#### PRIMARY SYMPTOMS

- OCD 37%
- TICS 14%
- BOTH 49%

#### INFECTIONS REPORTED

- Strep 81%
- Other 19%  
(Mycoplasma, Lyme, etc.)

- ▶ **FAMILY MEDICAL HISTORY: 1<sup>ST</sup> OR 2<sup>ND</sup> GENERATION**

Based on 100 family self-reports

#### 70% of families reported BOTH

- Autoimmune Illness
- Strep Related Severity Illness

- ▶ **PANDAS/PANS POPULATION OVERVIEW**

- Young age at onset: 6.5+/- 2 years for TICS and 7.4 +/- 2 years for OCD<sup>8</sup>
- The ratio for boy to girls is 2.6:1 ; below age 8 years, the ratio of boys to girls is 4.7:1<sup>8</sup>

#### CITATIONS

<sup>1</sup>KantarHealth, CancerMPact Patient metrics U.S., accessed June 28, 2012

<sup>2</sup>National Diabetes Information Clearinghouse (information as of 2010); <http://1.usa.gov/LfNKrk>

<sup>3</sup>ALS Association (information as of 2011); <http://bit.ly/nRR94U>

<sup>4</sup>IOCDF.org; <http://bit.ly/rimFAB>

<sup>5</sup>CDC.gov; <http://1.usa.gov/MoghKH>

<sup>6</sup>CDC & Prevention. "Mental health surveillance among children: United States 2005–2011". MMWR 2013;62(Suppl; May 16, 2013):1-35.

<sup>7</sup>Scientific American: From Throat to Mind: Strep Today, Anxiety Later? (2010); <http://bit.ly/5ro0mv>

<sup>8</sup>Swedo et al (1998) PANDAS: Clinical Description of the First 50 Cases; <http://bit.ly/1qCASeF>