

## Welcome to Plexus Nexus!

Plexus Nexus is an international group of brachial plexus experts, including clinicians, scientists, engineers, and clinical researchers. Plexus Nexus met for the first time on October 26-27, 2017 in Cincinnati, OH, USA to set a collaborative agenda to improve care for brachial plexus birth injuries. The inaugural meeting set and met two goals: 1) to identify and prioritize work that needs to be done to substantially improve care for patients with brachial plexus birth injuries, and 2) to build collaborative teams to complete this work without a focus on individual credit. **We are not interested in incremental changes, but rather the big ideas that will truly solve this problem.** Together, we will advance the care for this condition through teamwork, curiosity, and the dream that one day all children will be able to grow up without being limited by the consequences of a brachial plexus birth injury.

**Plexus Nexus Vision: Until every child grows up without BPBI.**

**Plexus Nexus Mission: To collaboratively improve the lives of people with BPBI through prevention, treatment, education, research, and advocacy.**

On September 7<sup>th</sup> and 8<sup>th</sup>, 2019, Plexus Nexus will meet again in Las Vegas, NV, USA. The goals of this meeting are again two-fold: 1) to refine the short and long-term goals we must accomplish to dramatically improve care, and 2) to expand the teams of experts driving the work toward these goals in order to accelerate progress.

### Short Term Goals for 2019 Meeting

1. Develop an international, prospective BPBI registry using standardized provider- and patient-reported measures to determine the impact of BPBI and its treatments on diverse populations.
2. Develop a non-proprietary online expert network providing educational and referral resources for patients, families, and providers.
3. Develop Clinical Practice Guidelines for the evaluation and care of children with BPBI.

### Long Term Goals Described at 2017 Meeting

1. Develop a robust multicenter research mechanism for answering clinical and scientific questions.
2. Standardize algorithms for caring for children with BPBI.
3. Develop new outcome measures that better capture objective function and patient-perceived outcome (e.g. body image, pain, function).
4. Identify modifiable risk factors to aid in prevention of the injury.
5. Improve prognostic value of imaging to determine need for nerve reconstruction earlier and more precisely.
6. Improve nerve regeneration capacity.
7. Medically prevent muscle contractures following BPBI in order to allow reinnervation of normally developed muscle.
8. Understand the impact of BPBI on the developing brain.
9. Understand the biological and mechanical impact of BPBI on bone growth and development.

## Plexus Nexus Program 2020

TBD, October, 2020

8:00 PM – 8:05 AM	Welcome and Introductions	Claire Manske
8:05 PM – 8:15 AM	2019 Meeting Recap and 2020 Goals	Dan Zlotolow
8:15 PM – 8:20 AM	Update on GUPI	Andie Bauer
8:05 PM – 8:15 AM	Adult BPBI	Jenny Dorich/Jordyn
8:15 PM – 8:20 AM	Update on Website	Dan Zlotolow
8:20 PM – 8:45 AM	Discussion / Questions	All
8:45 PM – 8:50 AM	Update on Motion Analysis	Steph Russo
8:50 PM – 9:00 AM	Deliverables for the Day	Roger Cornwall
9:00 AM – 9:15 AM	**BREAK**	All