



ELGA Care Team: An Update



Extremely Low Gestational Age: Born Less than 26 Weeks

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Aim

1. Monitor outcomes, like severe IVH, after implementing a dedicated ELGA Care Team that provides strict adherence to our local ELGA bundle of recommendations
2. Monitor outcomes, like incidence of hypernatremia and hyperglycemia, after updating the ELGA bundle in May 2024

Importance

- LHSC cares for approximately 44 ELGA infants per year
- ELGA infants are at the highest risk for severe morbidity and mortality. Only 14.5% of ELGA infants survive without any major morbidity
- By focusing on the outcomes, we can hope to reduce mortality rates, minimize long-term disabilities, enhance quality of life, and reduce healthcare costs

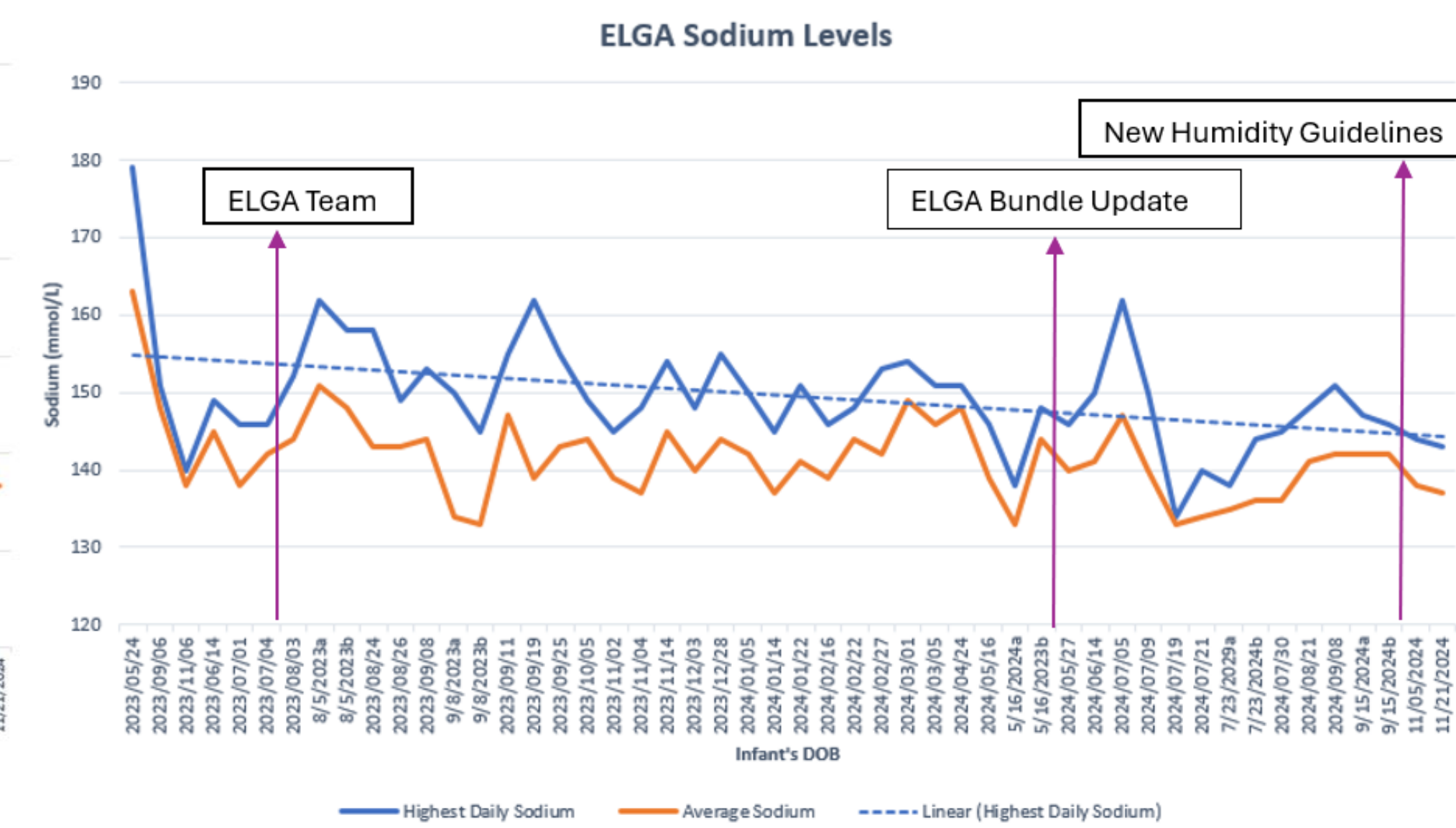
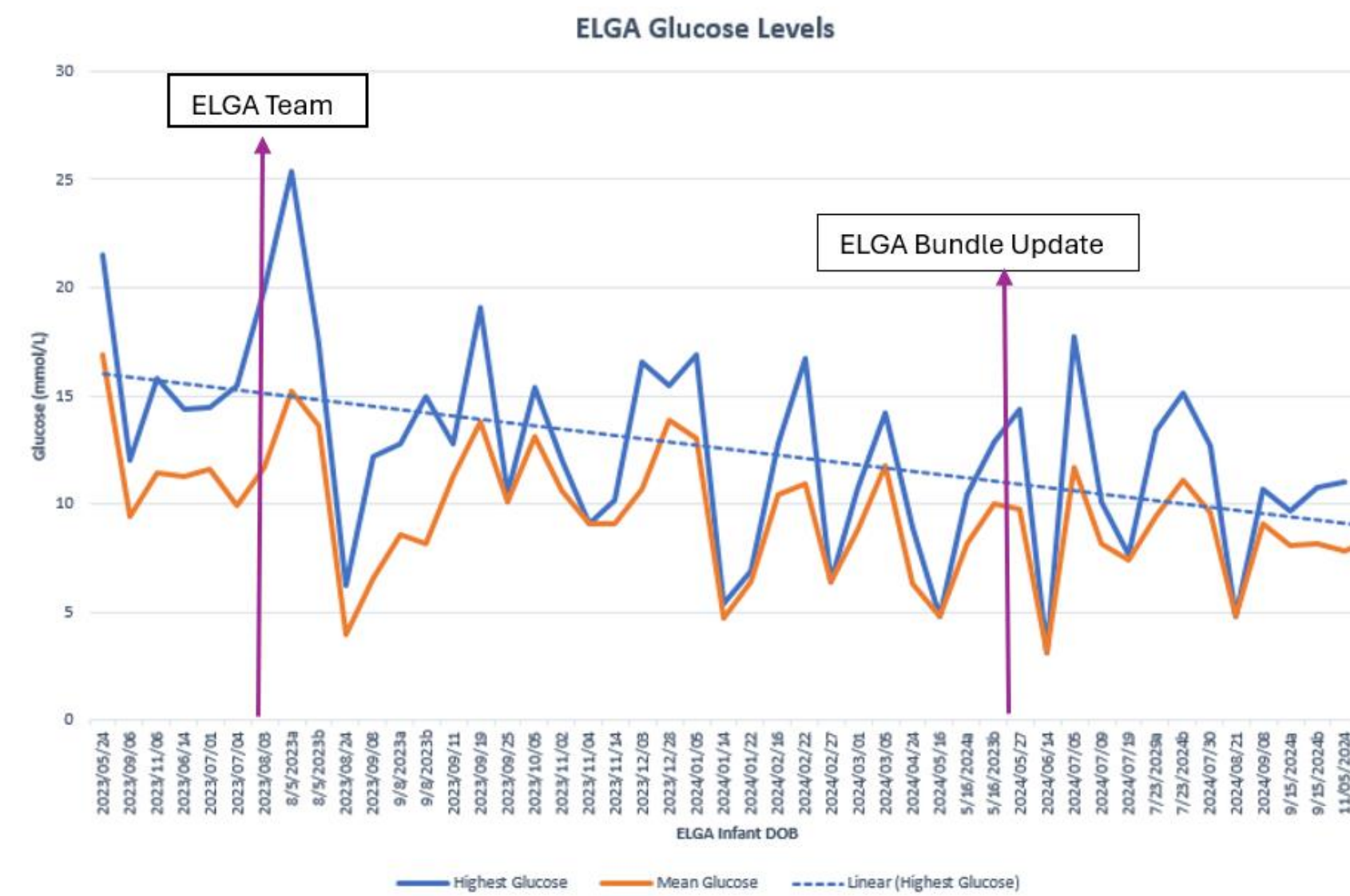
ELGA Care Team

- RN Qualifications include:
 - Minimum 5 years Level III full time experience
 - A Dedicated member of the Admissions Team
 - Committed to education and quality improvement
- Orientation: one 7.5 hour Orientation Day for qualifying RNs and all NICU RRTs
- So far, we have trained 33 RNs, 8 RRTs, and 5 Transport Team members
- An ELGA infant will be assigned an ELGA RN for the first 7 days of life or until 26 weeks corrected gestational age, whichever duration is longer

What is Next?

- Continue to audit both desired clinical outcomes and process measures. Provide timely feedback to the team and continue PDSA cycles
- Present ELGA cases for review during EPIQ meetings
- Collaborate with Diagnostic Imaging team to standardize ELGA head ultrasound procedures
- Continue to train new members

Effects on Glucose and Sodium



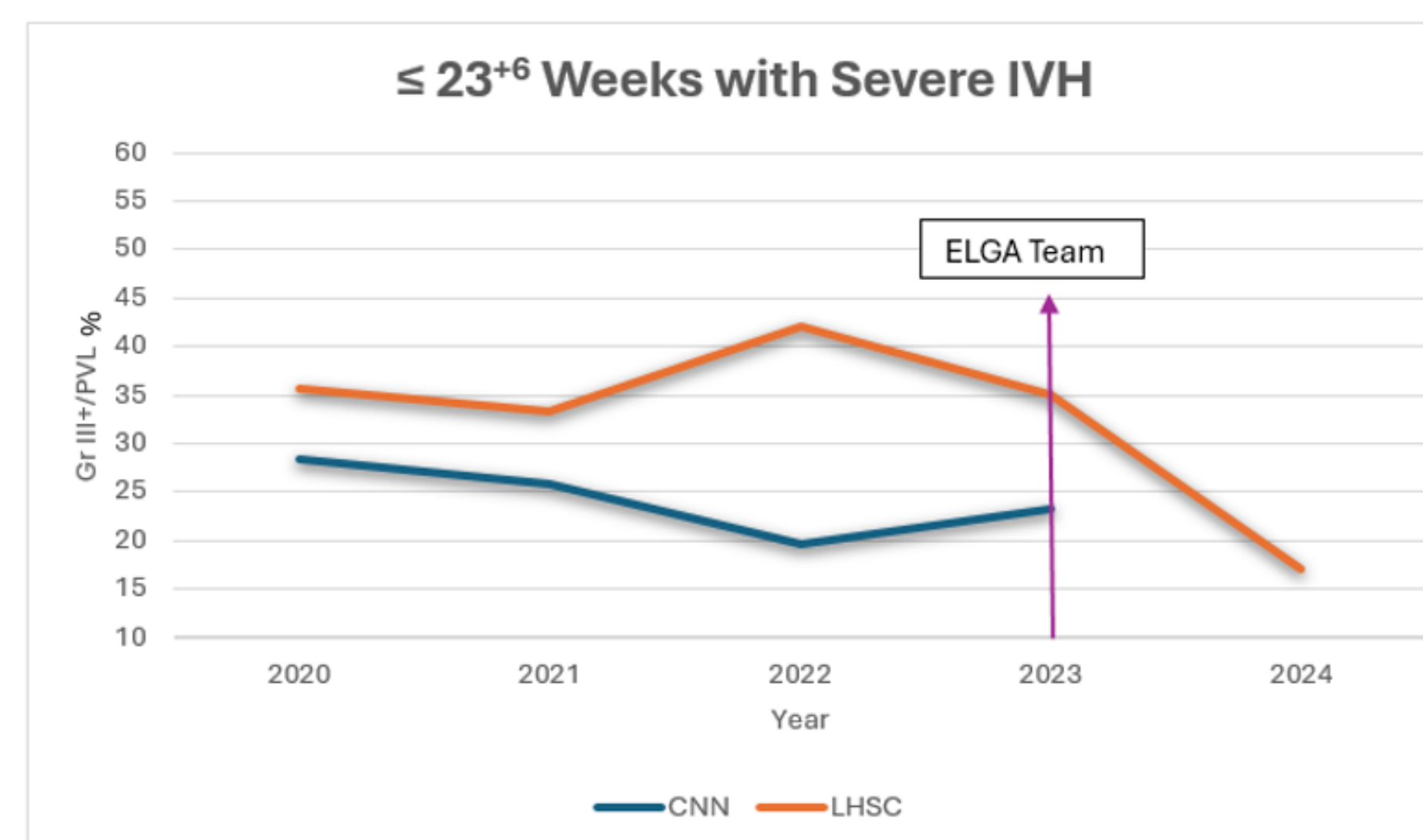
*ELGA Bundle Update:

Gestational Age	Starting TFI	Starting TPN
22 ⁺⁰ -23 ⁺⁶ weeks	120 ml/kg/day	5% Dextrose/ 3% AA
24 ⁺⁰ -25 ⁺⁶ weeks	100 ml/kg/day	7.5% Dextrose/ 4% AA

*New Humidity Guideline:

Gestational Age	Day 0-7	Day 8	Day 10	Day 14
22 ⁺⁰ -23 ⁺⁶ weeks	95%	Gradually reduce to 80% over 12 hours	Gradually reduce to 50% over 12 hours	Consider discontinuation
24 ⁺⁰ -25 ⁺⁶ weeks	90%	Gradually reduce to 70% over 12 hours	Gradually reduce to 50% over 12 hours	Consider discontinuation

Effects on Severe IVH for those ≤23⁺⁶ weeks



*CNN data used for 2020-2023 data; local LHSC data used for 2024