Clinical Issue

- In early 2018, Children’s Hospital Los Angeles (CHLA) was granted surgical privileges to be a designated Vision Center for treating childhood blindness via gene therapy.
- This new procedure has the potential to improve multiple patient lives by restoring vision in patients with biallelic RPE65 mutation-associated retinal dystrophy.
- Administration of Luxturna (Sparks Therapeutics - gene therapy) under a time sensitive strict protocol.
- First site to perform this FDA approved gene therapy.

Implementation and Planning

- Initial Meeting with Stakeholders
- Operational Walk Through
- Educational Pathway
- Procedure Performed
- Reassessment of Perioperative Needs
- Education Provided to Staff
- Celebration of Success Grand Round

Nursing Considerations

- Pre-operative Phase
  - Patient and Family Education
  - Individualized Communication
  - Coordination with Pharmacy
  - Baseline Assessment
- Intra-operative Phase
  - Appropriate Supplies and Equipment
  - Confirmation of Defrosted Drug
  - Individualized Communication
  - Time Management of Drug Administration
- Post-operative Phase
  - Individualized Communication
  - Appropriate Post-op Positioning
  - Home Care Instructions

Time is of the Essence

0530
- Pre-operative Check-in

0615
- Pre-operative Evaluation
- Pharmacy Notified that patient is cleared for surgery
- Luxturna defrosting is initiated

0630
- Patient in OR
- Delivery of Luxturna into the Operating Room

0730
- Administration of Luxturna

Description of the Team

The Vision Center – Ophthalmology Surgery Department
Pharmacy Department
Ophthalmology Coordinator
Pre-operative Services
Intra-operative Services
Post-operative Services
Sterile Processing Department
Marketing & Communications Team

Acknowledgments

A special thanks goes to surgery service line director, Hazel Gould, and peri-operative managers, Nancy Bridges, Allison Fell, and Leticia Boutros, for supporting interdisciplinary collaboration of this project. Thank you to the ophthalmology team for coordinating initial planning meetings. Finally, thank you to Sandy Hall for your professional guidance in the creation of this professional poster.

References
