

## **Advocate Lutheran General Hospital Dose Management Quality Improvement Project**

At Advocate Lutheran General Hospital, the Dose Management Quality Improvement Project (QIP) includes technologists, managers, a physician champion, a physicist, research consultants, and industry experts.

The QIP is divided into multiple chronological phases beginning with dose assessment and protocol optimization on the two busiest in-patient CT units (70 percent of total exams), staff education, and image quality. Primary objectives include:

- Improve skills/knowledge of CT workforce using standardized assessment tool
- Reduce average delivered dose (CTDIvol) of the five most common CT protocols
- Monitor CT image quality to ensure diagnostic interpretable value
- Submit data to the DIR
- Perform regular internal auditing
- Track repeat CT exams
- Create an education platform for physicians/associates
- Increase awareness

This will be followed by dedicated pediatric radiation dose reduction strategy review and awareness outreach to patients, referring physicians, and the community.