Particle therapy systems represent a significant investment and opportunity. Elekta Particle Therapy solutions can help you maximize both. From innovative 3D treatment planning capabilities, to conventional delivery systems and expert consulting services, Elekta helps you optimize operations while delivering leading-edge patient care.

XiO® Improves Planning Efficiency
XiO provides you with a comprehensive 3D Intensity Modulated Radiotherapy treatment planning platform. It includes automated planning tools for reducing planning time, robust dose calculation algorithms for highly precise plans, intuitive ease of use and planning functionality that addresses a wide range of clinical techniques and needs. XiO integrated planning capabilities support the range of particle treatment modalities - electron, photon and proton. Within proton, you can use the following:

- Broad Beam supports uniform scanning, wobbled beams and scattered beams
- Spread-out Bragg peak (SOBP) using rotating wheels or ripple filters, apertures and compensation filters
- Spot Scanning with Intensity Modulated Proton Therapy (IMPT*): Nuclear interactions are included when calculating overall scatter, lateral heterogeneities of the patient volume are addressed via decomposition of spots into pencil beams. XiO supports single (SFUD) and multiple field optimization and user definable spot spacing parameters.

*Availability pending regulatory clearance in Canada, China and South Korea.
Case treated with a passive proton beam.