

AlignRT Benefits for Proton Therapy: Our Experience

Tracy Reece BSRT(T)

Radiation Therapy Manager
Oklahoma Proton Center
Oklahoma City, OK 73025
W 405-773-6751



AlignRT Benefits for Proton Therapy, Our Experience

- Outline:
- Introduction to OPC
- Treatment Rooms / Equipment Available
- Treatment Room Challenges
- alignRT install / Training
- Billing & documentation



Center Overview

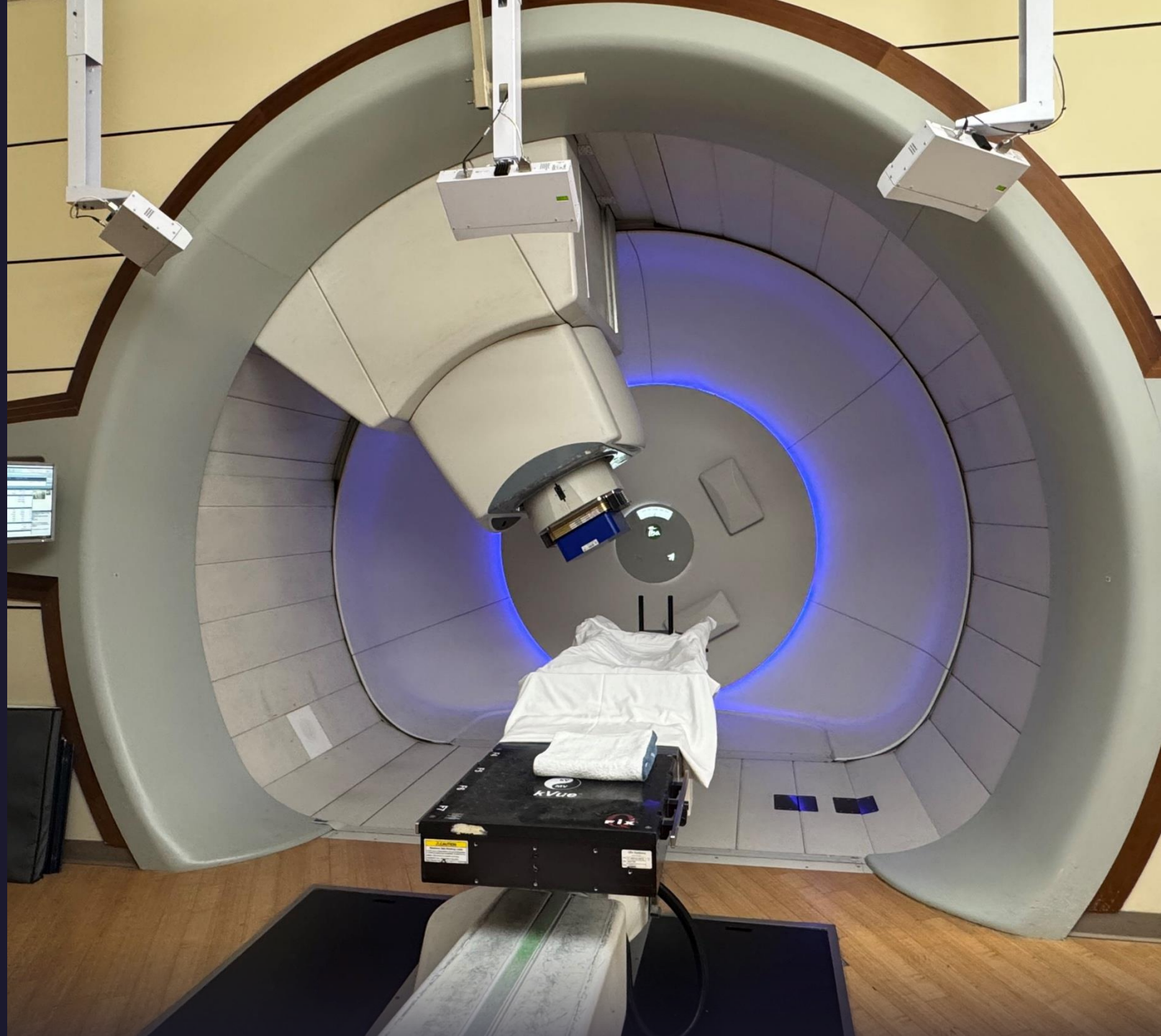
Oklahoma Proton Center

- Built in 2009
- 6th Proton Center, in the US, originally a Procure site
- 1 IBA Cyclotron
- 4 Treatment rooms
- 3 Physicians FT
- 2 Physicians PT
- 5 Physicist
- 4 Dosimetrist
- 16 Radiation Therapist
- TX approximately 625pts/yr



Treatmet Rooms

- The Gantry / TR4
 - Currently Uniform Scanning Beam
 - Commissioning Pencil Beam July 2025
 - AlignRT Version-2 cameras
 - Installed alignRT January 2024
 - Tx 28-30 patients/day



Treatmet Rooms

- Incline Beam / TR3
 - Uniform Scanning Beam
 - AlignRT Version-3 cameras
 - Installed AlignRT October 2024
 - Tx 14-20 patients/day



Treatment Room 4 Benefits

Initial setup accuracy is improved

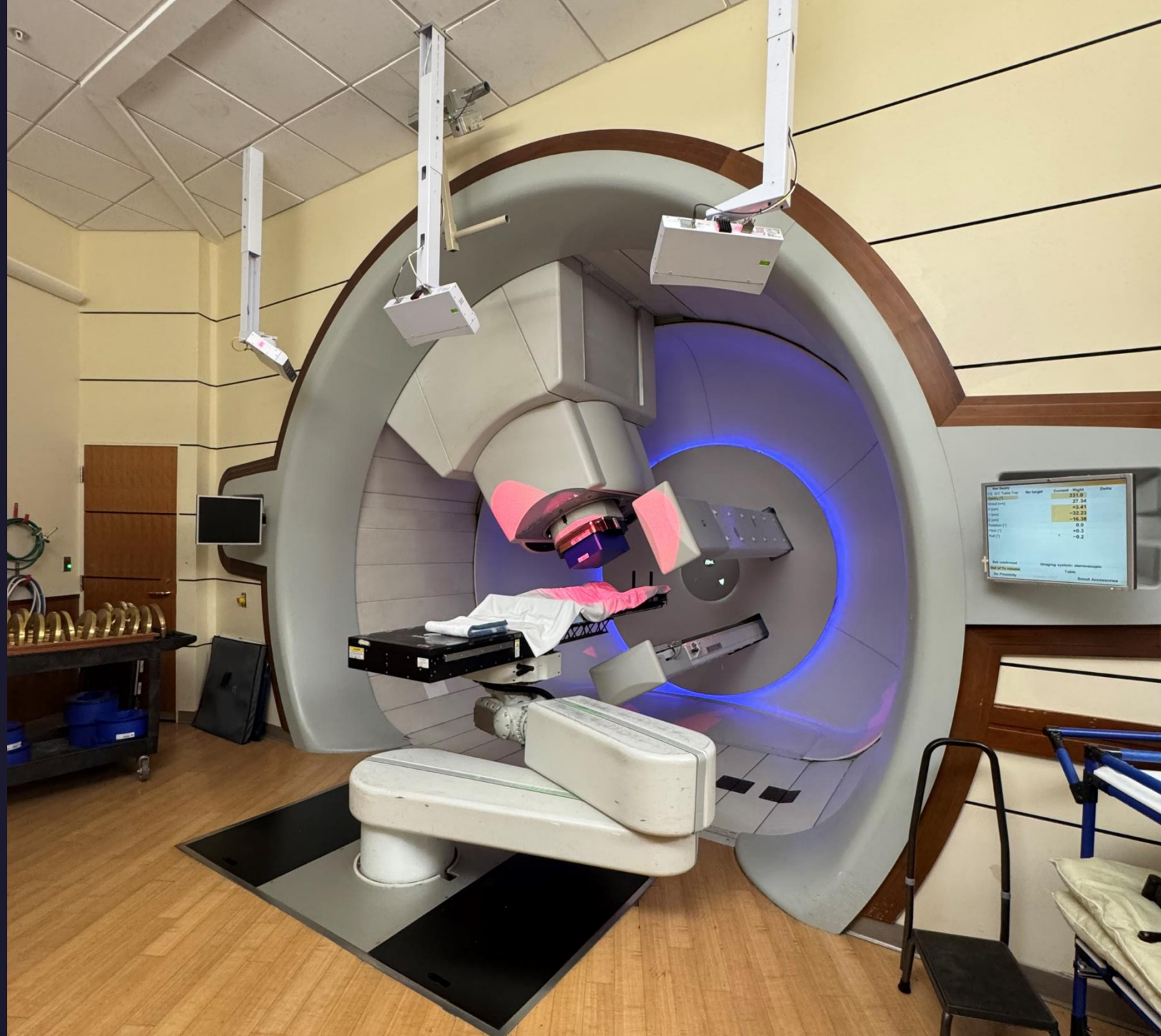
Faster setup time for all PTs

Reduce Repeat images

Real Time Coach for breath hold-Visual coaching aid. Lung, Breast, Liver

alignRT helps ensure patients don't move after setup when waiting for beam

Easy to learn by new RTT staff



Treatment Room 3 Benefits

- Decubitus breast setup time decreased
- Pt Positioning was more accurate
- Decreased table overrides
- Reduced repeat imaging
- Reduced setup errors
- Patients' confidence increased with use of AlignRT
- RTT confidence in breast setup improved





AlignRT Installation & Training

- Site survey 1 evening to ensure the best camera position, AlignRT engineer
- Room modification 2-3 weeks, inhouse engineers & IT
- Installation/acceptance 3 evenings 4-8pm, alignRT engineer & OPC Physics
- Onsite ClinApp Training 2 days, Joseph, Lauren, Maryelisabeth – Simply the Best!

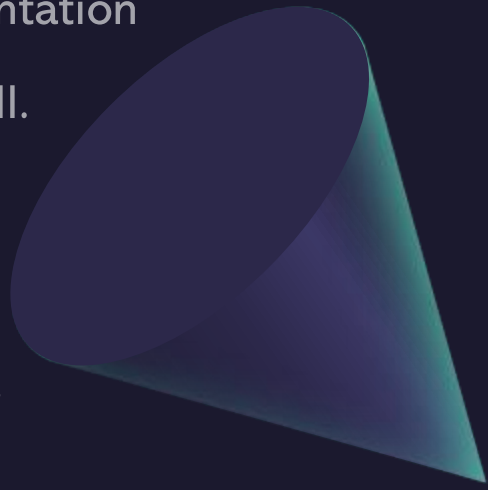
QA procedure, ROI setup, ROI adj at machine, Postural Video, Documentation

- Follow up trainings after initial go-live, Scheduled 3-6 months post install.

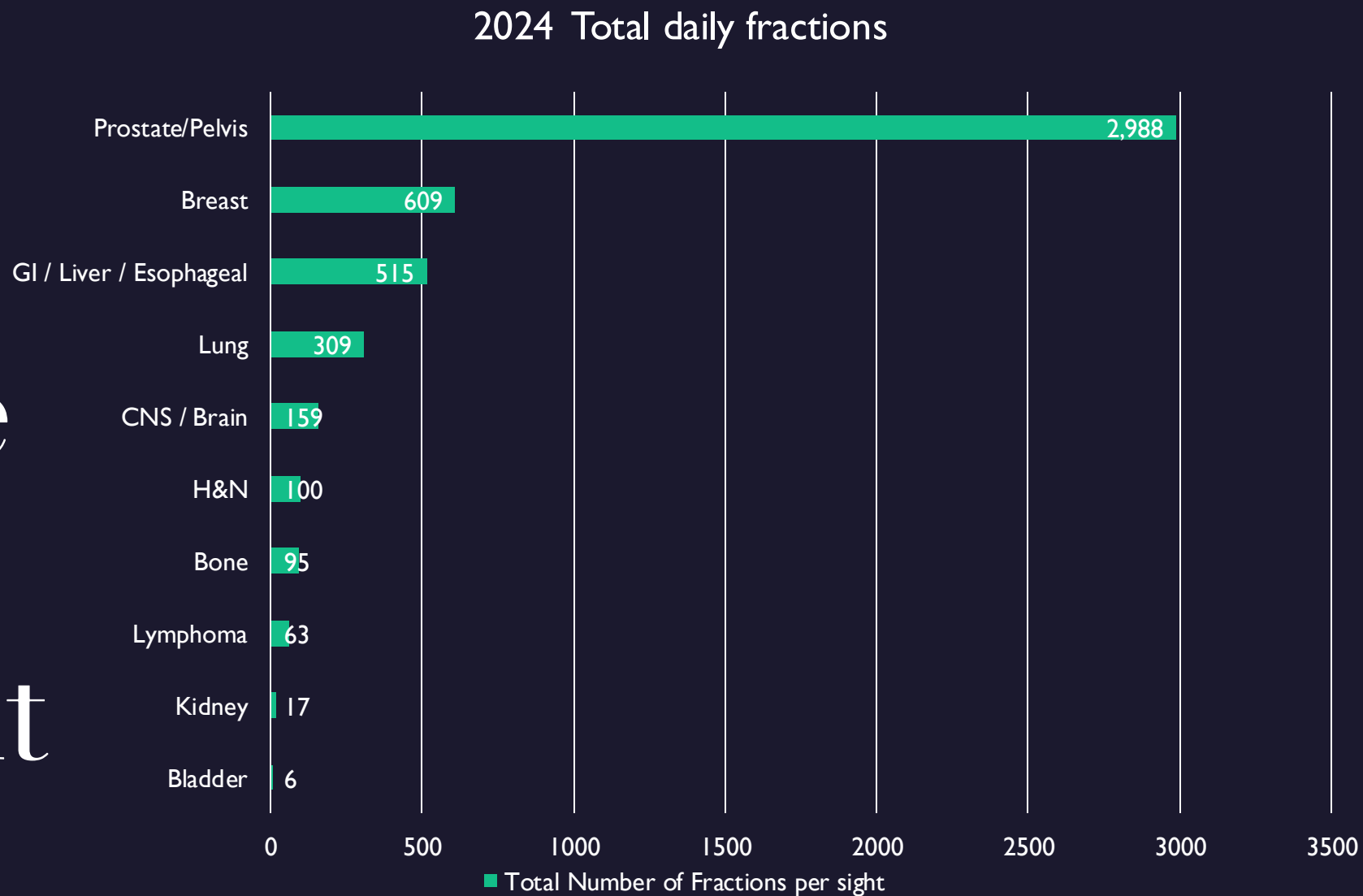
Breath hold training - training tailored to OPC

Review of use for all Tx sights

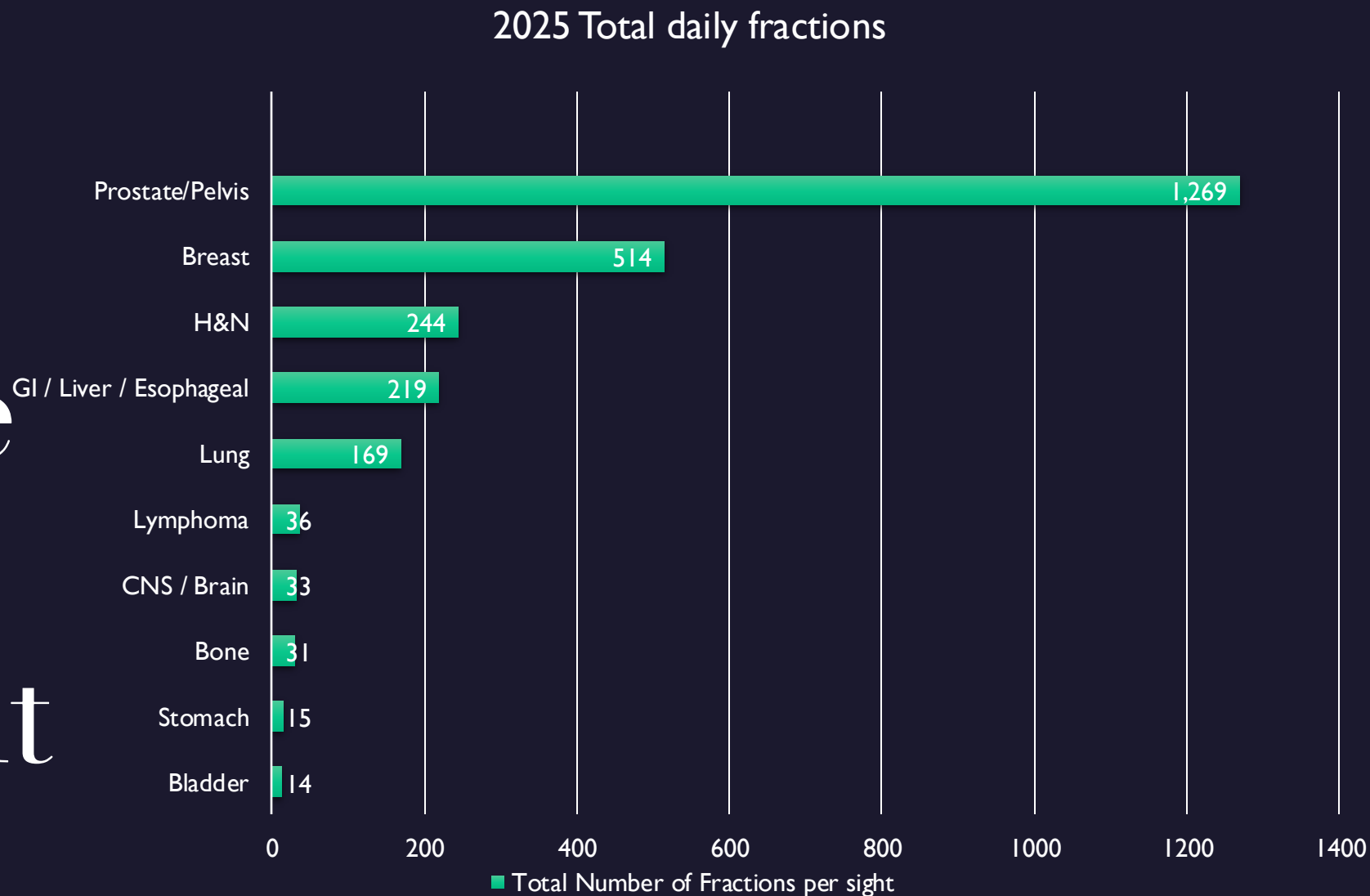
Deeper dive into ROI optimization, workflow review, archiving patients



2024 Volume by Tx Sight



2025 Volume by Tx Sight





Impact to Daily Operations

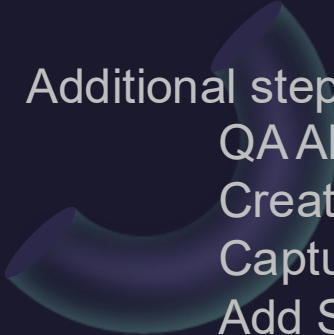
Documentation needed:

- Physician Order for SGRT – Physician / course of TX
- Daily SGRT report / document - RTT / every fraction

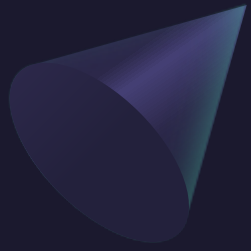
Impact of staff:

- Physician orders SGRT added to written Rx
- Initial body contours exported to AlignRT - Dosimetrist
- Daily SGRT report generated – AlignRT generated automatically!
- SGRT report exported / imported to PT Chart (EMR) - RTT
- Ensure SGRT was billed correctly with modifier - RTT

Additional steps you may have to do:



- QA AlignRT Cameras (adds to daily warm up time) - RTT
- Create ROI for each PT (in advance preferred) - RTT
- Capture images during TX for documentation vs autogenerated - RTT
- Add SGRT Document to PT Chart (for mosaic it's an e-scan document)



Center Reimbursement

How is your ROI – Are we getting reimbursed? YES!



Results 2024

TR4 - 12 months - 4088 Fractions
TR3 - 3 months - 720 Fractions
No Room assigned - 49 fractions
251 PTs Treated - 4857 Fractions Total

Results 2025

TR4 - 4 months - 1400 Fractions
TR3 - 4 months - 633 Fractions
No Room assigned - 63 Fractions
150 PTs Treated - 2096 Fraction Total



AlignRT Benefits for Proton Therapy, Our Experience

- 1st System installed January 2024, Gantry TX Room 4
- added 2nd system installed October 2024, incline TX Room 3
- Adding SimRT in 3rd or 4th QTR 2025
- 2024 Treated 625 patients, 38% of patient with SGRT average #Fractions/patient 19
- 2025 Jan through April treated 214 patients, 70% of patients with SGRT average # fractions/patient 14 (increase in breast Tx and SBRT Tx)
- Reimbursement is good. Overall 80% of claims are paid to date
 - *You will need to appeal some claims to get paid
- Next steps - Open faced masks, started breath hold with Liver, Lung, Breast
- VisionRT provided documentation and billing recommendations which were critical to successful implementation of SGRT at the Oklahoma Proton Center
- Questions?