

Healthcare Utilization and Organization

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SIH Prairie Heart Institute is the leading provider of cardiac care across the 16 southernmost counties of Illinois.

- » SIH includes 4 hospitals; 1 PCI center and 3 acute care hospitals
- » SIH Memorial Hospital of Carbondale (MHC) is the PCI capable facility for SIH Prairie Heart Institute; includes:
 - » 3 interventional cardiologists
 - » 5 general cardiologists
 - » 3 CT surgeons
 - » 1 vascular surgeon
- » Region has a well-established STEMI program including 7 other local acute care hospitals
- » Care for Pulmonary Embolism patients was inconsistent and lacked a standardized process
- » 2024 multi-disciplinary initiative was launched: PE Response Program
 - » Program goals were to improve timely diagnosis, coordination, and treatment

» PERT
Participating
Sites

- ★ Receiving Hospital
- SIH Facility
- Referral Hospital

Methods

- » Data collection and gap analysis
- » Proposal developed with support from key stakeholders for a guaranteed bed placement at MHC
- » Algorithm Design

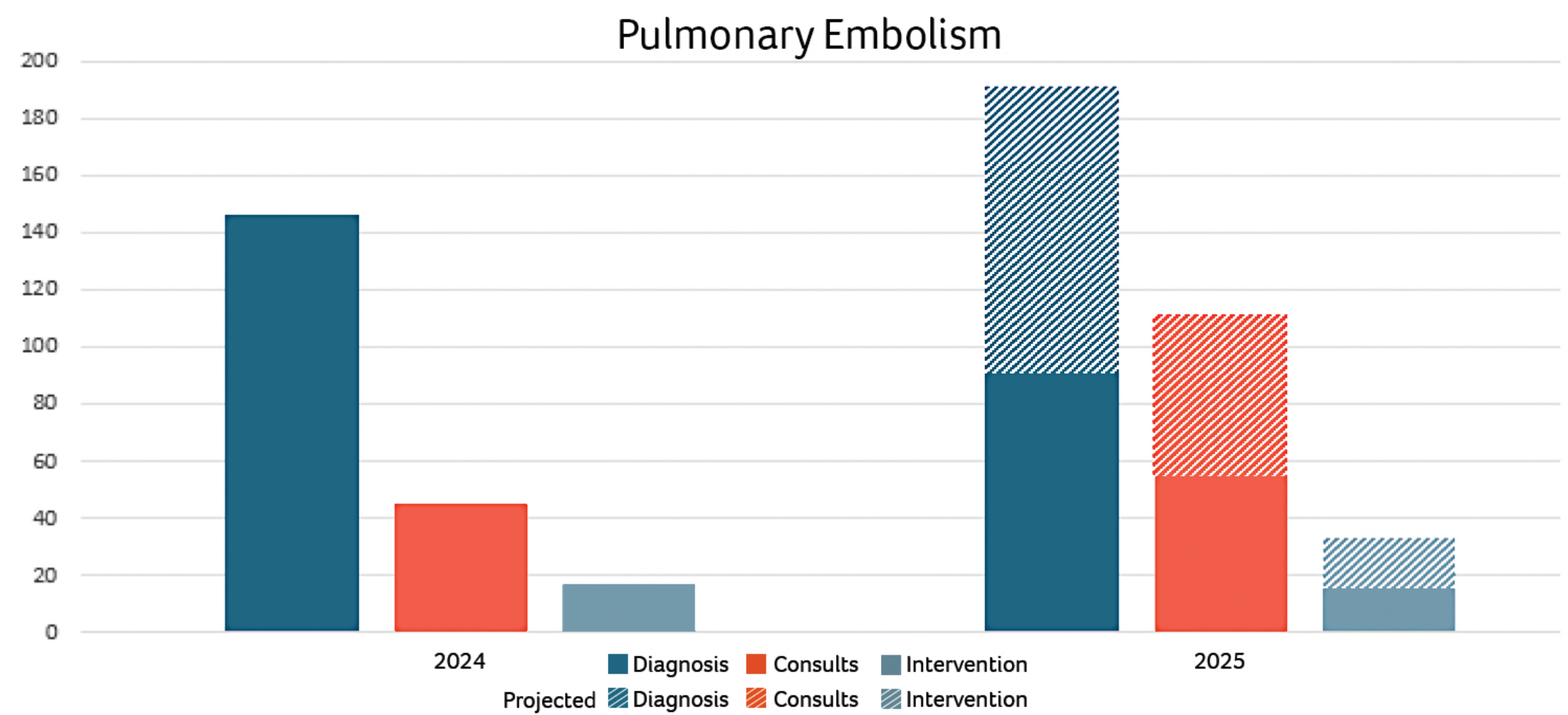


» Scan to view the P. E. Response Algorithm

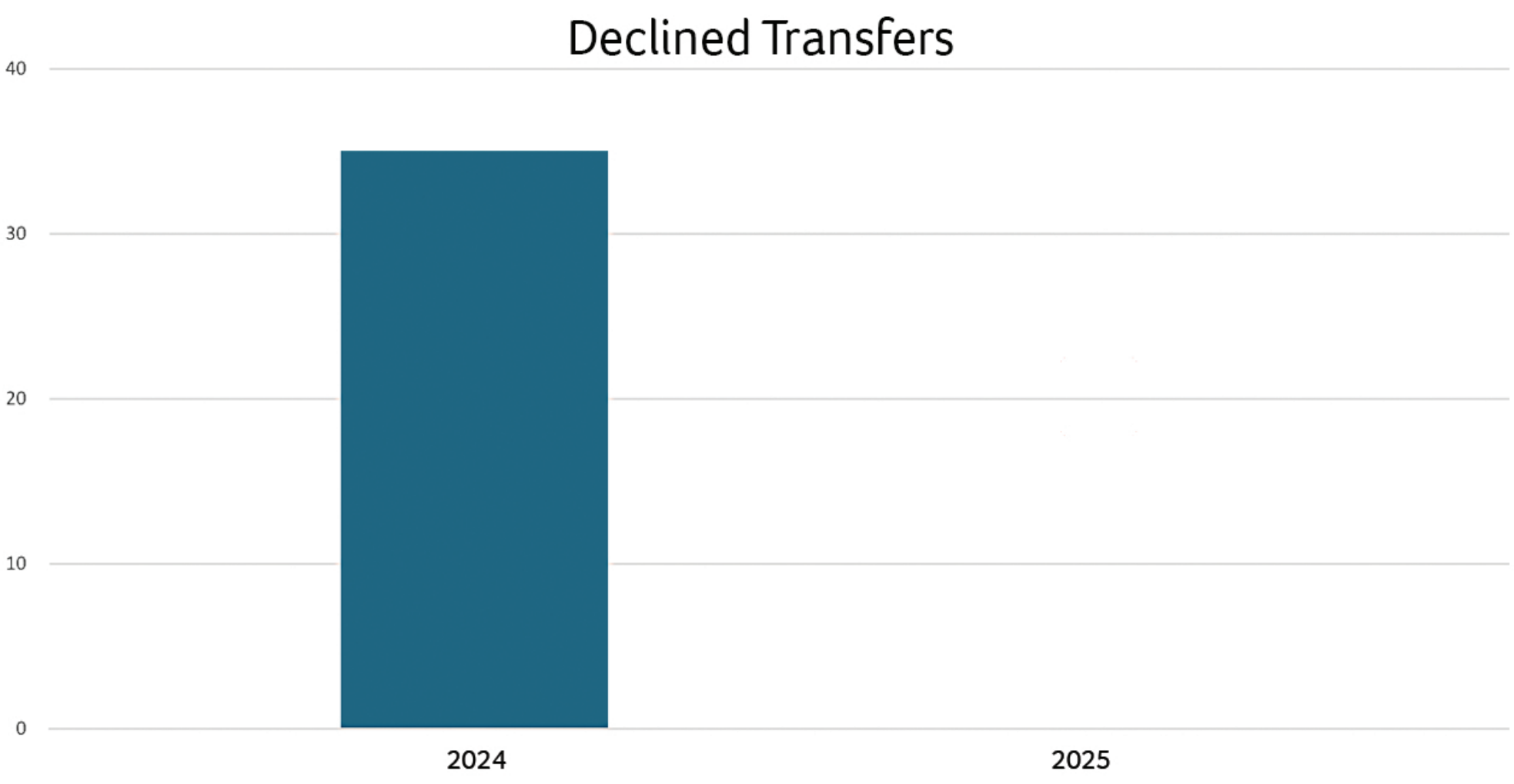
- » Pathway education and roll out across 11 hospitals in the region which included ancillary staff, hospitalists, emergency physicians, administration, and EMS
- » Procedural education to cardiologist and cath lab staff with on call expectations
- » Established metrics for internal tracking pre and post program development
- » Coordinated call coverage to ensure there were no gaps for intervention



- » Overall decrease in length of stay
- » Continuous feedback after each activation which includes patient specific report emailed to care team
- » Positive clinical feedback supports the ease of the PE response algorithm



» Fig 1: Increase in diagnosis to consult (Jan-June 25 shown above)



» Fig 2: No missed activations related to bed or staff availability



Conclusion

- » The development and implementation of the PE Response Program at SIH Prairie Heart Institute has significantly enhanced coordination of care, reduced treatment delays, and optimized the use of internal resources.
- » Standardizing care through algorithm driven processes ensures equitable access to interventional therapies and supports improved outcomes.
- » The programs success underscores the importance of system-level collaboration in advancing regional cardiovascular care.



References

- » Dr. Raed Al-Dallow, Interventional Cardiologist and Executive Medical Director of Cardiology at SIH Prairie Heart Institute
- » Jaber, W. A., Fong, P. P., Weisz, G., Lattouf, O., Jenkins, J., Rosenfield, K., Rab, T., & Ramee, S. (2016). *Acute Pulmonary Embolism: With an Emphasis on an Interventional Approach* Journal of the American College of Cardiology, 67(8) 1141-1150