



Using Intravascular Imaging to Optimize Percutaneous Coronary Intervention Treatment

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BACKGROUND

Research consistently supports procedural and long-term patient benefit with the use of intravascular imaging percutaneous coronary intervention optimization. Low adoption of these technologies is believed to be due to operator and staff inexperience with these tools.

VALUE PROPOSITION

Patients-improved procedural safety and clinical outcomes.
Payers-decreased clinical outcomes equal decrease cost.

CONCLUSION

By providing education and resources to clinicians and their staff regarding rationale, clinical techniques, and workflow integration of intravascular imaging, we have been able to increase use of these technologies throughout our state.

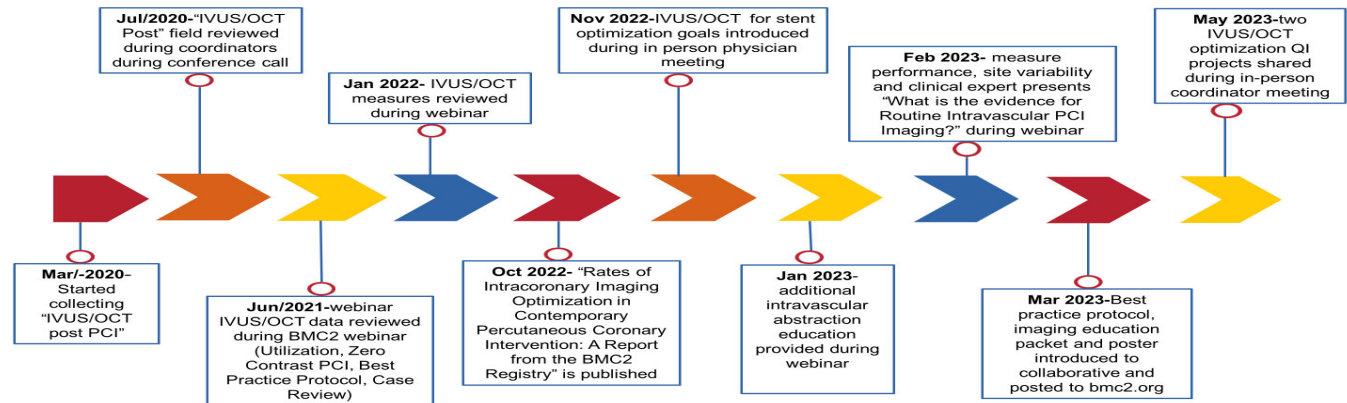
REFERENCES

Shlofmitz E, Ali ZA, Maehara A, Mintz GS, Shlofmitz R, Jeremias A. Intravascular Imaging-Guided Percutaneous Coronary Intervention: A Universal Approach for Optimization of Stent Implantation. *Circ Cardiovasc Interv.* 2020 Dec;13(12):e008686. doi: 10.1161/CIRCINTERVENTIONS.120.008686. Epub 2020 Nov 25. PMID: 33233934.

DISCLOSURES

I have no disclosures/conflicts of interest.

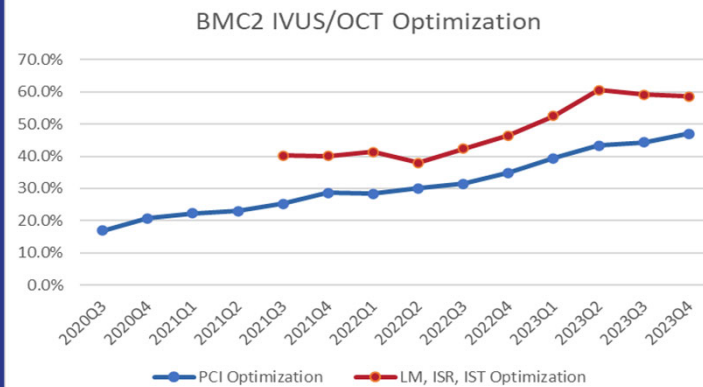
METHODS



RESULTS

Intravascular imaging use for PCI optimization in all PCI cases increased from 16.9% in third quarter of 2020 to 47.0% in fourth quarter of 2023. This equals a percent change of 176.47%.

Intravascular imaging use for PCI optimization in PCI cases involving the left main coronary artery, in-stent restenosis, or stent thrombosis increased from 40.2% in third quarter of 2021 to 58.6% in fourth quarter of 2023. This equals a percent change of 45.8%



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