

Identifying Acute MI patients via the use of an embedded EHR quality measure

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Introduction

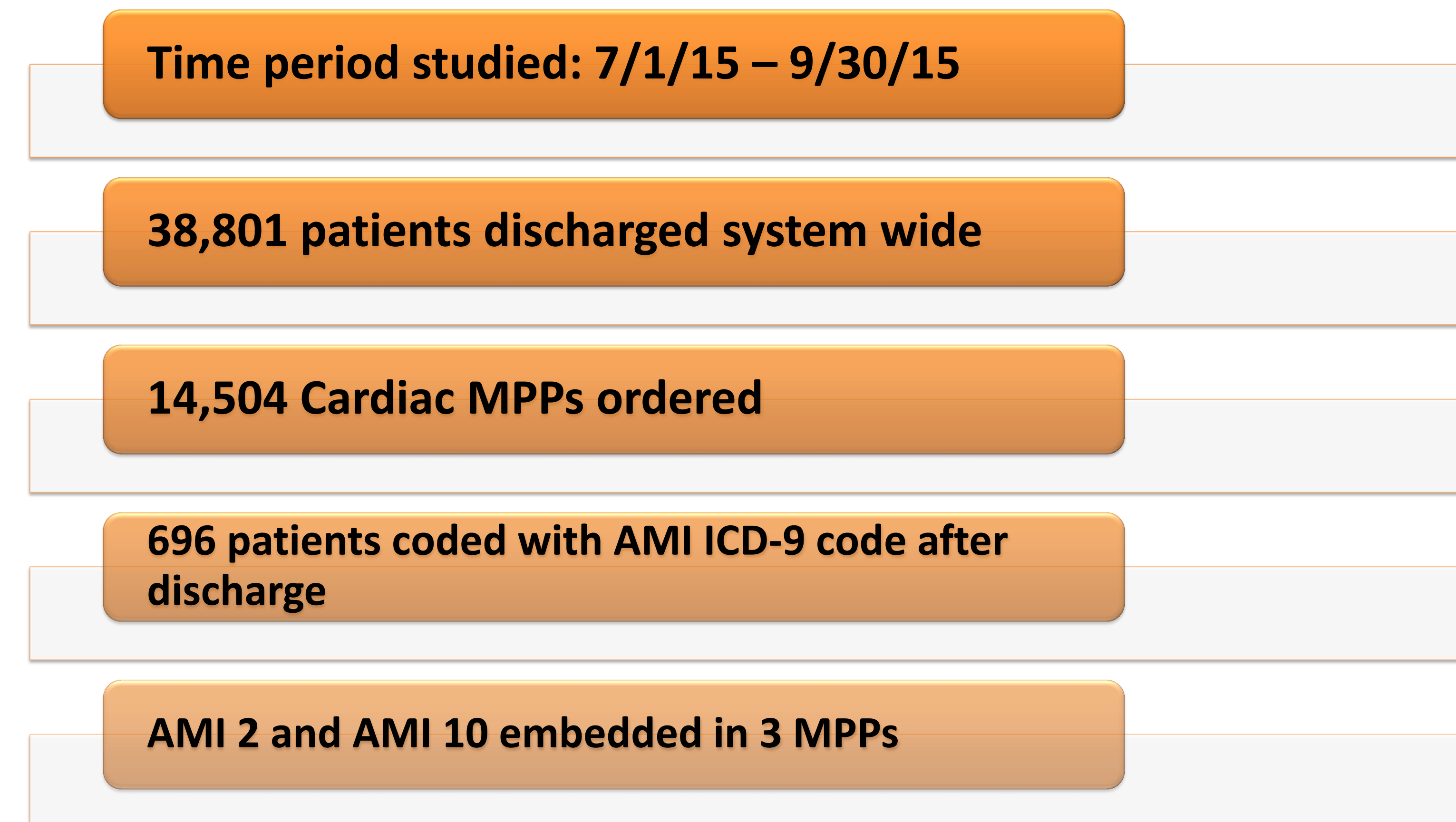
Acute myocardial infarction (AMI) patients are challenging to identify in the EHR from a Quality perspective

- How do you correctly identify and categorize AMI patients in the EHR when they are admitted to the hospital?
- Did the embedded quality measure in 3 of the 52 Cardiac MPPs (Medical Power Plans) accurately identify these patients?

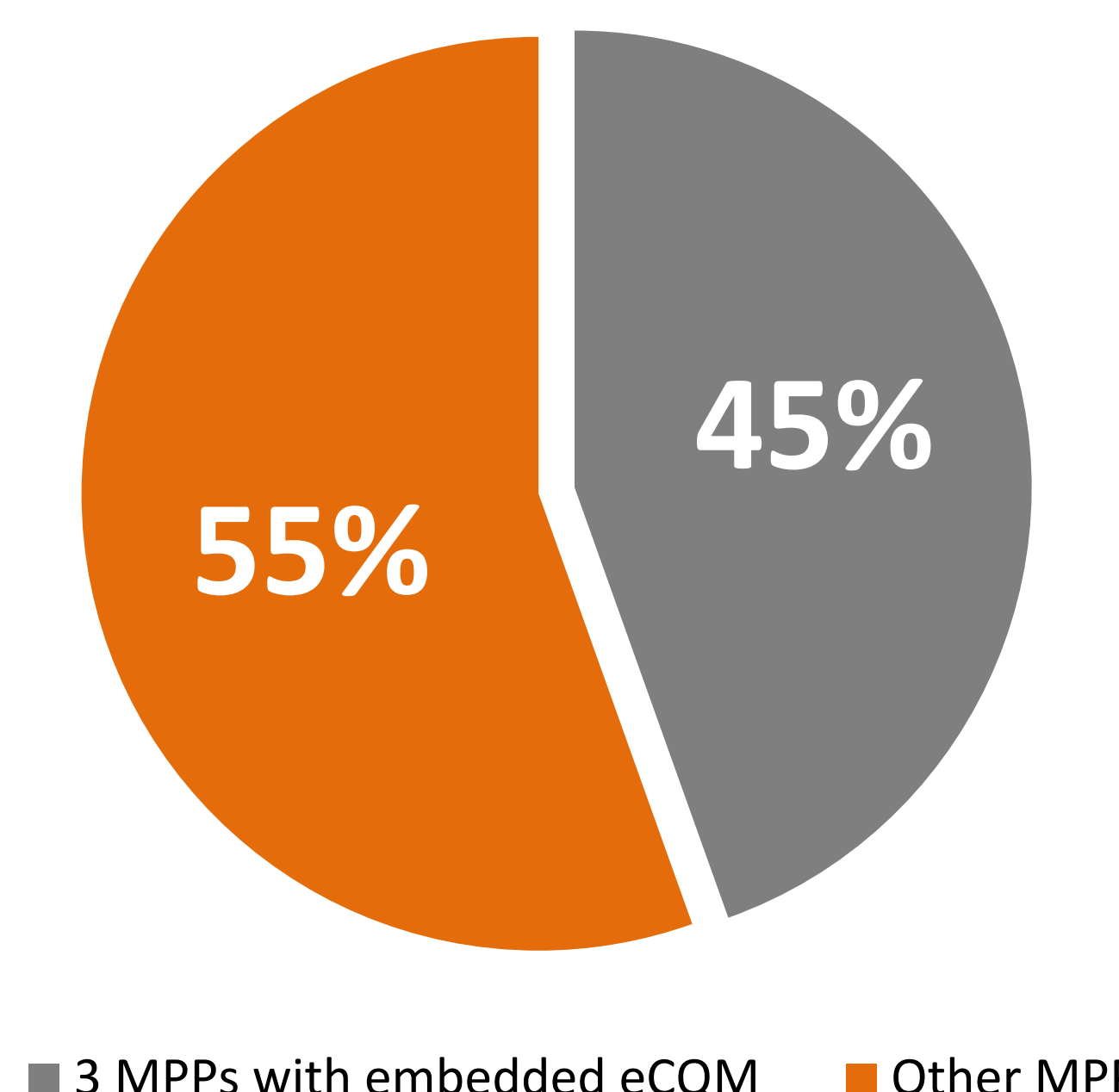
Methods

Report #	Description	Origin
Report 1	Patient encounters discharged 7/1/15 to 9/30/15 with an AMI ICD-9 code	Quality
Report 2	Patient encounters with MPP 1, MPP 2, MPP 14 ordered 7/1/15 to 9/30/15	Medical Informatics
Report 3	Merged Report for data analysis	Reports # 1 and # 2
Report 4	Patient encounters with MPP 1, MPP 2, MPP 14 discharged 7/1/15 to 9/30/15	Medical Informatics
Report 5	Patient encounters with MPP 1, MPP 2, MPP 14 filtered by AMI quality measure selected	Medical Informatics
Report 6	Patient encounters with MPP 1, MPP 2, MPP 14 discharged 7/1/15 to 9/30/15 filtered by AMI quality measure selected	Medical Informatics
Report 7	Merged report for data analysis	Reports # 1 and # 6
Report 8	Patient encounters with all 52 Cardiac MPPs discharged 7/1/15 to 9/30/15	Medical Informatics
Report 9	Merged report for final data analysis	Reports # 7 and #8
Report 10	Patient encounters with MPP 8, MPP13, MPP 24, MPP 38, and non-cardiac MPP 53 (ED STEMI)	Medical Informatics
Report 11	Merged report for final data analysis	Reports # 9 and #10

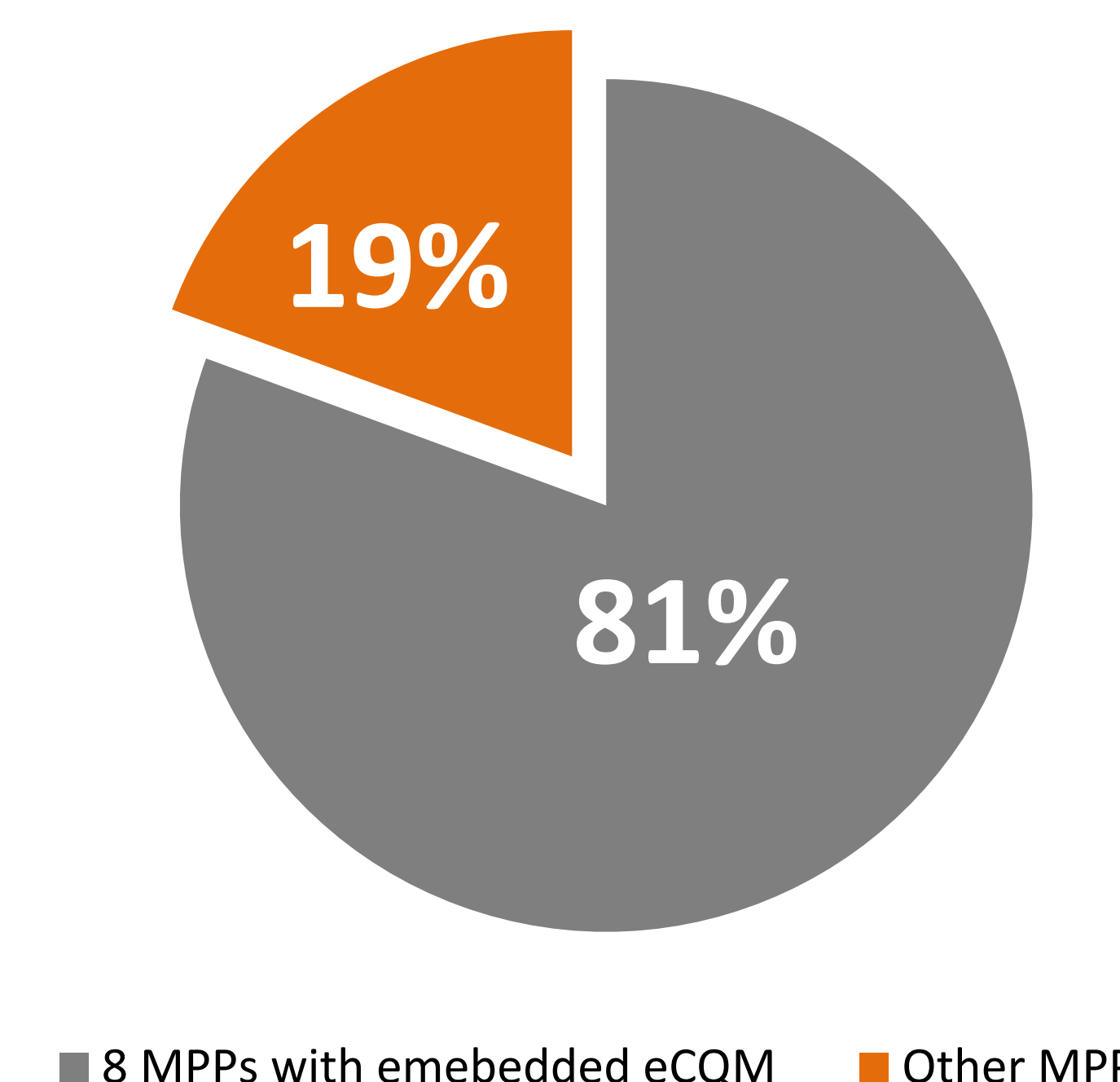
Results



Embedding the quality measure in 3 MPPs only captured 45% of patients discharged with an AMI ICD-9 code



Embedding the quality measure in 8 total MPPs (7 cardiac and one ED) would have captured 81% of patients discharged with an AMI ICD-9 code



Discussion

Analysis of Clinician Medical Power Plan usage in the EHR is an important first step in determining where to embed electronic quality measures

- Identify if the correct MPPs are being used within the EHR to capture a specific population
- Collaborate with clinicians to make changes to MPPs as needed
- Does embedding a quality measure ensure it will be used?
- Do all patients with a certain MPP need the embedded quality measure?

Acknowledgements

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References

Available upon request