



HealthEM.AI

Case Study



Predictive Analytics for a Medicare Advantage Plan



BACKGROUND

- › A medical group with a population size ~25,000 Medicare lives required AI/ML based predictive analytics that can predict future medical cost and predict probability of ER events (visits + Admission) in the next 6 to 12 mo.



SPECIFICATIONS

- › ~25,000 Medicare lives with claims (Pharmacy + Medical) and Eligibility data
- › Include Census data to understand the patient demographics and social determinants of health
- › Create the Datawarehouse at a time month level for performance analytics and other use cases
- › Create AI/ML models to predict member future cost
- › Create AI/ML models to predict ER events (Visits + Admission) in the next 12 months
- › Implement an operational plan to execute the predict patient list program
- › Inability to identify the patterns and characteristics to reduce un-necessary emergency room utilization by proactive care management



Solution and Approach



Multi-dimensional cost/outcomes/risk analysis based on this prediction, that identifies opportunities for utilization and care management.



Developed proprietary predictive algorithms using Clinical and Non-Clinical (SDoH) that proactively identify member behavior by understanding past network care gap patterns, historic utilization resources, and referral and medication compliance.



This analysis was used to prioritize which patients to target and intervene before they ended up in an inpatient setting



Created performance dashboard to view trend (cost and outcomes) and compare between clinics, zip codes and physicians



Thank You



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