





Direct MRI Scheduling: Improving Patient Access To Imaging Care In An Underserved Patient Population

Shlomit Goldberg-Stein¹, Mark Liszewski², Eras Chong², Kenny Ye², Bradley Clemente², Judy Yee²

¹Northwell Health, Northwell-Hofstra School of Medicine

²Montefiore Medical Center, Albert Einstein College of Medicine

RSNA 2021 Shlomit Goldberg Stein, MD



@ShlomitGStein



sgoldbergste@northwell.edu

Purpose

To improve access to imaging care in an underserved, at-risk, primarily Hispanic and Black patient population with 80% of patients having Medicare/Medicaid as their primary insurance



- IT solution was implemented within the EMR to enable MRI scheduling at the point of care in subspecialty clinics, a program we entitled MRI Direct Scheduling (MDS)
- MDS eliminates the need for patients to separately contact the Access Center for an imaging appointment

- With MDS, patients complete their clinic visit with an imaging appointment in hand, and with screening and preparatory information directly communicated
- MDS could mitigate existing barriers to imaging care including language and health literacy challenges associated with MRI scheduling, MRI screening, and pre-exam preparation by providing scheduling at the point of care in clinic

 A standardized video-format training module was developed to educate scheduling staff at the clinical sites on the new IT workflow

 Module completion was a requirement for the granting of access to the workflow embedded within the EMR

 Marketing materials were developed, and interdepartmental leadership meetings were held to pitch the use of MDS by the clinics

- MDS was piloted by the Orthopedics Dept as follows
- Direct scheduling was enabled for 7 MRI units at 4 free-standing urban outpatient imaging facilities within a four-mile radius
- Descriptive statistics were collected on MDS utilization in 2017-2020 (note: 2020 data was impacted by COVID-19 outpatient volumes)
- Logistic regression model was applied to identify demographic factors significantly associated with MDS utilization (p<0.05)

Results

- 25% of all Orthopedic MRI exams were scheduled through MDS, indicating a high level of engagement with the program
- In the same period, there was increase in Orthopedic MRI volume growth of 39% and 38% in 2018 and 2019, which saw an overall growth of 6% and 8% in MRI, respectively
- MRI Orthopedic volume increased year-over year in 2017 by 14%, in 2018 by 16%, and in 2019 by 16%

Results



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 Ease of access to appointments and was identified by Orthopedics leadership as a cause for this improvement in volume capture for Orthopedic – ordered MRI's

 Non- Hispanic White patients were 15% less likely to utilize Direct Scheduling compared to Hispanic and Non-Hispanic Black patients (p<0.001)

Conclusions

 The MDS program experienced a high level of engagement by Orthopedics patients, particularly Hispanic and Non-Hispanic Black patients

 The direct pathway for securing imaging appointments was associated with increases in MRI volume for the health system