Patients with cancer experience a wide range of symptoms, which can go undetected up to 50% of the time in clinic.1 Electronic patient-reported outcomes (ePROs) can help fill this gap by allowing patients to directly report on their own experiences in a systematic way. Use of ePROs can improve quality of life, reduce trips to the emergency department and lengthen survival.2

The problem: Despite proven benefits, ePROs are not widely integrated into clinical care.

**BACKGROUND**

Patients with cancer experience a wide range of symptoms, which can go undetected up to 50% of the time in clinic.1

Electronic patient-reported outcomes (ePROs) can help fill this gap by allowing patients to directly report on their own experiences in a systematic way.

Use of ePROs can improve quality of life, reduce trips to the emergency department and lengthen survival.2

**OBJECTIVES**

Demonstrate the feasibility and utility of integrating ePROs the existing Epic® electronic health record (EHR)

Promote a more proactive system of symptom management

**PILOT DESIGN**

Selected validated ePRO questionnaire: ESAS-r3

Partnered with internal technology team to activate built-in Epic® ePRO tool

Launched in three outpatient oncology clinics: hematology, gastrointestinal oncology and radiation oncology

**RESULTS**

Feasible: ePRO questionnaire integrated into patient and provider facing Epic® platforms and launched in three months

**Barriers:**
- Clinical workflow initially complex
- Low patient engagement

**FIGURE 1:** MyChart® to the Clinical Note

1. ePRO Survey for Patients
2. Patient Generated Data for Clinicians
3. Patient Generated Data for the Clinical Note

**FIGURE 2:** ePRO Response Rates

**FIGURE 3:** PDSA Cycles

Automated MyChart Reminder
- Phone Call
- Personalized MyChart Message
- Tablets at Check-in

**CONCLUSION**

Technical implementation
Epic’s built-in ePRO tool is quick to customize and activate

Clinical workflow optimization
Successes:
- SmartPhrase for clinical note
- Symptom trends over time

Barrier:
- Time required for clinicians to “file” patient data

Solution: Epic® 2018 upgrade streamlined dataflow

Patient engagement
Barrier:
- Low response rates to ePRO questionnaire through MyChart®

Solutions:
- Clinicians review results with patients during clinic visit
- PDSA cycles with different patient engagement strategies

**References**

2. Basch, et al. JAMA 2017

Questions?
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