A “Lean” Application in Documenting Patient Education

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Patient Education
About UUHC
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Problem Statement

Patient education impacts:
• Outcomes/Quality of care
• Patient satisfaction
• Accreditation
• Meaningful Use (MU) reimbursement

Varied processes for providing patient education exist, but not all can be audited to demonstrate compliance with the MU measure which becomes more stringent with future Phases.
Gemba

Two Outpatient Clinics
Representing a continuum of current Meaningful Use compliance

6 Team Members

FOLLOWED

11 Providers

ACROSS

38 Patient Interactions

USING

Standardized Shadow Protocol
Root Cause Analysis

Synthesis of Shadow Protocol Data Revealed:

- Inconsistent process for documentation
- Variable provider awareness/education of Meaningful Use patient instruction requirements
- Gaps in clinical references, differing personal preference of reference material
- Poor usability of patient education resource as embedded in EHR
Desired Results

- Patient calls for appointment
- Scheduling
- Check-in
- Preliminary Assessment

Outpatient in room with Provider

- Provider utilizes EPIC workflow for patient education resources

- Auto-populated in EMR
- Free-text entry, "phrase"
- Additional search in EMR

Embedded in After Visit Summary

Documented in EMR

- Follow-up scheduled in MyChart
- Patient Education in MyChart

- Visit Reason coded and bulk prepared
Improvements

- Clinic dashboard to track compliance over time
- MU patient instruction focused script added to EHR training
- Emphasize standard EHR workflow for documentation
- License expanded library of reference material
- Standardize workflow for custom content
Sustaining Measures

- Patient Education Steering Committee
- Focused IT support for patient education initiatives in EHR, liaison with content vendor
- Leverage IT training to accommodate changes in practice
Financial Impact

- Phase II Meaningful Use Compliance 2014

- Cost Avoidance
  For every minute of physician time saved per patient encounter
  $2,231,053 in annual savings

- Revenue Generation
  1 Additional patient encounter per day
  $ 200 average revenue from a single outpatient encounter
  343 MU eligible providers
  X 225 working days per year
  $15,435,000 in additional revenue annually

On the average, for every dollar invested in patient education, $3-4 was saved. [ $4.50-6.00 in 2013]


Incorporation of an educational program into clinical visits for patients with chronic disease improved disease-specific knowledge and prompted patients to become activated and involved in their care, improving health behaviors and outcomes. Lower health literacy was not a barrier to this beneficial effect. Patients with lower health literacy may also benefit from educational, shared decision-making interventions.


Written information led to more favourable assessments of the quality of information and had no impact on patient anxiety nor on the overall assessment of the endoscopy. Because structured and comprehensive written information is perceived as beneficial by patients, gastroenterologists should clearly explain to their patients the risks, benefits and alternatives of endoscopic procedures.


Study estimates the economic costs and benefits of brief physician advice in managed care settings. The total economic benefit of the brief intervention was $423,519 (95% CI: $35,947, $884,848), composed of $195,448 (95% CI: $36,734, $389,160) in savings in emergency department and hospital use and $228,071 (95% CI: -$191,419, $757,303) in avoided costs of crime and motor vehicle accidents. The average (per subject) benefit was $1,151 (95% CI: $92, $2,257). The estimated total economic cost of the intervention was $80,210, or $205 per subject. The benefit-cost ratio was 5.6:1 (95% CI: 0.4, 11.0), or $56,263 in total benefit for every $10,000 invested.

Study to explore the effects and health economic consequences of patient education in patients with COPD in a 12-month follow-up. Patient education reduced the need for GP visits with 85% (from 3.4 to 0.5, P<0.001) and kept a greater proportion independent of their GP during the 12-month follow-up, compared with no education (73% versus 15%, respectively). Patient education reduced the need for reliever medication from 290 to 125 The control and intervention groups induced mean total costs of NOK 19,900 and 10,600 per patient, respectively. [NOK 19,900 = 3,630.54 US dollars; NOK 10,600 = 1,933.85 US dollars] For every NOK put into patient education, there was a saving of 4.8. Patient education of patients with COPD improved patient outcomes and reduced costs in a 12-month follow-up.

http://www.mckinseyquarterly.com/A_better_hospital_experience_2081
77% of patients would switch hospitals for better communication.


A large minority of patients have poor reading skills, but when a drug information leaflet is designed to be easy to read patients gain significant amounts of knowledge from it. Providing additional verbal explanations did bring about increases in knowledge but these were not significant.


Patients must be given sufficient information to make decisions and to take responsibility for self-management activities related to their needs. Patients, and, as appropriate, their families are educated to improve individual outcomes by promoting health behaviors and appropriately involving patients in their care, treatment, and service decisions.

Wide measure-by-measure variation in accuracy threatens the validity of electronic reporting. If variation is not addressed, financial incentives intended to reward high quality may not be given to the highest-quality providers.


Costs of care, including the cost of the intervention, were lower in patients receiving the education intervention than in control subjects by 2823 dollars per patient (P=0.035).

Kreofsky L. Engaging staff to engage patients: Patient engagement is essential for meaningful use, and studies show it is becoming more definitively linked to consumer satisfaction. Health Management Technology. 2013 Feb; 34(2):12-3.


The multivariate regression results show that meeting information needs are positively and significantly associated with both patient satisfaction measures (i.e., Ratings of Care Processes, p < 0.01; Global Satisfaction, p < 0.05, Perceived Health Benefit, p < 0.01) and one general health status measure (i.e. Quality of Life, p < 0.01). CONCLUSION: The results suggest that providers of care should ensure that they meet the information needs of patients with specific conditions because patients’ perceptions of both quality of care and quality of life are associated with the clinicians’ ability to transfer key information to their patients.


Staff involvement in format design and development combined with consistent feedback and evaluation resulted in improved documentation compliance. Future work is focused on the quality of evaluations of patient learning needs and electronic recording of patient teaching and education.

Bibliography
Of those online, 86% are concerned about the reliability of the information they find at 25,000+ health-related websites, and 75% cite their doctor's direction as the most important source for guidance to quality health content.


For optimal comprehension and compliance, patient education material should be written at a sixth-grade or lower reading level, preferably including pictures and illustrations. All patients prefer reading medical information written in dear and concise language. [From article: Poor health literacy results in $69 billion in health care costs annually.]


Patients increasingly expect written information; however amount, quality and timeliness vary considerably. PRACTICE IMPLICATIONS: Providing patients with commercially produced standardized information in addition to internally produced hospital information could have an additional, though limited, benefit to patients' health outcomes. This could be a way of incorporating the expertise of both providers to the patient's benefit.


Nearly half of consumers (48%) would fill out an online medical assessment to get personalized health information.


Research suggests patients forget somewhere between 40 and 80 percent of medical information given immediately after the visit. Of the information that is remembered, almost half is remembered incorrectly. The After Visit Summary is an Information Therapy tool that can be used to help patients remember pertinent medical information.