Reducing HIT Burden & Improving Outcomes

Building Evidence-Based, Policy-Driven EMR Protocols

1st Trimester Bleeding

SME Input

BPM+ (BPMN, CMMN, DMN)

ACOG Mission
The American College of Obstetricians and Gynecologists is a membership organization dedicated to the advancement of women’s health care and the professional and socioeconomic interests of its members through continuing medical education, practice, research, and advocacy.

Current Challenges
• Outcomes less than ideal
• Care is complicated & with a 17-year gap
• Siloed Data
• EHRs are a huge source of physician burden
• Declining Fee-for-Service Compensation

Physician Burden
• ED Patients: New, unscheduled & often
• Variable patterns of care in the ED
• Data Discovery Burden (past meds, PMH)
• Hospital EHRs: Poor workflow designs

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ACEP Mission
The American College of Emergency Physicians promotes the highest quality of emergency care and is the leading advocate for emergency physicians, their patients, and the public.

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Business Process Management Plus (BPM+)
An Ideal Model

• 3-in-1:
  • BPMN: Business Process Model and Notation
  • CMMN: Case Management Model and Notation
  • DMN: Decision Model and Notation
• Human & machine readable
• Broad, cross-specialty appeal
• Defined scope (e.g. clear inclusion/exclusion logic, I/O)
• Market viability
• Encompass existing best practices & policies
• Scalability (broad availability for various clinicians)

Key Take-Aways
• Challenge – Reconcile differences in specialty objectives (OB v. EM)
• Solution:
  • Certain protocols should not have finite ends or conclusions
  • Use DMN to help build in a calculator for differential diagnoses
  • Cross-specialty functionality is possible

Next Steps
• Develop ‘patient is unstable’ arm of the protocol
• New protocols:
  • Alternative to Opioid in Low Back Pain (in development)
  • Diabetic Control

Call to Action
• Build more protocols
• Specific to established guidelines
• Choose areas with cross-specialty appeal
• Directly involve physicians in your specialty

BPMN
DMN

1st Trimester Bleeding Protocol

Differential Diagnosis Calculator

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