Administrative Data Sources

Dec 14, 2015

Decrease MPOG data contribution variation

- Current "required" data elements for MPOG sites
  - Intraoperative anesthesia record   "mini" preop
- Requirements approved by Executive Board (by Dec 2015)
  - Death data
    - Historically, used SSDMF
    - No longer possible with new Dept of Commerce rules
  - Two options: state death indices vs local data
  - Local data
    - In-hospital (or out) mortality
    - Easy data stream: 1) patient ID 2) DOD 3) data source

Data contribution

- Requirements approved by Executive Board (by Dec 2015)
- Administrative schemas
  - Pro fee "per case": used for case categorization, case inclusion/exclusion
  - Discharge ICD9 "per visit": much more standardized, need your political capital
- Exclusions
  - International contributors: Must use some case-categorization lexicon

- Impact: No PCRC proposal unless submitting these data types

Professional Fee Data

- Goal
  - What case was done? CABG versus fem-pop bypass
  - Research and QI (case inclusion / exclusion)
- Options
  - Text searching of actual procedure text: Laborious
    - May not reflect what actually happened (does that data get back into the AIMS/perioperative EHR?)
  - Hospital specific case codes (DPC)
  - Billed CPT / ICD9 procedure code

Professional fee data

- What are the limitations
  - Only one anesthesia base code per procedure
  - Highest complexity/base fee is typically used
  - For complex/multiple service cases, may misrepresent reality
  - It doesn't have risk adjustment or outcome data (unless the outcome is a re-operation)
- What is the process?
  - Contact your practice billing company
  - They need to create a data extract that sits on your local MPOG server
  - We have scripts to turn it into MPOG data
  - Every month…

What does it look like?
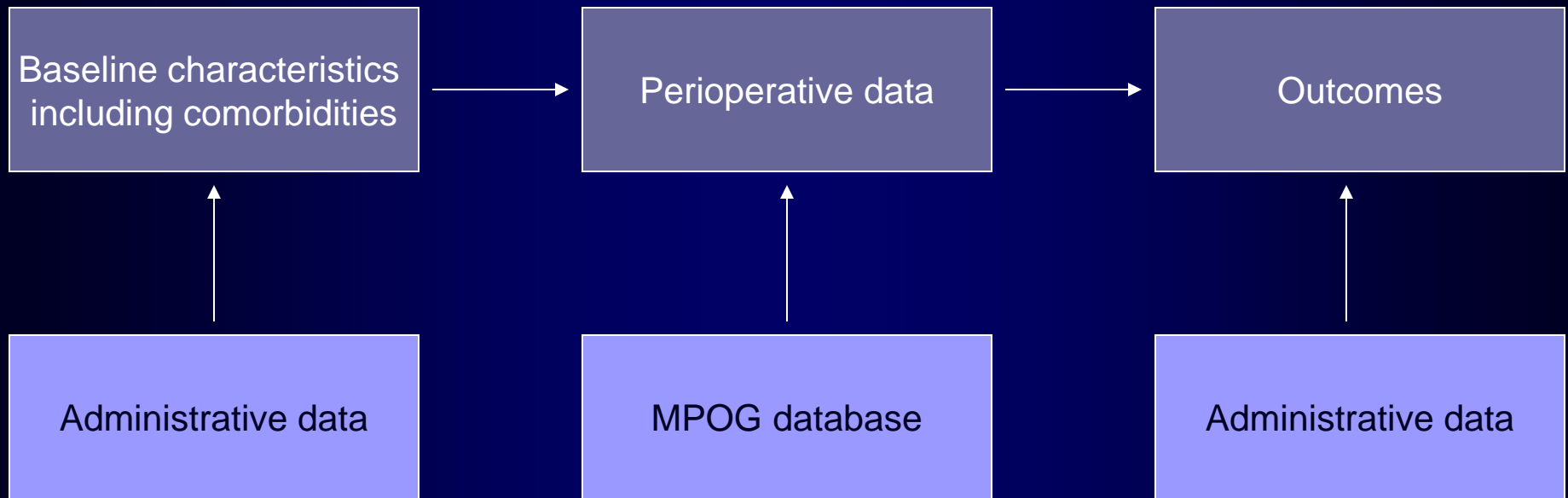
What does it look like?

Pro fee summary

- Necessary for case categorization

- Politically, should be very easy

- Technically, not bad either

- Does require a process to maintain the interface
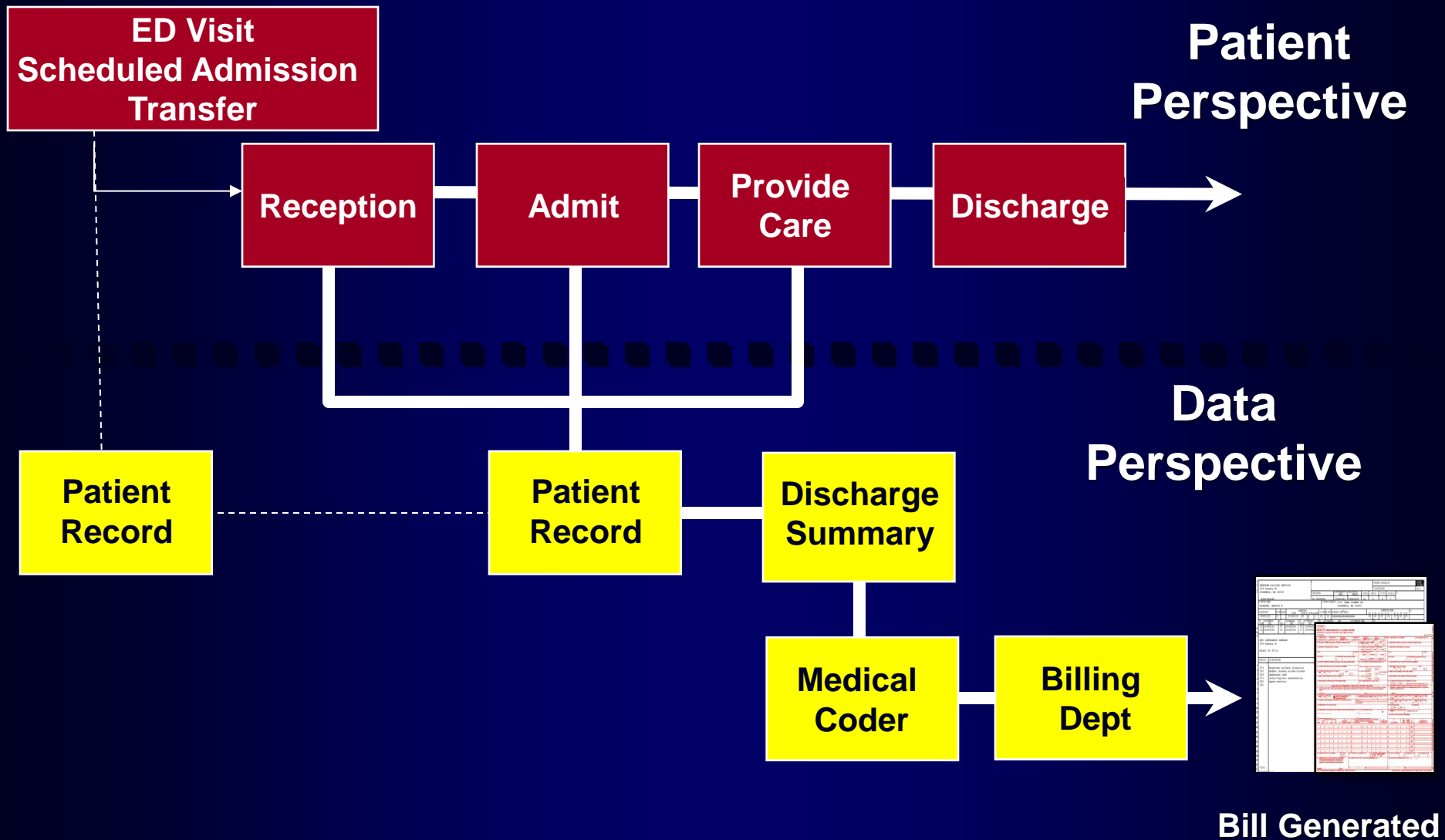
"Discharge" diagnoses

- Data from your hospital / surgery center regarding the patient and procedure

- Used to receive facility fee compensation

- Applies to outpatient and inpatient surgeries

- What is it used for?

Administrative data use and MPOG

From Bateman (ASA presentation 2012)

Generation of administrative data

ED Visit
Scheduled Admission
Transfer

Reception — Admit — Provide Care — Discharge

Patient Perspective

Patient Record

Patient Record — Discharge Summary

Data Perspective

Medical Coder — Billing Dept

Bill Generated

From AHRQ & Bateman

Generation of administrative data

UB-04 or CMS 1500 Billing Forms

Diagnoses & procedures (ICD-9-CM, DRG)

Patient demographics (age, sex, race/ethnicity)

Expected payer

Length of stay

Patient disposition

Admission source & type

Admission month

From AHRQ & Bateman

What does it look like?

- Global_Patient_ID (varchar(200), null)
- Patient_ID (varchar(200), null)
- Visit_ID (varchar(200), null)
- Operation_ID (varchar(200), null)
- Invoice_Number (varchar(200), null)
- Procedure_Code_ID (varchar(200), null)
- Procedure_Code (varchar(20), null)
- Diagnosis_Code_ID (varchar(200), null)
- Diagnosis_Source_Type (varchar(200), null)
- Date_of_Service_Start (datetime, null)
- Date_of_Service_End (datetime, null)
- Date_of_Admission (datetime, null)
- Date_of_Discharge (datetime, null)
- Date_of_Diagnosis_Start (datetime, null)
- Date_of_Diagnosis_End (datetime, null)
- Diagnosis_Code (varchar(20), null)
- Diagnosis_Lexicon (varchar(200), null)
- Diagnosis_Code_Priority (int, null)
- Was_Primary_Diagnosis (bit, null)
- Present_On_Admission (bit, null)

What is it used for?

- Risk adjustment
  - Easy, quick
  - Limitations of billing data
- Outcome ascertainment
  - Using ICD
  - Using length of stay
  - Using discharge disposition
- Case identification
  - Using procedure ICD9

The process

- Work with hospital folks
  - Data warehouse (operational or research)
  - Get ALL discharge ICD9 records for operative patients
    - NOT just operative cases
  - We want readmissions, pre-admissions, etc
- Staging table in local MPOG database
- Our scripts will do the rest
- Monthly
- Maybe EPIC can help

The process

MPOG SQL

Raw data source (practice or data warehouse)	→	MPOG staging table	→	AIMS_BillingXXX

Site Work