The Use of MHCC Data to Support Monitoring of the *New* Medicare Waiver

A Presentation before the HSCRC Data and Infrastructure Workgroup

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Presentation Overview

- MHCC Data Structures
- Discussion of the MCDB
  - Description
  - File details pertinent to Waiver measures
    - Claims
    - Patient information
  - Monitoring measures to be constructed using the MCDB
- Maryland Hospital Performance Evaluation Guide
- Maryland Quality Measures Data Center
  - Background and Purpose
  - Hospital Quality and Performance Data Sets

Maryland Medical Care Data Base (MCDB)

- Data base of privately insured claims created by Maryland Legislature
  - in 1993 (professional services)
  - Authority expanded in
    - 1999: Rx claims & 2007: institutional claims, eligibility information, health plan descriptions (in development)
    - 2014: PBMs, TPAs, QHPs must submit; report on non-FFS payments to providers (in development); and submissions become quarterly, based on claim paid date
- Data universe of privately insured information
  - Carriers, PBMs, TPAs licensed in Maryland with ≥ 1,000 covered lives
  - Enrollees residing in Maryland (or covered under Maryland contracts)
    - Approximately 90% of privately insured MD residents included
    - About half of privately insured are in self-funded employer plans, which typically carve-out Rx and sometimes behavioral health from medical care plan

MCDB File Details - Claims

- Components
  - Professional services; institutional services (one record per visit or stay as summarized by carrier); prescription drugs
- Contents
  - Covered services only
  - Financial fields: allowed amount, carrier payment, expected patient payment (copayment, deductible, other) ; out-of-network flag
  - National Provider Identifiers (NPIs) identify the organization and the individual professional that rendered the service; specialty is defined by the provider's taxonomy code
- Limitations typically associated with claims payment systems
  - Time gap between date service is rendered and date the claim is finalized
  - NPI of the professional who rendered the service may be omitted
  - Location zip code is for the address where payment is sent
  - Test results not included on the claims

MCDB File Details – Patient Information

- Enrollment/disenrollment dates and plan information
  - Source of coverage: small employer, individual market, etc.
- Encrypted unique patient identifiers (3)
  - Specific to carrier/plan enrollment
  - MHCC's Universally Unique Identifier (UUID) based on SSN
  - CRISP's Master Patient Index from some submitters in 2014
- Patient protections: no names; birth day omitted; location identified only by zip code
- Information added by MHCC
  - Normalized versions of variables to resolve inconsistent information
  - Expenditure risk scores for enrollees with a year of enrollment
    - Chronic Illness & Disability Payment System (CDPS)

Monitoring Measures from the MCDB

The measures below could be calculated for privately insured patients using the MCDB

- Subject to the inclusion/exclusion rules for defining the numerator & denominator and the information needed to define the rules

- Patient experience of care
  - ✓ Rate of physician follow-up after discharge
- Hospital cost & use measures
  - ✓ Medical imaging efficiency in hospitals (outpatients): 6 percentages.
  - ✓ Per capita hospital (inpatient and outpatient) expenditure growth
    - Denominator only: enrollment files OR survey (ACS)
  - ✓ Per capita health care expenditure growth
    - Numerator from summing relevant financial fields on claims data, and information on non-claims-based payments to providers from private payors
    - Denominator from enrollment files and denominator

Annual Utilization Measures, 2012

	Source of Coverage			
	Private Employers (non-CSHBP)	Small Group	Individual	MHIP
Enrollees				
Total no. full-year enrollees	332,781	271,086	139,847	16,405
Percent of FY enrollees with a CDHP plan	**12%**	**44%**	28%	26%
Spending				
Mean spending, all services	$3,011	$3,470	$2,185	**$10,015**
Median spending, all services	$795	$929	$505	**$3,327**
Percent paid out-of-pocket	15%	21%	**32%**	17%
Mean OOP ($)	$436	$734	$702	**$1,732**
Median OOP ($)	$126	$315	$239	**$1,202**
Percent with use				
Inpatient facility	4%	4%	3%	**8%**
Outpatient facility	21%	24%	20%	**37%**
Professional Services	83%	85%	79%	**94%**
Labs/Imaging	70%	70%	65%	**85%**
Prescription drugs	68%	72%	**39%**	**89%**
Median Expenditure Risk score	0.24	0.24	0.19	**1.18**

Hospital Performance Evaluation Guide

Hospital Performance Evaluation System

A data collection and management system established for:

- Monitoring and publicly reporting on hospital performance and quality
- Supporting the all-payer hospital rate setting system and the HSCRC Quality Based Reimbursement Initiative
- Aligning with CMS hospital quality programs to demonstrate Maryland's ability to meet or exceed federal requirements

The Hospital Performance Evaluation System

- A web-based tool for hospitals to report and preview quality measures and patient experience data collected for public reporting and the HSRCR Quality Based Reimbursement Initiative
- A mechanism to assess and improve data integrity through onsite chart validation and data quality review
- An efficient and centralized vehicle for communication with the Maryland hospital industry on quality initiatives

Hospital Guide (2002)

National Healthcare Safety Network Surveillance System (2008)

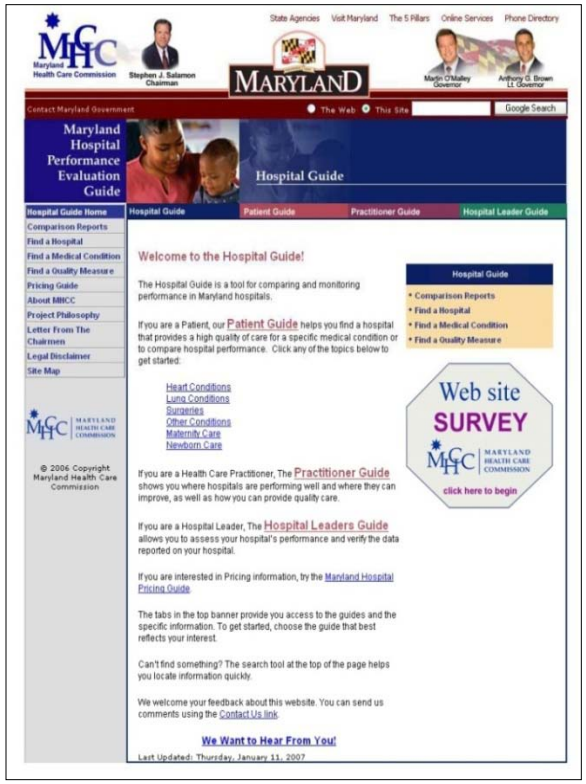
Quality Measures Data Center (2009)

Cardiac Data Registry Data (2010)

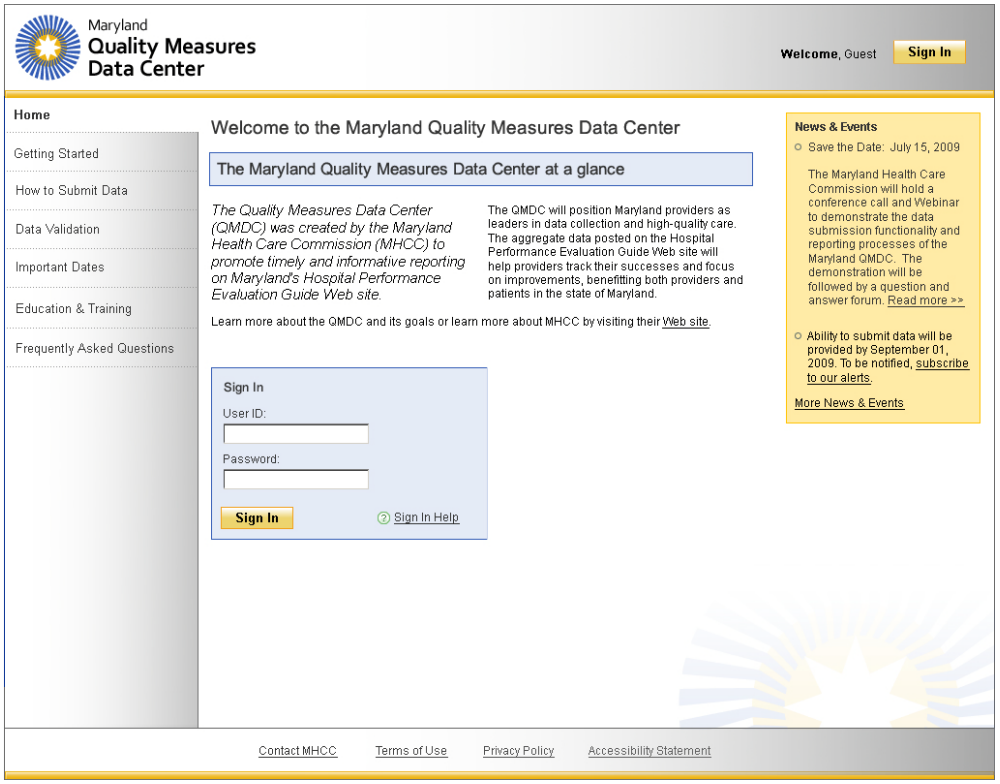
MHCC/HSCRC Expanded Data Collection Policy Initiative (2013/2014)

The Current System

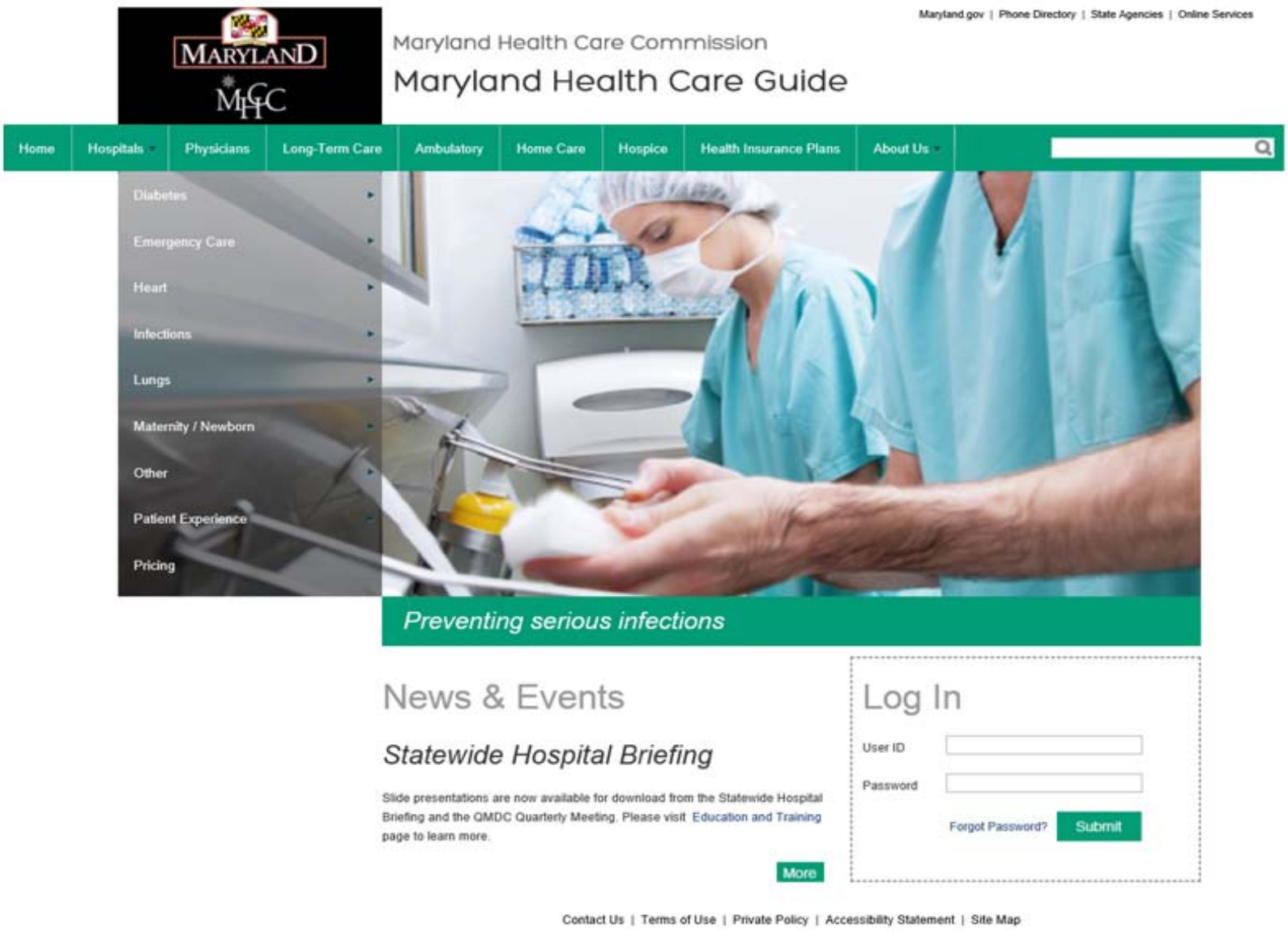
Hospital Guide (2002)



Quality Measures Data Center (2009)



The New System (Under Development)



Hospital Quality & Performance Data

- Process of Care Measures (CMS Core Measures)
- 30-day Readmission; 30-day mortality
- Common Medical Conditions/Maternity & Newborn
- Patient Experience Measures
- Healthcare Associated Infections Initiative
  - Healthcare Worker Influenza Vaccination
  - Surgical Site Infections- Hip, Knee, CABG, Colon, Abd Hysterectomy
  - Central Line Associated Bloodstream Infections in ICUs
  - CAUTI in ICUs, C.*difficile*, MRSA bacteremia
- NCDR Cardiac Data Registry Data
- *Data Validation*

Questions?

http://mhcc.dhmh.maryland.gov/Pages/consumerinfo.aspx