

# **ED LOS Subgroup Meeting**

April 26, 2024

**HSCRC Quality Team** 

## Subgroup 2 Members

First and Last Name	Title and Organization
Gai Cole/Alia Khan backup	Johns Hopkins Health System
Dr.Peter Hill	Senior Vice President of Medical Affairs at John Hopkins
Alex Yazaji, MD	Chief Medical Officer Medstar Union Memorial and Good Samaritan Hospitals
Brenda Watson	Advanta Government Services
Brian sims	Vice President, Quality & Equity
Carrie Adams	COO Meritus Medical Center
James B. Sherwood	VP, Business Development, ED, and Pediatrics
John Moxley	Senior Director- Department of Medicine, Luminis Health
Katia Falsat/Batas MaNail haalus	VD Deirekussesset and Otestoria Apolitica
Katie Eckert/Patsy McNeil backup	VP Reimbursement and Strategic Analytics
Kristen Geissler	Managing Director, BRG
Christina Martin	UPMC Western Maryland
Dr. Mark Goldstein	Medical doctor - Sinai Hospital
Michele Patchett	Director of Performance Improvement and Innovation Greater Baltimore Medical center
Michael Sokolow	UMMS Sr Director, Quality Business Intelligence
Dr. Revathi Jyothindran	Medical doctor - Northwest Hospital
Taneisha Laume	CRISP Representative
Eileen MacDonald, MD	Chief of Medicine, Physician Advisor, Luminis Health
Zahid Butt	CEO, Medisolv

Thank you to the industry and stakeholders for contributing your interest, time, and expertise to this work.

Workgroup information can be found on the HSCRC website:

https://hscrc.maryland.gov/Pages/E D-length-of-stay-workgroup.aspx



## Workgroup Learning Agreements

- **Be Present** Make a conscious effort to know who is in the room, become an active listener. Refrain from multitasking and checking emails during meetings.
- Call Each Other In As We Call Each Other Out When challenging ideas or perspectives give feedback respectfully. When being challenged - listen, acknowledge the issue, and respond respectfully.
- Recognize the Difference of Intent vs Impact Be accountable for our words and actions.
- Create Space for Multiple Truths Seek understanding of differences in opinion and respect diverse perspectives.
- **Notice Power Dynamics** Be aware of how you may unconsciously be using your power and privilege.
- Center Learning and Growth At times, the work will be uncomfortable and challenging. Mistakes and misunderstanding will occur as we work towards a common solution. We are here to learn and grow from each other both individually and collectively.

#### **REMINDER:**

These workgroup meetings are recorded.

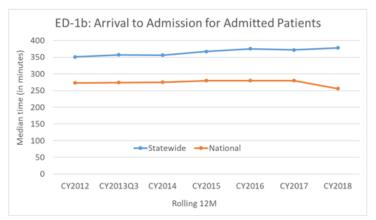


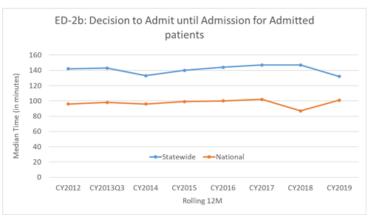
## Agenda

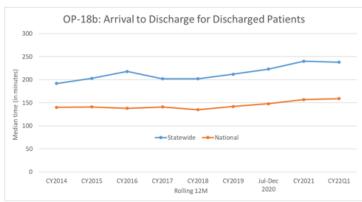
- ✓ Overview ED initiatives and QBR ED-1 Data collection and incentive development
- ✓ Review Data Subgroup 1: Accomplishments and Timeline
- ✓ Define goals of Measure and Incentive Methodology Subgroup 2
- ✓ Next Steps and Opportunities



# CMS ED LOS Data: Maryland performs worse than nation



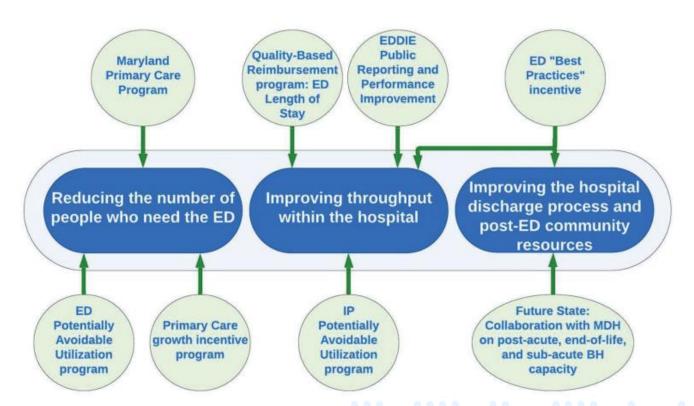




Measure ID	Measure Definition	
ED-1	Median time from ED arrival to departure for admitted patients	
ED-2	Median admit decision time to ED departure time for admitted patients	
OP-18	Median time of ED arrival to departure for discharged patients	



## Interventions to Impact ED LOS







# Tonya Johnson

Caregiver

Age Location 44 yrs old Silver Spring, MD

## Biography

• Caregiver to 85-year-old mother

Tonya is a devoted daughter to her 85-year-old mother who recently became ill with an abscess. Following a telehealth visit with a PCP, the doctor urgently recommended a CT scan, identifying symptoms of diverticulitis. Tonya begged the PCP for other options, but he insisted they go to the ED for the CT scan. Tonya accompanied her mother to a suburban hospital in Maryland and had a distressing experience. Her mother was triaged right away. She waited 3 hours to see a PA, 6 hours for the CT scan, 8 hours to receive an antibiotic (in the waiting room), and sent home after 9 hours.

#### **K**Goals

- •Get quality care for her mother, including timely diagnoses & proper treatment
- Advocates for efficient processes (e.g., minimize wait time, prioritize urgent medical needs), respect and privacy, even in busy emergency departments
- Balance caring for her mother and her own family

#### **Patterns & Behaviors**

- Fierce advocate for her mother's health, persistently asking questions and challenging the system when necessary
- Researches medical conditions, treatment options, and hospital practices
- Often neglects her own well-being, struggling to find time to care for her family, rest, exercise or her personal needs

#### **⊗** Frustrations

- Numerous assessments performed & treatments delivered in the waiting room
- A private room was never provided until the last 10 minutes prior to the PA providing discharge instructions
- •Hospital said every bed was full inside
- •Mix of frustration, concern, and helplessness
- •Fears she missed critical signs & symptoms

#### **Health System Knowledge**

- Worked in the healthcare industry for 20 years
- Readily knows how to navigate insurance, appointment scheduling, and medical paperwork
- Became an advocate for systemic change, sharing her story, participating in patient forums, and supporting initiatives to improve healthcare delivery



# Carmen Johnson

#### Patient

**Age** 85 yrs old **Location** Fulton, MD

## Biography

• 85-year-old Senior – lives alone

Carmen has lived in Fulton, MD for the last 12 years. She now lives alone after her husband of 40 years passed away last year. She is moderately active, attends church and enjoys spending time with family and friends. She has experienced abdominal pain in her left side for 3- 4 days along with slight fever and nausea. She is scared to tell her daughter when things are wrong. Her daughter scheduled a doctor's appointment. Carmen takes several medications for high blood pressure and glaucoma and hates going to the doctor.

#### **K**Goals

- •Find relief for her symptoms
- Hopes the ED visit will provide answers and alleviate her pain & discomfort
- ■Maintain her independence
- Rely on her daughter's judgment & guidance
- Maximize her quality of life

#### **Patterns and Behaviors**

- Downplays her pain and waits to tell her daughter something is wrong
- Contemplates mortality and frequently worries about her independence
- •Very engaged with family, friends, neighbors, and church

#### **⊗Frustrations**

- Long wait times at the ED makes her anxious
- •Feels exposed and vulnerable while being assessed and treated openly in the waiting room
- Worries her health issues inconvenience her daughter, feels like a burden
- •Fears her symptoms are overlooked or misdiagnosed

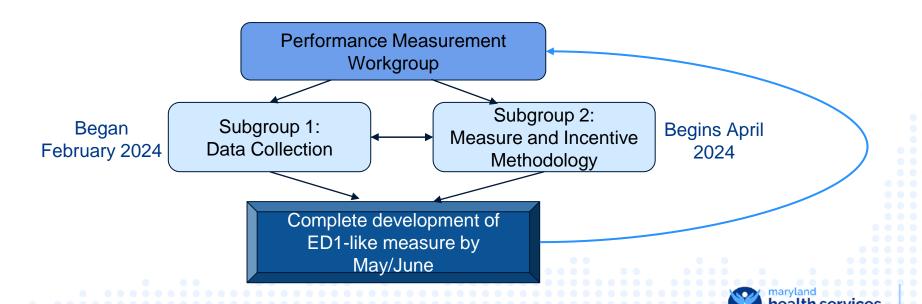
#### **Health System Knowledge**

- Moderate use of technology / social media for seeking information about healthcare services
- Some knowledge navigating the healthcare system; however, relies on adult children for insurance, appointment scheduling, and medical paperwork
- Responsible with medical appointments

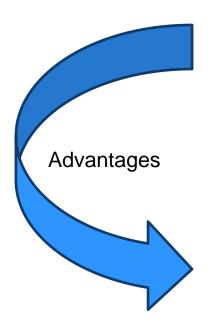
## Quality Based Reporting (QBR): ED LOS Measure Development Plan

#### Objective:

- Subgroup 1: Develop mechanism to collect ED length of stay for admitted patients
- Subgroup 2: Develop ED LOS measure and incentive methodology for RY 2026 QBR



#### Case-mix data as chose



- 1. Add date and timestamps and other needed variables to monthly HSCRC case-mix data
- 2. Allow hospitals to calculate summary measures and submit to HSCRC (similar to EDDIE reporting)
- 3. Use retired ED1 electronic clinical quality measure/Adapt ED2 eCQM to capture time of admission and observation stays
- Takes advantage of existing data collection method and edit check processes
- HSCRC calculates measure for all hospitals
- Additional time stamps can be collected (i.e., start of observation)
- Can stratify or risk-adjust ED LOS data



## What Are We Trying To Accomplish In Today's Meeting?

- Overview of Data Subgroup 1
  - Measure specifications
  - Timelines
- Goals for Measure and Incentive Subgroup 2
  - Which ED1 measure strata should be used for payment?
  - Should incentive be for improvement only? Or improvement and attainment?
  - What performance standards will we used? (i.e., threshold/benchmarks)
  - Should measure be risk-adjusted? What additional data is needed for risk adjustment?
  - Other decisions: Minimum cell sizes? Missing data?
- Next Steps



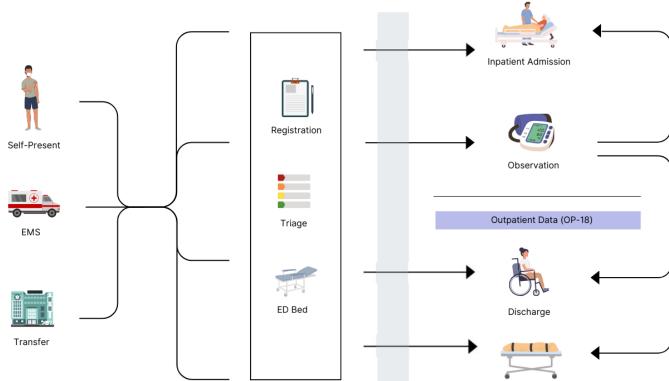


HH:MM or UTD
MM-DD-YYYY or UTD

\*Departure = time / date the patient physically leaves the ED

HH:MM or UTD MM-DD-YYYY or UTD

Death



Patient initially placed in Observation then moved to Inpatient Admission

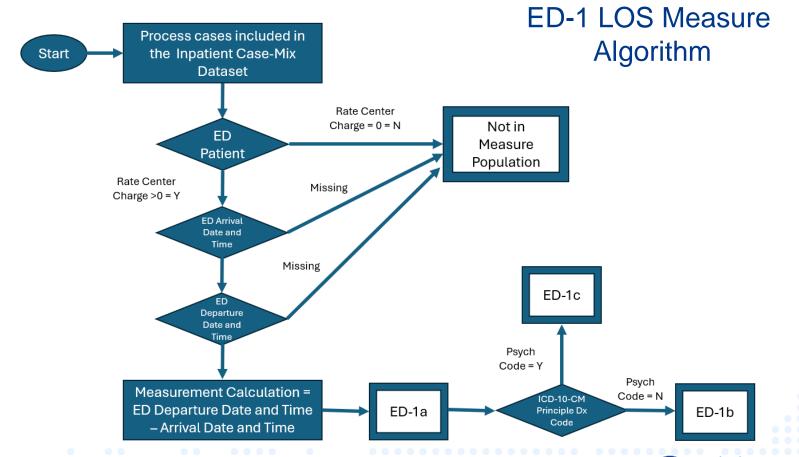
## **ED1 LOS Measure Description**

Measure Name:	HSCRC ED1 Length of Stay (LOS) measure
Description	Median time from emergency department arrival to time of departure from the emergency room for patients admitted to the facility from the emergency department or observation
Population	All ED patients who are admitted to Inpatient bed and discharged from hospital during reporting period
Exclusions	Patients who are discharged from ED or OBS to community/transfers, Deaths (in OP-18)

#### Specifications for Joint Commission on ED Departure Date/Time and Observation:

- For patients who are placed into observation outside the services of the emergency department, abstract the date of departure from the emergency department.
- For patients who are placed into observation under the services of the emergency department, abstract the date of departure from the observation services (e.g., patient is seen in the ED and admitted to an observation unit of the ED on 01-01-20xx then is discharged from the observation unit on 01-03-20xx abstract 01-03-20xx as the departure date).







# Ad-Hoc Data Submission Requirements (DSR)

Data Elements	Description	Rationale	Inpatient/Outpatient	
Medicare Provider #	Hospital Medicare ID			
Medical Record Number	Patient's medical record number assigned by hospital			
Patient Account Number	Patient admission number	Required for matching	Both Datasets	
From Date of Service	First day of patient encounter or visit			
Thru Date of Service	Date of patient discharge			
ED Arrival Date	Date patient arrived at ED (i.e., sign-in, pre-registration)			
ED Arrival Time	Time patient arrived at ED (HHMM in military time)			
ED Departure Date  Date patient departed ED (i.e., physically left the ED)		New Variables for ED-1	Both Datasets	
ED Departure Time	Time patient departed ED (HHMM in military time)			
	Additional Variables			
Observation Status Date	EHR timestamp for when patient enters observation status; could be in or outside of the ED	To be able to examine impact of observation	Doth Detocate	
Observation Status Time	EHR timestamp for when patient enters observation status; could be in or outside of the ED	status on ED length of stay/boarding	Both Datasets	
IP Unit Arrival Date Date patient arrived at IP unit (HHMM in military time)		To be able to ensure we have data on total wait	Inpatient Only	
IP Unit Arrival Time	Time patient arrived IP unit ED (i.e., physical arrive at unit)	time if needed	працепт Опту	

# Data Submission and Reporting Timeline

Tasks	Key Dates
Finalize ED-1 LOS & OP-18 Measure specifications and algorithm	May 2024
1st Adhoc submission window opens: Submit CY23 & Jan-Mar 2024 (15 months data)	July 2024
Release summary level statewide report on ED-1 and OP-18 median length of stay	September/October 2024
2nd Adhoc submission window opens: Submit Apr-Sept 2024 (6 months data)	December 2024
Starting in Jan 2025 regular case-mix submissions will include ED-1 LOS and OP-18 variables	January 2025
Final data submission (Oct-Dec 24) will use regular case-mix DSR that includes ED-1 LOS & OP-18 variables	March 2025
Release summary level statewide report on ED-1 & OP- 18 median length of stay	April/May 2025
Final RY26 QBR Revenue Adjustments (ED-1 LOS Only)	January 2026 (preliminary July 2025)

Between 1st and 2nd adhoc submissions, check data quality:

- Data error checks
- Match ad hoc data with Case-Mix data; provide match rate.
- 3. Revise DSR, if needed
- Request statewide or hospital specific resubmissions



# **Data Quality Checks**

Data Items							Data Quality			
									Cross Edit	Quality Threshold
Data			HSCRC	Data	Max		Required	Edit Check Level (Warning/Error/Fatal Error/Cross	Error	10%: Monthly
Item	Data Item Name	Description	Variable	Type	Length	Format	Field	Edit Error) FY22	Variable	5%: Quarterly
1	Medicare Provider Number	Enter the Medicare provider number assigned to the hospital.	HOSPID	NUM	6	See	Yes	Fatal error: If value is missing or invalid (alpha or special characters)	N/A	100% Complete
		NNNNNN = MEDICARE PROVIDER NUMBER (SEE "Provider ID" TAB FOR CODES)				"Provider ID"	l .			
2	Medical Record Number	Enter the unique medical record number assigned by the hospital for the patient's	MRNUM	CHAR		No alpha or	Yes	Fatal error: If value is missing or invalid (alpha or special characters)	N/A	100% Complete
		medical record. The unique medical record number is to be assigned permanently to				special	l .			
		the patient and may not change regardless of the number of admissions for that			11	characters.	l .			
		particular patient during the patient's lifetime. LEADING ZEROES/SPACES ARE NOT			11		l .			
		REQUIRED.					l .			
		NNNNNNNNN = PATIENT'S MEDICAL RECORD NUMBER								
3	Patient Account Number	Enter the unique number assigned by the hospital for this patient's admission. For	PATACCT	CHAR	18	No alpha or		Fatal Error: If value is missing, invalid (alpha or special characters), all	N/A	100% Complete
		Commission reporting requirements, this number is related to a single admission,				special	l .	9's or all 0's		
		and will change with each encounter or visit reported. LEADING ZEROES/SPACES				characters.	l .			
		ARE NOT REQUIRED.					l .			
		NNNNNNNNNNNNNNNNN = PATIENT ACCOUNT NUMBER								
4	From Date of Service	Enter the month, day, and year for the first day of the specific patient encounter or	FR_DATE	DATE		No alpha or		Fatal error: If value is missing or invalid (alpha or special characters)		100% Complete
		visit. For example, for April 2, 2007, enter 04022007 (mmddyyyy). The From Date			8	special	l .	Fatal error: If value is after Thru Date	Service	
-		must be before the Through Date.				characters.	l .			
_	Thru Date of Service	MMDDYYYY = MONTH,DAY,YEAR					l			100% Complete
5	Inru Date of Service	Enter the month, day, and year for the last day covering the specific patient	TH_DATE	DATE		No alpha or		Fatal error: If value is missing or invalid (alpha or special characters)	N/A	100% Complete
		encounter, visit or the date of discharge. For example, for April 3, 2007, enter				special	l .	Fatal Error: If value reported is outside of reporting period		
		04032007 (mmddyyyy). The Through Date must be <u>after</u> the From Date and be in the current reporting period.			•	characters.	l .			
		MMDDYYYY = MONTH,DAY,YEAR					l .			
6	ED Arrival Date	Enter the month, day, and year for the specific patient ED arrivale date. For example,	ED ADDIVAL DATE	DATE		No alpha or	Yes	Fatal error: If value is missing or invalid (alpha or special characters)	N/A	100% Complete
"	LD Airival Date	for April 2, 2023, enter 04022023 (mmddyvyy).	LD_ARRIVAL_DATE	DAIL	9	special		or not valid date	14/6	100% Complete
		MMDDYYYY = MONTH,DAY,YEAR			_	characters.		Fatal Error: If value reported is after Departure date		
7	ED Departure Date	Enter the month, day, and year for the specific patient ED Departure date. For	ED DEPART DATE	DATE		No alpha or	-	Fatal error: If value is missing or invalid (alpha or special characters)	N/A	100% Complete
'		example, for April 2, 2023, enter 04022023 (mmddyyyy).			10	special		or not valid date	.,,,,	
		MMDDYYYY = MONTH,DAY,YEAR				characters.	l .			
8	ED Arrival Time	Enter the hour and minute for the ED arrival date. For Example, for 02:30 PM, enter	ED ARRIVAL TIME	NUM		No alpha or	Yes	Fatal error: If value is missing or invalid (not valid time)	N/A	100% Complete
		1430 (hhmm).			4	special				
		HHMM= HOUR, MINUTE				characters.				
9	ED Departure Time	Enter the hour and minute for the ED departure date. For Example, for 02:30 PM,	ED_DEPART_TIME	NUM		No alpha or	Yes	Fatal error: If value is missing or invalid (not valid time)	N/A	100% Complete
		enter 1430 (hhmm).			4	special				
		HHMM= HOUR, MINUTE				characters.				



## Subgroup 2: QBR Measure and Incentive Structure

- RY26 QBR recommendation:
  - Within Person and Community Engagement Domain, add ED wait time measure weighted at 10 percent.
- Decisions still to be made for CY 2024 performance:
  - Which ED1 measure strata should be used for payment?
  - Should incentive be for improvement only? Or improvement and attainment?
  - What performance standards will we used? Threshold/benchmarks?
  - Should measure be risk-adjusted? What additional data is needed for risk adjustment?
  - Minimum cell sizes? Missing data?

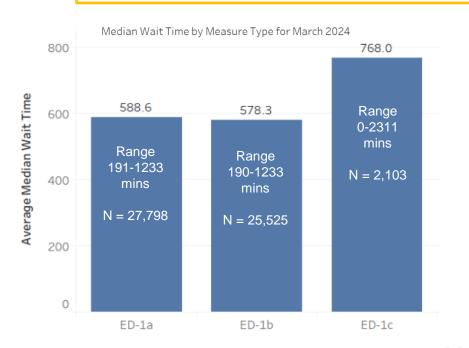


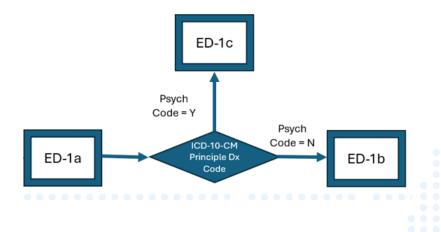
## Which ED1 measure strata should be used for payment?

ED1a = All patients

ED1b = Non-psych

ED1c = Psych





Strata A = B + C



## **Current QBR Methodology**

#### **Performance Measures**

# Standardized Measure Scores

Hospital QBR Score & Revenue Adjustments

#### Measures by Domain: Person and Community Engagement—

PROPOSED 11 Measures:

- -8 HCAHPS categories;
- -TFU Medicare and Medicaid and

PROPOSED disparity gap;

-PROPOSED ED LOS

#### Safety - 6 Measures:

- -5 CDC NHSN HAI Categories;
- -All-payer PSI 90

#### Clinical Care-

- -- Mortality inpatient, PROPOSED 30-day;
- --THA/TKA Complication

PROPOSED DOMAIN WEIGHTS

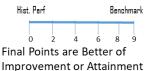


Individual Measures are Converted to 0-10 Points:

Points for Attainment Compare Performance to a National Threshold (median) and Benchmark (top 5%)

Threshold			Benchn		
0	2	4	6	8	10

Points for Improvement Compare Performance to Base (historical perf) and Benchmark



Hospital QBR Score is Sum of Earned Points / Possible Points with Domain Weights Applied

Scale Ranges from 0-80%

Max Penalty 2% & Reward +2%

Abbreviated Pre- Set Scale	QBR Score	Financial Adjustment
Max Penalty	0%	-2.00%
	10%	-1.51%
	20%	-1.02%
	30%	-0.54%
Penalty/Reward		
Cutpoint	41%	0.00%
	50%	0.46%
	60%	0.97%
	70%	1.49%
Max Reward	80%+	2.00%

QBR scoring requires all measures to be converted to a 0 – 10 scale.

Need to determine how to do this for ED1 measure.



#### **ED-1** Incentive

- Should incentive be for improvement only? Or improvement and attainment?
- What performance standards should be used?

#### <u>Improvement</u>

Emphasizes need for all hospitals in Maryland to improve

Controls for hospital patient mix if changes over time are minimal

Controls for potential measure differences across hospitals/systems

#### **Attainment**

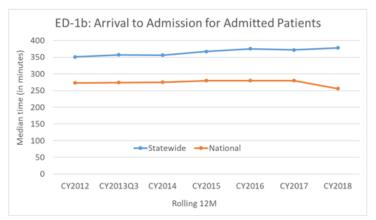
Recognizes hospitals with "good" wait times/LOS

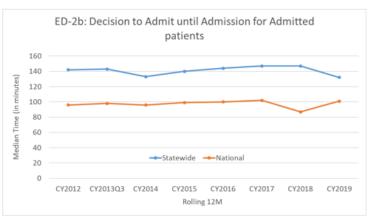
Requires threshold and benchmark for best performance to be established

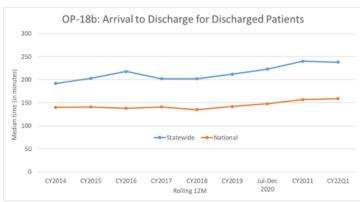
Case-mix adjustment and measurement consistency are much more critical for fair comparison



# CMS ED LOS Data: Maryland performs worse than nation







Measure ID	Measure Definition
ED-1	Median time from ED arrival to departure for admitted patients
ED-2	Median admit decision time to ED departure time for admitted patients
OP-18	Median time of ED arrival to departure for discharged patients



#### **ED-1** Risk-Adjustment Considerations

- Should measure be risk-adjusted? What additional data is needed for risk adjustment?
  - Hospitals have advocated for risk adjustment for things such as occupancy rates and discharge to non-community settings
  - When measuring improvement, is risk-adjustment necessary?
  - Instead of risk-adjustment of measure, could there be adjustments to improvement targets?



#### **ED-1 Other Decisions**

- Missing data?
- Minimum cell sizes?
- Other thoughts not discussed?

## **Next Steps/Opportunities**

- Review meeting discussion
- Explore benchmarking options
- Continue research of risk-adjustment

Next Meeting of Subgroup 2: May 17, 2024

