

Society of Thoracic Surgeons

Adult Cardiac Surgery Database

November 4, 2020



STS National Database[™]
Trusted. Transformed. Real-Time.

Agenda

- Welcome and Introductions
- STS Updates and Important Dates
- Capturing Medicare Insurance
- Chronic Lung Disease Coding
- Aorta Devices
- IQVIA Update
- Q&A – Please submit using the Q&A function

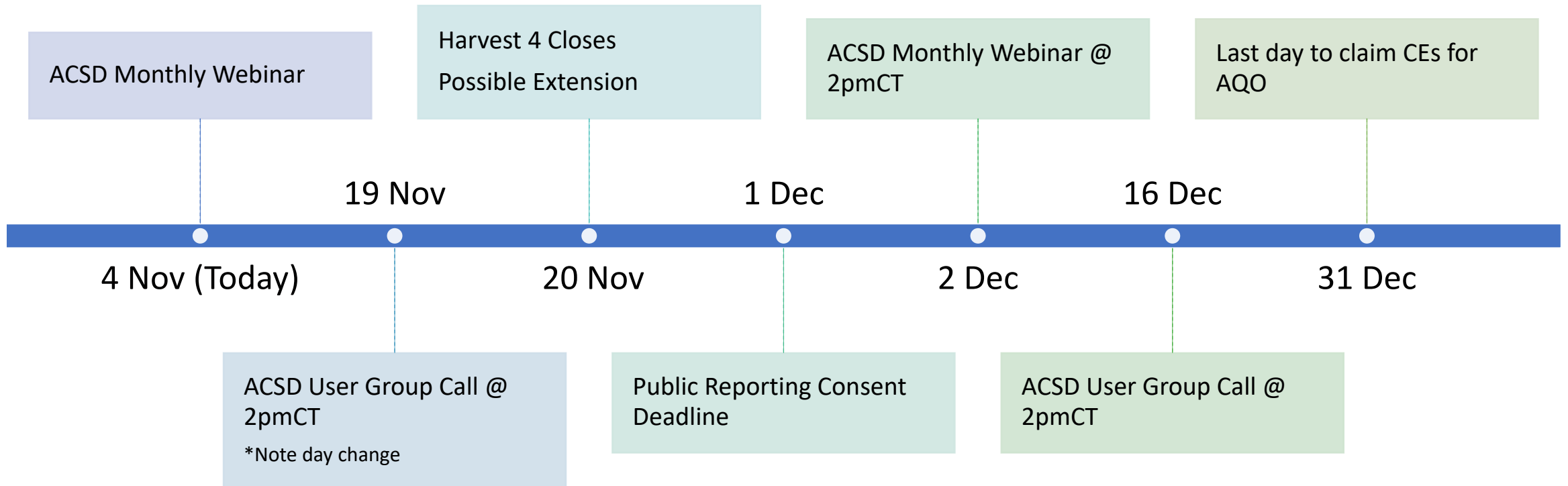


STS Updates



- **Public Reporting**
 - Next public reporting consent deadline is December 1
 - First quarter 2021
 - Will include 2020 Harvest 1 data (cases through December 31, 2019)
 - All 5 ACSD composite measures will be included
 - Iso CABG, Iso AVR, AVR+CABG, Iso MVRR, and MVRR+CABG
 - STS will send notification to sites in the coming weeks
 - Contact Sydney Clinton with questions – Sclinton@sts.org
- **Harvest Updates**
 - Harvest 1 2020 results updated last weekend
 - Harvest 3 2020 is in analysis
 - Harvest 4 2020 set to close on November 20
 - STS is discussing a possible extension
 - More information will be sent to sites next week
- **AQO Wrap Up**
 - All AQO Sessions will be available for an entire year
 - CE Credit must be claimed by December 31, 2020
 - Access to AQO will be available for purchase in late November via the STS Learning Center for those who did not attend

Important Dates for Adult Cardiac





Capturing Medicare Insurance

- Medicare
 - Plan A – Hospital Insurance
 - Inpatient Hospital Stays
 - SNF
 - Hospice
 - Some Home Health Care
 - Plan B – Medical Insurance (Fee For Service)
 - Doctor Services
 - Outpatient Care
 - Medical Supplies
 - Preventive Services
 - Plan C – Medicare Advantage
 - Commercial **Alternative** to Medicare Plans A & B
 - Patient forgoes Plan A and B and pays a Commercial Insurance provider for coverage
 - Plan D- Prescription Drug Coverage
 - Plan E – Medigap or **Supplemental** Insurance
 - Discontinue to new enrollees in 2010
 - **In addition to** Traditional Medicare
 - Plan F, G, N – Medigap or **Supplemental** Insurance
 - **In addition to** Traditional Medicare



Capturing Medicare Insurance

- Plan C – Medicare Advantage
 - Commercial **Alternative** to Medicare Plan A & B
 - Patient forgoes Plans A and B and pays a Commercial Insurance provider for coverage
 - If this is primary, then code
 - Commercially Managed Medicare Plan “Yes” and
 - Primary Payor Medicare Part B “No”
- Supplemental Plans
 - Plan E – Medigap or **Supplemental** Commercial Insurance
 - Discontinue to new enrollees in 2010
 - **In addition to** Traditional Medicare A & B
 - Plans F, G, N – Medigap or **Supplemental** Commercial Insurance
 - All **in addition to** Traditional Medicare A & B
 - For those with Primary Medicare then code
 - Commercially Managed Medicare as “No”
 - Primary Payor Medicare Part B as “Yes”
 - Code Secondary as either Commercial Health Insurance or HMO – which ever is appropriate
- Patients who are still working or in special situations may have a commercial or HMO insurance as primary, which is not a Medicare advantage plan, and may also have Medicare, which would be coded as a secondary
 - You need to look to make sure the commercial or HMO insurance is not a Medicare advantage plan



Medicare Primary with Commercial Supplement

Medicare did not cover.

MUTUAL OF OMAHA INSURANCE COMPANY USA Senior Care Network

INSURANCE IDENTIFICATION CARD

Coverage Number: [REDACTED]
Name: [REDACTED]
Coverage Type: **MEDICARE SUPPLEMENT PLAN G**
Please visit us at: www.mutualofomaha.com
Please Provide Coverage Number on all Correspondence

MEDICARE HEALTH INSURANCE

Name/Nombre [REDACTED]
Medicare Number/Número de Medicare [REDACTED]
Entitled to/Con derecho a **HOSPITAL (PART A) 01-01-2011**
MEDICAL (PART B) 01-01-2011

C. Hospitalization

Hospital Name: _____ (If Not Missing →) HospName (205)	Hospital ZIP Code: _____ HospZIP (210)	Hospital Region: _____ HospStat (215)
Hospital National Provider Identifier: _____ HospNPI (220)	Hospital CMS Certification Number: _____ HospCMSCert (221)	
Primary Payor: ** (Choose one) PayorPrim (291)	(If Primary Payor <>None/Self ↓) Secondary Payor: ** (Choose one) PayorSecond (298)	
<input type="checkbox"/> None/Self	<input type="checkbox"/> None/Self	
<input type="checkbox"/> Medicare (includes commercially managed options) (If Medicare →) Commercially Managed Medicare Plan ComMngMedPlnPrim (292) <input type="checkbox"/> Yes <input type="checkbox"/> No (If No ↓) HICN/MBI Known HICNMBIKnown (293) <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓) HICN/MBI: _____ HICNMBI (294) Primary Payor Medicare Part B: <input type="checkbox"/> Yes <input type="checkbox"/> No PrimMCareFFS (295)	<input type="checkbox"/> Medicare (includes commercially managed options) (If Medicare →) Commercially Managed Medicare Plan ComMngMedPlnSec (299) <input type="checkbox"/> Yes <input type="checkbox"/> No (If No ↓) HICN/MBI Known HICNMBIKnownSec (300) <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes ↓) HICN/MBI: _____ HICNMBINumberSec (301) Secondary Payor Medicare Part B: <input type="checkbox"/> Yes <input type="checkbox"/> No SecondMCareFFS (302)	
<input type="checkbox"/> Medicaid (includes commercially managed options)	<input type="checkbox"/> Medicaid (includes commercially managed options)	
<input type="checkbox"/> Commercial Health Insurance	<input type="checkbox"/> Commercial Health Insurance	
<input type="checkbox"/> Health Maintenance Organization	<input type="checkbox"/> Health Maintenance Organization	

MEDICARE HEALTH INSURANCE

Name/Nombre [REDACTED]
Entitled to/Con derecho a **HOSPITAL (PART A)**
MEDICAL (PART B)

AARP Medicare Supplement Plans
insured by **UnitedHealthcare Insurance Company**

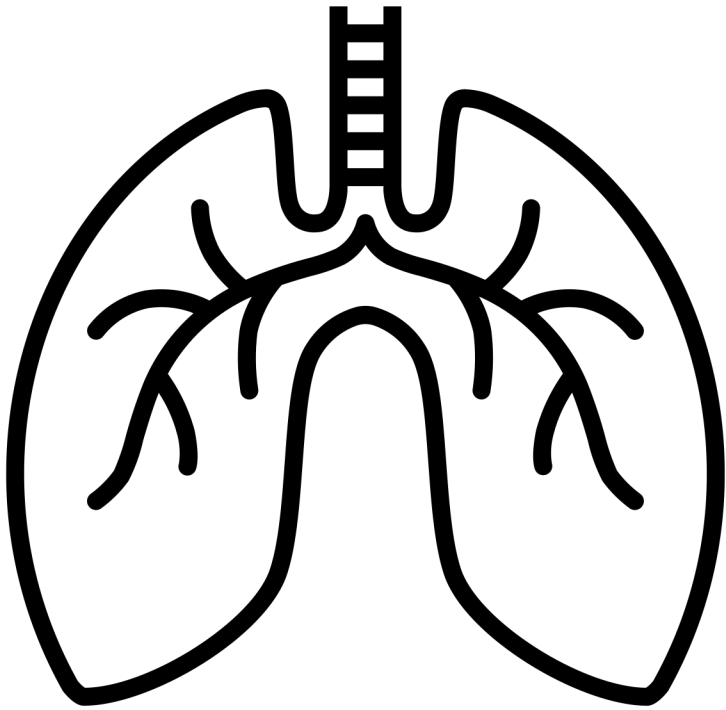
AARP MEDICARE SUPPLEMENT PLAN F



Medicare Advantage Commercially Managed Medicare Plan



C. Hospitalization			
Hospital Name: _____ (If Not Missing →)		Hospital ZIP Code: _____ Hospital Region: _____	
HospName (205)		HospZIP (210) HospStat (215)	
Hospital National Provider Identifier: _____		Hospital CMS Certification Number: _____	
HospNPI (220)		HospCMSCert (221)	
Primary Payor: ** (Choose one)		(If Primary Payor ⇌ None/Self ↓) Secondary Payor: ** (Choose one)	
PayorPrim (291)		PayorSecond (298)	
<input type="checkbox"/> None/Self		<input type="checkbox"/> None/Self	
<input type="checkbox"/> Medicare (includes commercially managed options)		<input type="checkbox"/> Medicare (includes commercially managed options)	
(If Medicare →)		(If Medicare →)	
Commercially Managed Medicare Plan		Commercially Managed Medicare Plan	
ComMngMedPlnPrim (292)		ComMngMedPlnSec (299)	
<input type="checkbox"/> Yes <input type="checkbox"/> No (If No ↓)		<input type="checkbox"/> Yes <input type="checkbox"/> No (If No ↓)	
HICN/MBI Known		HICN/MBI Known	
HICNMBIKnown (293)		HICNMBIKnownSec (300)	
<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
(If Yes ↓)		(If Yes ↓)	
HICN/MBI: _____		HICN/MBI: _____	
HICNMBI (294)		HICNMBI NumberSec (301)	
Primary Payor Medicare Part B: <input type="checkbox"/> Yes <input type="checkbox"/> No		Secondary Payor Medicare Part B: <input type="checkbox"/> Yes <input type="checkbox"/> No	
PrimMCareFFS (295)		SecondMCareFFS (302)	
<input type="checkbox"/> Medicaid (includes commercially managed options)		<input type="checkbox"/> Medicaid (includes commercially managed options)	
<input type="checkbox"/> Commercial Health Insurance		<input type="checkbox"/> Commercial Health Insurance	



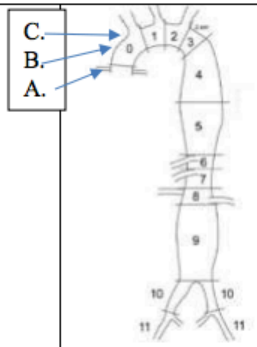
Chronic Lung Disease

- You may use DLCO or DLCO/VA to determine CLD
- Code the worse identified level of severity
 - DLCO/DLCO V/A
 - FEV1
 - ABG
- Starting with November 1 cases
- Refer to the Training Manual – will be posted by early next week

Aorta Devices

- Starting with November 1 cases, please enter in the Model Number
- This captures the size of the device
- Too many devices and too many sizes of a device to enter using harvest codes or size fields
- This is a free-text field
- Composite Grafts
 - Enter under **AVAVCompGraftImplAo**
 - Will open **ADEVLoc01**
 - If no other devices were inserted, then leave **ADEVLoc01** blank



Devices Device(s) Inserted: <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, list aorta proximal to distal using device key 1) ADevins (5440) Aortic Valve or Aortic Valve Composite Graft Implanted <input type="checkbox"/> Yes <input type="checkbox"/> No (If Yes 1) AVAVCompGraftImplAo (5441)																																								
23																																								
Implant Model Number: _____ AVAVCompGraftImplModelAo (5442) Implant Size: _____ AVAVCompGraftImplSizeAo (5443) Unique Device Identifier (UDI): _____ AVAVCompGraftImplUDIAo (5444)																																								
Aorta Devices Location : <table border="1" style="display: inline-table; vertical-align: top;"> <tr> <td>C.</td> <td>→</td> </tr> <tr> <td>B.</td> <td>→</td> </tr> <tr> <td>A.</td> <td>→</td> </tr> </table>  <table border="1" style="display: inline-table; vertical-align: top;"> <tr> <td>X.</td> <td>No additional devices inserted (only for locations 2 – 15)</td> </tr> <tr> <td>A.</td> <td>Below sinotubular junction</td> </tr> <tr> <td>B.</td> <td>Sinotubular junction to mid ascending</td> </tr> <tr> <td>C.</td> <td>Mid ascending to distal ascending</td> </tr> <tr> <td>D.</td> <td>Zone 1 (between innominate and left carotid)</td> </tr> <tr> <td>E.</td> <td>Zone 2 (between left carotid and left subclavian)</td> </tr> <tr> <td>F.</td> <td>Zone 3 (first 2 cm. distal to left subclavian)</td> </tr> <tr> <td>G.</td> <td>Zone 4 (end of zone 3 to mid descending aorta ~ T6)</td> </tr> <tr> <td>H.</td> <td>Zone 5 (mid descending aorta to celiac)</td> </tr> <tr> <td>I.</td> <td>Zone 6 (celiac to superior mesenteric)</td> </tr> <tr> <td>J.</td> <td>Zone 7 (superior mesenteric to renals)</td> </tr> <tr> <td>K.</td> <td>Zone 8 (renal to infra-renal abdominal aorta)</td> </tr> <tr> <td>L.</td> <td>Zone 9 (infra-renal abdominal aorta)</td> </tr> <tr> <td>M.</td> <td>Zone 10 (common iliac)</td> </tr> <tr> <td>N.</td> <td>Zone 11 (external iliacs)</td> </tr> </table> <p>(Refer to Data Specifications for Harvest Codes)</p>					C.	→	B.	→	A.	→	X.	No additional devices inserted (only for locations 2 – 15)	A.	Below sinotubular junction	B.	Sinotubular junction to mid ascending	C.	Mid ascending to distal ascending	D.	Zone 1 (between innominate and left carotid)	E.	Zone 2 (between left carotid and left subclavian)	F.	Zone 3 (first 2 cm. distal to left subclavian)	G.	Zone 4 (end of zone 3 to mid descending aorta ~ T6)	H.	Zone 5 (mid descending aorta to celiac)	I.	Zone 6 (celiac to superior mesenteric)	J.	Zone 7 (superior mesenteric to renals)	K.	Zone 8 (renal to infra-renal abdominal aorta)	L.	Zone 9 (infra-renal abdominal aorta)	M.	Zone 10 (common iliac)	N.	Zone 11 (external iliacs)
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For devices other than aortic valves and aortic valve composite grafts:																																								
Implant Method:	1=Open Surgical 2= Endovascular																																							
Outcome:	1= Unsuccessfully implanted/maldeployed 2= Implanted/deployed and removed 3= Successfully implanted/deployed																																							
Model Number:	Enter device model number																																							
UDI:	Enter unique device identifier (not serial number)																																							
Location (Letter)	Implant Method	Outcome	Model Number	UDI																																				
ADevLoc01 (5450)	ADevDelMeth01 (5455)	ADevOut01 (5460)	ADevModel01 (5465)	ADevUDI01 (5470)																																				
ADevLoc02 (5475)	ADevDelMeth02 (5480)	ADevOut02 (5485)	ADevModel02 (5490)	ADevUDI02 (5495)																																				

IQVIA Update

Joe Brower & Melanie Bent



November 2020 Release Updates

The following updates are targeted to be release the weekend of November 7

- **ACSD Participant Dashboard Report**

- STS-2994 – IMA(Internal Mammary Artery) used displaying incorrect case count
 - Duplicate to item above - STS-2219 – Dashboard IMA Used case count
 - Duplicate to item above – STS-2068 – Dashboard IMA Used
- STS-3581 – Dashboard Graphs is not matching for discharge/mortality
 - Duplicate to item above - STS-3387 – Dashboard report percentages showing 0%

- **Missing Variable Report**

- STS-3419 – Inconsistent number returning for SSN data element, parent logic updated
- STS-3603 – MVR indicates variables are missing but values are present on the form; Dialysis, Warfarin, Direct Thrombin Inhibitors
- STS-1864 - Missing Variable Report showing variables - initial extubation date/time as missing, but values are present on the form





New Enhancements

ACSD Uploader Validation Enhancements

The following updates are targeted to be release the **weekend of November 7**

Critical error validations added to the following fields if they are missing in the uploader file submission:

- Surgeon NPI
- Hospital NPI
- *Primary Anesthesia NPI (if site opted in for Anesthesia program)

Records will be dropped if these fields are missing.

Applicable for data versions 2.81/2.9/4.20.2



November 2020 Release Updates Con't

The following updates are targeted to be release the **weekend of November 7**

ACSD Participant Dashboard Report (non-analyzed) Updates

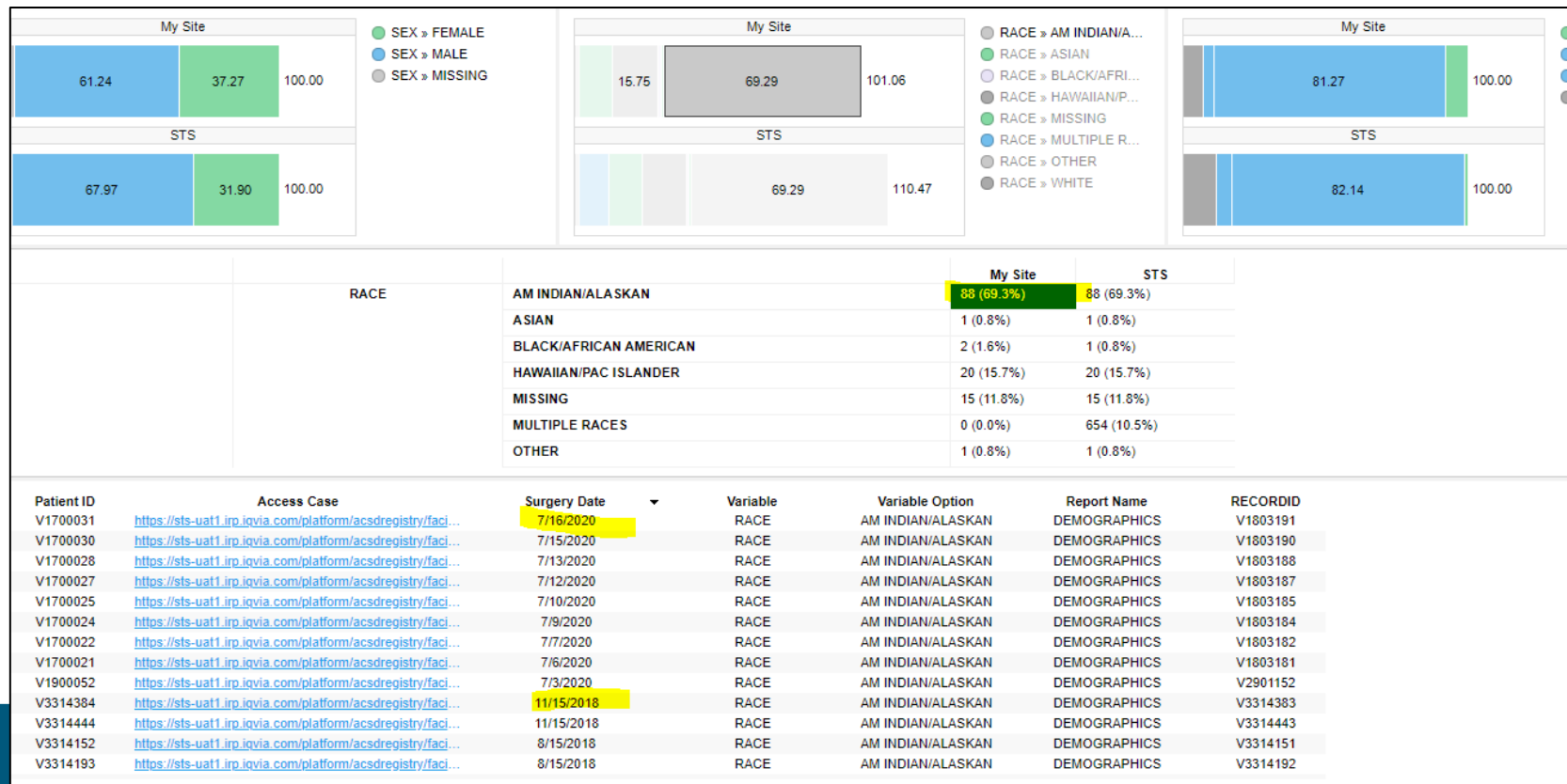
Updates will be applied to incorporate data mapping for identified variables between the 4.20.2/2.9/2.81 versions

- Update applied to incorporate the 4.20.2 Procedure Identification updates to the procedure filtering on the dashboard.
- Update applied to report logic to exclude patients identified as “in hospital-alive” from proclD assignment using 4.20.2 variable (dischmtptacutehospstill)
- Update applied to incorporate display label changes to existing variables
- Updates include new fields on the Discharge/Mortality Report section
 - **Hospital Discharge Date**
 - Missing percentage added
 - **Mortality Date**
 - Missing percentage added



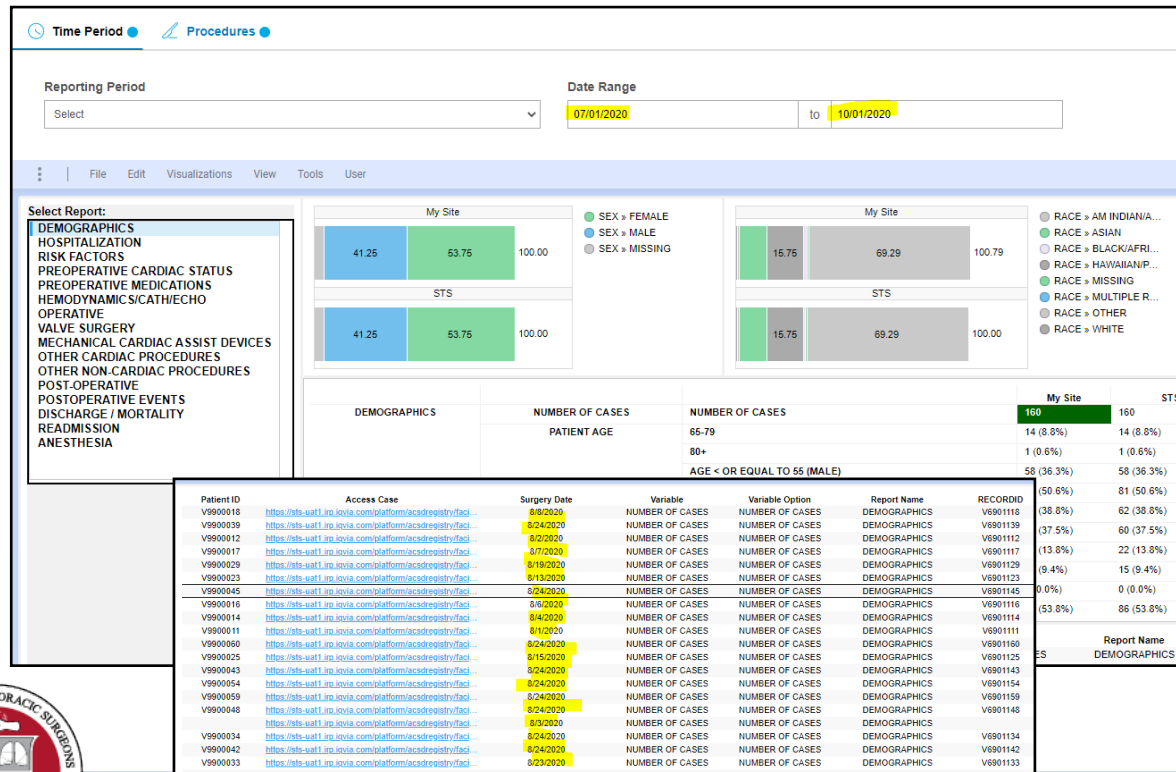
ACSD 4.20.2 Dashboard Variables

- **Race Variable Mapping for handling 4.20.2 and previous versions**
- The dashboard will display selected date range with cross over results for multiple data versions in the case drill down



ACSD 4.20.2 ProcID Filter Logic Updated

- The ACSD dashboard procedure parameter filter has been updated to align with the changes made for the 4.20.2 PROCID chart.



Reports

Select each report title below to view report specific parameters and generate data. Some reports have sub-reports.

Parameters

Time Period Procedures

Procedures

Select one or more

☒ All

☐ Isolated Coronary Artery Bypass (CABG)

☐ CAB: On-pump procedures

☐ CAB: Off-pump procedures

☐ CAB: First Operations

☐ CAB: Reoperations

☐ Isolated Aortic Valve Replacement (AV Replace)



ACSD 4.20.2 Dashboard Updates

- **Hospital Discharge Date**
 - Missing percentage added
- **Mortality Date**
 - Missing percentage added

Reports

Select each report title below to view report specific parameters and generate data. Some reports have sub-reports available upon selection.

File

Edit

Visualizations

View

Tools

User

			My Site	STS
	BETA BLOCKER	CONTRAINDICATED	0 (0.0%)	0 (0.0%)
		MISSING	0 (0.0%)	0 (0.0%)
		NO	26 (23.2%)	26 (23.2%)
		YES	86 (76.8%)	86 (76.8%)
	LIPID LOWERING - STATIN	CONTRAINDICATED	0 (0.0%)	0 (0.0%)
		MISSING	0 (0.0%)	0 (0.0%)
		NO	86 (76.8%)	86 (76.8%)
		YES	26 (23.2%)	26 (23.2%)
	LIPID LOWERING - OTHER	CONTRAINDICATED	26 (23.2%)	26 (23.2%)
		MISSING	0 (0.0%)	0 (0.0%)
		NO	0 (0.0%)	0 (0.0%)
		YES	86 (76.8%)	86 (76.8%)
	OPERATIVE MORTALITY	MISSING	0 (0.0%)	0 (0.0%)
		NO	0 (0.0%)	0 (0.0%)
		YES	88 (77.2%)	88 (77.2%)
		HOSPITAL DISCHARGE DATE	MISSING	0 (0.0%)
MORT-STATUS AT 30 DAYS AFTER SURGERY (EITHER DISCHARGED OR IN-HOSPITAL):	ALIVE	63 (39.1%)	63 (39.1%)	
	DEAD	86 (53.4%)	86 (53.4%)	
	MISSING	11 (6.8%)	11 (6.8%)	
	UNKNOWN	1 (0.6%)	1 (0.6%)	
	MISSING	0 (0.0%)	0 (0.0%)	
MORTALITY - DATE	MISSING	0 (0.0%)	0 (0.0%)	
STATUS AT HOSPITAL DISCHARGE:	DIED IN HOSPITAL	2 (1.8%)	2 (1.8%)	
	DISCHARGED ALIVE, DIED AFTER DISCHARGE	112 (98.2%)	112 (98.2%)	
	DISCHARGED ALIVE, LAST KNOWN STATUS ALIVE (OTHER THAN...)	0 (0.0%)	0 (0.0%)	
	DISCHARGED TO HOSPICE	0 (0.0%)	0 (0.0%)	
	IN HOSPITAL, ALIVE	0 (0.0%)	0 (0.0%)	
	MISSING	0 (0.0%)	0 (0.0%)	

ACSD Participant Dashboard Report



New Report
MIPS 2020 Performance
Measures
Demo
Coming this weekend



MIPS 2020 Performance Measures

- Surgeons and delegates can now review their current MIPS 2020 measure status using the new MIPS Performance Measures interactive Dashboard.
- Surgeons who consent via the electronic consent form will have the ability to access and review their 2020 quarterly results.
- The STS will report results on the behalf of consenting surgeons for 9 identified Adult Cardiac quality measures to CMS.
 - Please reference the STS.org website for further details - <https://www.sts.org/registries-research-center/sts-national-database/mips-reporting>



MIPS 2020 Performance Measures Dashboard

- The MIPS 2020 Report is an interactive dashboard
- Near-real time case data available for surgeon review
- UAT was successfully completed by identified surgeons
 - Feedback –
 - “Easy to use!”
 - “Looks great!”
 - “Report is intuitive and like the drill down capability to review cases that are identified as performance not met.”



MIPS 2020 Performance Measure Report

ANALYTICS

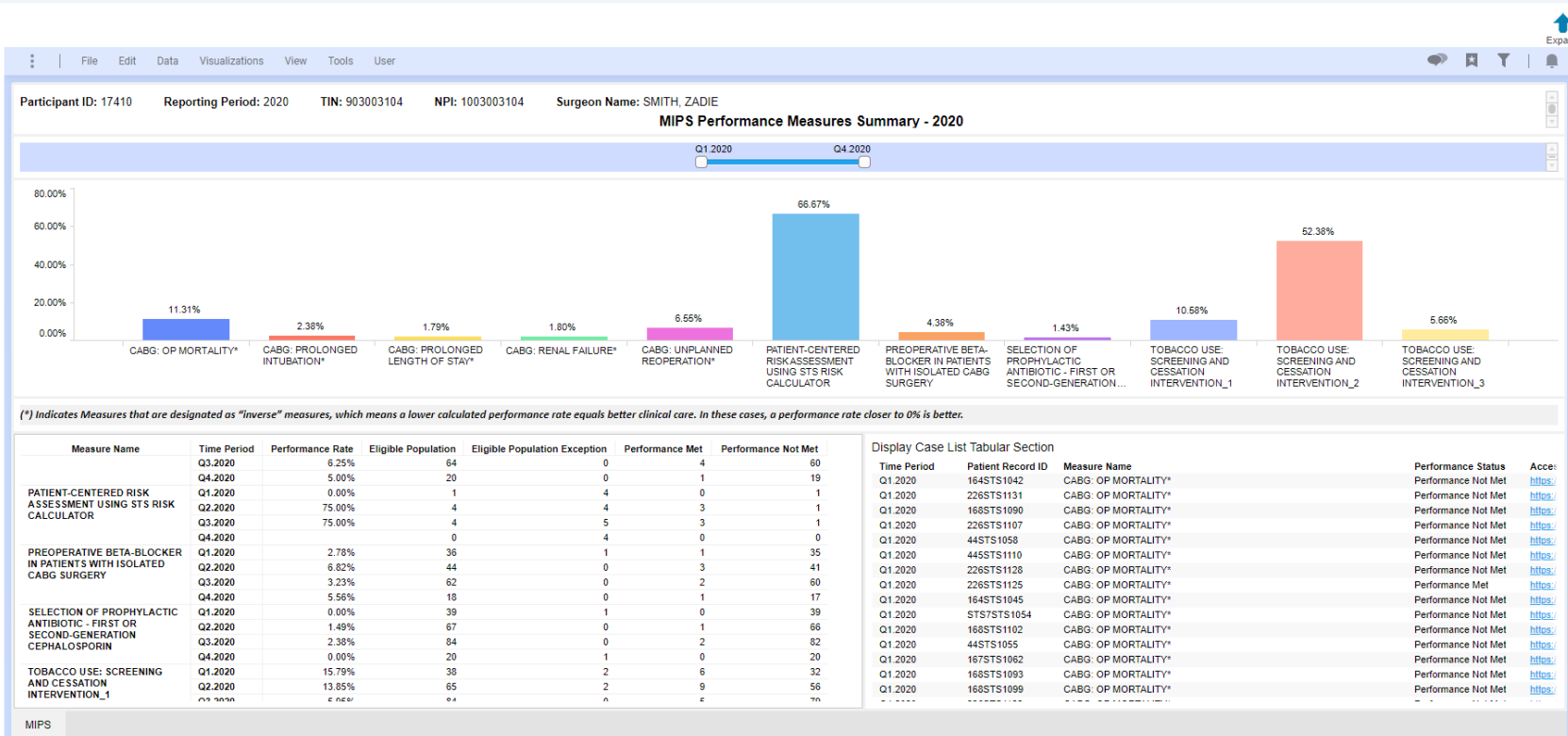
Operational Reports

MIPS Performance Measures Report

The Merit-based Incentive Payment System (MIPS) report will provide results for all available case data for the identified MIPS measures during the reporting time period.

ACSD Reports

MIPS Performance Measures Report

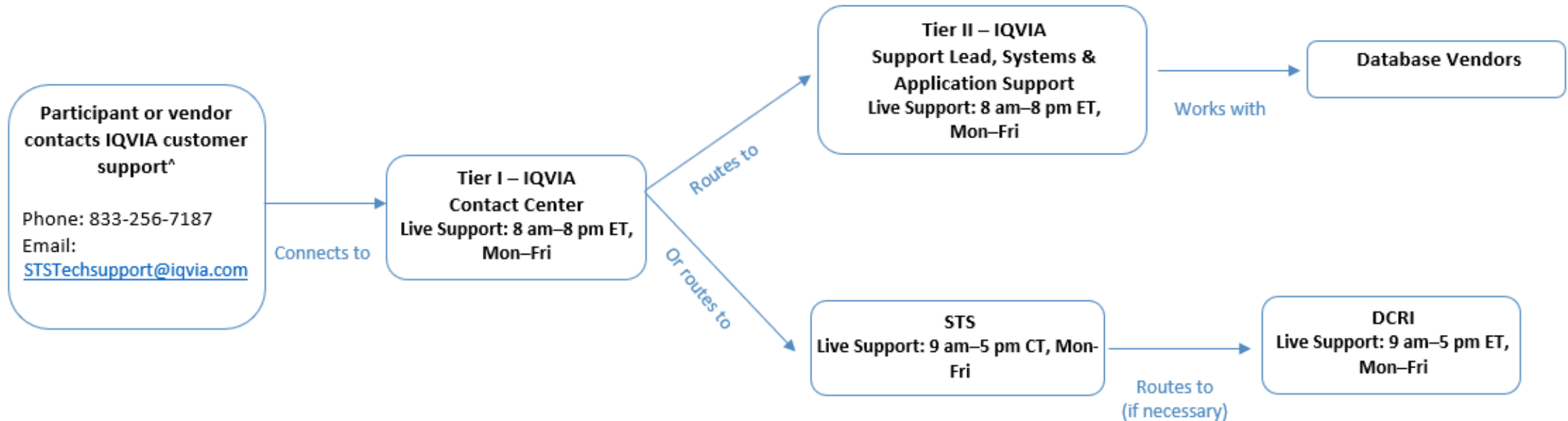


IQVIA Support Plan



IQVIA's Support Plan

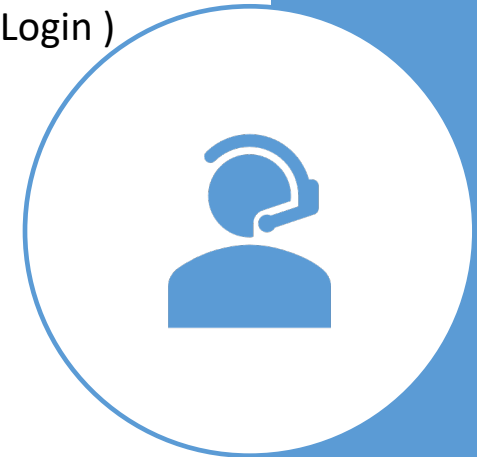
Please include your Participant ID (PID) in all communications with STS and IQVIA



^ Inquiries received outside live support hours will require a 24-hour turnaround window (i.e., one business day) for responses.

Resources

- [STS National Database Webpage](#)
- STSTechSupport@IQVIA.com (Uploader, DQR, Missing Variable, Dashboard, Password and Login)
- Phone Support: 1-833-256-7187
- [STS National Database Feedback Form](#)
- Resource Documents
 - Contact Information
 - Webinar Information
 - FAQ Document
 - Go-Live Checklist
 - Tiered-level Support Document
 - *Training Videos*
 - *Link to IQVIA*
 - ckrohn@sts.org



Contact Information

- Carole Krohn, Sr. Clinical Manager, STS National Database
 - CKrohn@sts.org
 - 312-202-5847
- Database Operational Questions
 - STSDB@sts.org



Open Discussion

Please use the Q&A Function.

We will answer as many questions as possible.

We encourage your feedback and want to hear from you!