

## Get With The Guidelines<sup>®</sup>-Resuscitation PMT<sup>®</sup> Updates

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## Presenter: Tia Raymond, MD, FAAP, FAHA

Heart.org/Resuscitation





### Tia T. Raymond, M.D. PEDIATRIC CARDIOLOGY

Dr. Tia Raymond is a board-certified pediatric cardiac intensivist who primarily treats patients in the cardiac intensive care unit who have congenital or acquired heart disease. She focuses on treating children before and after heart surgery and has a dedicated mission to obtain the best possible outcomes in cardiac critical care. Through continuous study, lecturing, and research participation, she remains current in innovative management techniques, and invasive/noninvasive diagnostic and interventional technologies.

Dr. Raymond has worked in the Congenital Heart Surgery Unit at Medical City Children's Hospital for more than 10 years. She has served as a volunteer for the American Heart Association's Get With the Guidelines-Resuscitation and the emergency cardiovascular care committee, and she actively participates in updates for the pediatric advanced life support guidelines. A Fellow of the American Academy of Pediatrics and the American Heart Association, her research publications focus on in-hospital resuscitation, cardiac intensive care, and quality improvement. She is often sought after for her expertise in pediatric cardiac critical care, including advanced treatment for heart failure and the use of extracorporeal membrane oxygenation. Dr. Raymond, a Dallas native, is married and has two young sons.

#### EDUCATION

B.S., Pepperdine University; M.D., University of Texas Southwestern Medical School; Internship and Residency, Children's Medical Center Dallas; Fellowship, Texas Children's Hospital/Baylor College of Medicine; Specialty Training, Texas Children's Hospital

#### PEDIATRIC CARDIAC INTENSIVISTS OF NORTH TEXAS

7777 Forest Lane, Suite B-246 | Dallas, Texas 75230 | 972.566.7730



# Summary of Updates

- ARC Form Updates (August 2018)
- Other Form Updates (August 2018)
- New Code Blue Measure Group (October 2018)
- Tutorial for creating PowerPoint Slides for the Code Blue Measures
- Updated Quality, Descriptive and Reporting Measures
- Minor updates (October 2018)
- New CSV Uploader MET Form (October 2018)
- New Site Characteristics: IHCA Incidence Tracking (October 2018)



## ARC Form Updates: Vital Signs

Instead of all vital signs within 4 hours of the event, we are asking for the last set of vital signs within 4 hours of the event.

#### REQUIRED: Enter last set of vital signs within 4 hours of event. -

Date/Time	Heart Rate	Systolic BP	Diastolic BP	Respiratory Rate	SpO2	Temp	Units



## ARC Form Updates: Pre-existing Conditions

	ARC 2.2 PRE-EXISTING CONDITIONS		
	Pre-existing Conditions at Time of Event (check all that apply)		
	None	Acute CNS non-stroke event	
Jnder Pre-existing	Acute stroke	Baseline depression in CNS function	
onditions,	<ul> <li>Cardiac malformation/abnormality - acyanotic (pediatric and newborn/neonate only)</li> </ul>	<ul> <li>Cardiac malformation/abnormality - cyanotic newborn/neonate only)</li> </ul>	
Septicemia" was	<ul> <li>Congenital malformation/abnormality (Non-Cardiac) (pediatric and newborn/neonate only)</li> </ul>	Congestive heart failure (this admission)	
noved to Historic and	Congestive heart failure (prior to this admission)	Diabetes Mellitus	
eplaced with "Sepsis"	Hepatic insufficiency	Hypotension/hypoperfusion	
	Major trauma	Metastatic or hematologic malignancy	
	Metabolic/electrolyte abnormality	Myocardial ischemia/infarction (this admission)	
	Myocardial ischemia/infarction (prior to this admit)	Pneumonia	
	Penal insufficiency     Sepsis	Respiratory insufficiency	



## ARC Form Updates: Interventions Already in Place Part A

ADC 2 3 INTERVENTIONS ALDEADY IN DLAC

- Aligned with CPA 2.3 Interventions Already in Place
  - Moved "IIP Invasive airway", "Mechanical ventilation", "Nebulized therapies" to Historic
  - Added new elements: "Noninvasive assisted ventilation", "Intra-arterial catheter", "Conscious/procedural sedation"

Interventions ALREADY IN PLACE when need for emergency assisted ventilation was fi
Part A: None
Non-invasive assisted ventilation
Bag-Valve-Mask
Mask and/or Nasal CPAP
Mouth-to-Barrier Device
Mouth-to-Mouth
Laryngeal Mask Airway (LMA)
Other Non-Invasive Ventilation: (specify)
Intra-arterial catheter
Conscious/procedural sedation
End Tidal CO2 (ETCO2) Monitoring
Supplemental oxygen (cannula, mask, hood, or tent)
Invasive assisted ventilation, via an:
Endotracheal Tube (ET)
Tracheostomy Tube
Select Method(s) of confirmation used to ensure correct placement of Endotracheal Tube (ET) apply):
Waveform capnography (waveform ETCO2)
Capnometry (numeric ETCO2)
Exhaled CO2 colorimetric monitor (ETCO2 by color change)
Esophageal detection devices
Revisualization with direct laryngoscopy
None of the above
Not Documented
Monitoring:
Apnea
Apnea/bradycardia
ECG
Pulse oximetry
Vascular access: O Yes O No/Not Documented ©
Any vasoactive agent in place? 🔿 Yes 🔿 No/Not Documented 🕲



## ARC Form Updates: Interventions Already in Place Part B

### OPTIONAL: Part B: None

- Chest tube(s)
- Dialysis/extracorporeal filtration therapy (ongoing)
- Extracorporeal membrane oxygenation (ECMO)
- Implantable Cardiac Defibrillator (ICD)
- Inhaled nitric oxide therapy
- IV/IO continuous infusion of antiarrhythmic(s)
- Prostaglandins continuous infusion (newborn/neonate)
- Other prior interventions in place, specify:

### New data elements



## ARC Form Updates: Event and Other Interventions Tabs Event Tab: Was there an emergency airway team called?

### Added new element

### <u>Other Interventions Tab:</u>

Moved "Drug Int Dextrose bolus" and "Drug Int Sodium Bicarbonate" to Historic Drug Interventions (check all that apply)

 None (review options below carefully)

 Bronchodilator: Inhaled

 Bronchodilator: Sub Q or IV/IO

 Calcium chloride/Calcium gluconate

 Fluid bolus for volume expansion

 Magnesium sulfate

 Neuromuscular blocker/muscle relaxant

 Prostaglandin E1 (PGE)

 Reversal agent

 Other drug interventions



# Other Form Updates

CPA Newly born:

Moved "Apnea" and "Apnea/bradycardia" from Historic to CPA 2.3



Admission/Discharge:

Added 4 Warnings for Admit and

Discharge CPC & PCPC fields



Apnea/bradycardia

#### CPC/PCPC Scoring Definitions

Admission CPC:	<b>•</b>	Unknown/Not Documented/Not Applicable
Admission PCPC:	<b></b>	Unknown/Not Documented/Not Applicable (newborn)

Show/Hide

#### If patient survives to discharge

CPC at Discharge:	Unknown/Not Documented
PCPC at Discharge:	Unknown/Not Documented

#### Admission CPC Unk:

We recommend entering CPC/PCPC score for all patients. Information is often found in PT or OT otes, nutrition, neurology, and discharge notes. QADMDIS500

#### Admission PCPC Unk:

We recommend entering CPC/PCPC score for all patients. Information is often found in PT or OT otes, nutrition, neurology, and discharge notes.

#### CPC at Discharge Unk:

We recommend entering CPC/PCPC score for all patients. Information is often found in PT or OT otes, nutrition, neurology, and discharge notes. QADMDIS502

#### PCPC at Discharge Unk:

We recommend entering CPC/PCPC score for all patients. Information is often found in PT or OT otes, nutrition, neurology, and discharge notes. QADMDIS503



## Changes to Configurable Measure Reports

Add Code Blue measure bundles: Adult, Pediatric, Neonate/Infant, Newly Born

Cross Form and Admission & Discharge Measures:	Select Measure V
CPA Special Measure Sets:	Select Measure
Historic Measures:	**Code Blue (Pediatric)** **Code Blue (Neonate/Infant)**
	**Code Blue (Newly Born)**

Select Measure × Measure Sets: Add "Advanced Reporting" links after Select Measure Historic Measures:  $\sim$ Frequency of Events Report the measures drop-downs for easy Advanced Get With The Guidelines-Resuscitation Risk Adjusted Survival to Discharge Reporting: Report access to the Frequency of Even × Format: Risk Adjusted Survival to Discharge

CPA Special



# Code Blue – Adult, Pediatric, and Neonate/Infant

### New Measures

- CPA: Event Location
- CPA: Illness Category
- CPA: Day of the Week
- CPA: Hour of Day in two-hour increments
- CPA: Subject Type
- CPA: Age
- CPA: Event Survival (ROC)

Existing Measures

- CPA: Survival to Discharge
- CPA: Initial Rhythm
- CPA: Time to first shock <= 2 min for VF/pulseless VT first documented rhythm (all patients)
- CPA: Time to IV/IO epinephrine <= 5 minutes for asystole or Pulseless Electrical Activity (PEA)
- CPA: Percent Pulseless Cardiac events monitored or witnessed
- CPA: Confirmation of airway device placement in trachea



## Code Blue – Newly Born

- CPA: Event location
- CPA: Illness Category
- CPA: Day of the week
- CPA: Hour of Day in two-hour increments
- CPA: Subject type
- CPA: Age

- CPA: Event survival (ROC)
- CPA: Survival to discharge
- CPA: Initial Rhythm
- CPA: Percent pulseless cardiac events occurring in an ICU setting versus a ward setting
- CPA: Confirmation of airway device placement in trachea

## Benchmarks



REPORT 1	
Recognition Measures:	CPA: Time to first shock <= 2 min for VF/pulseless VT first documented rhythm ▼
CPA & PCAC Measures:	Select Measure
ARC Measures:	Select Measure
MET Measures:	Select Measure
Cross Form and Admission & Discharge Measures:	Select Measure
Historic Measures:	Select Measure
Format:	Bar Chart 🔻
Compare to: (ctrl-click to select multiple)	My Hospital Academic Hospitals All Hospitals Bed Size for CPA - 500+ Beds Bed Size for MET - 300+ Beds Children's Hospital Members East North Central Hospitals Midwest Region Hospitals Newborn/neonate Levels - Level IIIc Pediatric Beds - < 100 Beds Pediatric only hospitals - Yes

CPA: Percent of initially pulseless events with VF/pulseless VT first documented rhythm with time to first shock <= 2 minutes.

Because we do not measure seconds, this measure reflects output exactly according to the ACLS guidelines. It includes all times from 0 minutes to 2 minutes and 59 Seconds (one second short of 3 minutes). We do not use "3 minutes" in the measure description because if we used "3 minutes" then it would include 0 minutes to 3 minutes 59 seconds (one second short of 4 minutes). ECC (developers of the ACLS courses), our volunteers, and TJC in developing their CA proposed measures made the decision that <= 2 minutes was in compliance with the existing studies not the minute longer of <= 3 minutes.

Add Another Report



## Tutorial: Creating PowerPoint slides

To share your code blue report group, you may want to place the graphs or tables into PowerPoint slides.

 After generating a report bundle, select "print" (note: because there are 13 reports being downloaded, it does take a few seconds or more to generate)

		Print	Export to	Excel   Exp	ort to .csv				
2. N		~~ +~ , <u>~</u> *			Geleet "en	~~″			
	What do you want Oct-2018-215336.p From: heart.irp.iqvia	to do with M odf? a.com	easureResults-342	2237-30-	Open	Save	^	Cancel	×



1. If you have a screen grabbing tool, such as "Snipping Tool" or "Snaglt" or the print screen button, you may choose any of those to copy the graphs and paste them into a PPT slide. If you choose this method, you may need to reduce the size of the image within the .pdf. **Click on the "zoom" minus sign** until you reach a desired size.





- 4. Next, use your screen capture program of choice to select the graph or table image, then copy (ctrl + c) and paste (ctrl+v) into a PowerPoint slide.
- 5. You can resize, crop, or format your image within PowerPoint.
- 6. Repeat these steps for each graph or table you'd like in your PPT.





Or, you may find it easier to open PowerPoint and use the "Screen Clipping" tool to insert an image of the slide or table.

- 1. Open PowerPoint
- 2. Then, make sure the pdf of your code blue report is open, the minimize it.
- 3. Next, in PPT, go to "Insert" then "Screenshot"





## Tutorial: PPT Screenshot

- Now you will select
   "Screen clipping"
- You can resize and crop the image once it appears on your PPT slide.
- Repeat these steps for each graph or table you'd like in your PPT.





Some Adobe programs allow for exporting directly into PPT.

1. Click on "Export PDF"

Find your tools here
1 Create PDF
Edit PDF
Export PDF
🥟 Comment
Organize Pages
Enhance Scans
D Protect
<u> </u> Fill & Sign
Prepare Form
Compare Files



## Tutorial: Export to PPT

- Then, select
   "PowerPoint"
- 3. Then, "Export"

### Export your PDF to any format





## Tutorial: Export PDF to PPT

- A new window will appear and you will need to save the export.
   (Make sure the "open file after export" box is checked)
- 2. Save your PPT to your desired location
- Once saved, the PPT will open with the graphs and tables formatted to fit onto each slide (next slide shows a sample)

Save As	×
Save As	
Storage	File Format PowerPoint Presentation (*.pptx)
Document Cloud	Open file after export
Add Account	Save in Recent Folder
	Desktop C:\Users\Christina.Sterzing\Desktop\
	Resus Customer Webinar C:\Users\Christina.Sterzing\Desktop\Resus Customer Webinar\
	Choose a Different Folder Cancel



Date of report: 10/30/2018 20:51:28 GMT-05:00 run by User: Christina Sterzing (cs\_staffdemo) at Site: AHA National Demo Site(59274)



## Tutorial: Final Notes

**Option 3 is the quickest way** to create a PPT for your code blue report group; however, not all Adobe versions offer this.

You may need to check with your hospital IT staff for questions about upgrading to a current version of Adobe DC or purchasing Adobe Pro.



## Measure updates

- Updates to Quality, Reporting, and Descriptive Measures
  - Each measure was updated to align with the population definition changes that took

place in 2017

• New Medical History under Cross-Form Measures



# Medical History Report

- On Configurable Measure Reports, click on the dropdown for Cross Form and Admission & Discharge Measurses
- Select "CPA, ARC & PCAC: Medical History"

MET Measures	Select Measure V				
Cross Form and Admission & Discharge Measures:	Select Measure Reporting Measures CPA & ARC: Confirmation Methods for correct airway placement CPA & ARC: Resuscitation-Related Events and Issues				
CPA Special Measure Sets:	CPA & ARC: Types of Ventilation Provided CPA & ARC: Was any Endotracheal Tube (ET) or Tracheostomy Tube inserted/reinserted during event				
Historic Measures:	CPA & PCAC: Induced hypothermia initiated				
Advanced Reporting:	Delivery Mode & Presentation Fetal Monitoring Maternal Conditions Special Circumstances Recognized at Birth Descriptive Measures				
Format:	CPA, PCAC, ARC, & MET: Age				
L	CPA, ARC & PCAC: Medical History				
Compare to:	CPA, PCAC, ARC, & MET: Discharge Status CPA, PCAC, ARC, & MET: Event Location CPA, PCAC, ARC, & MET: Pre-event Bed Size for MET - 0-299 Beds				
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# Frequency of Events Report



Patient	Patient Event Date and		
ID	Time	Population	Patient Population
no filter 🗸 🗸	no filter 🗸 🗸	no filter	column displays
RES1004	07/31/2018 00:00	Newly Born	"Neonate/Infant" and
RES1003	07/31/2018 00:00	Neonate	"Newly Born"



## MET CSV uploader



#### Uploaders

CSV Uploader Standard CSV Uploader

CSV CPA Uploader Standard CSV CPA Uploader

CSV MET Uploader Standard CSV MET Uploader

XML Uploader Standard XML Uploader Contact your local QI Director for more information about the MET form csv uploader



# Site Characteristics: IHCA

- New site traits for collecting information for Inhospital Cardiac Arrest measures
- Stay tuned for webinars discussing this information: where to get it within your hospital and why we're collecting it!
- Review our website for the call to action for improving In-Hospital Cardiac Arrest: <u>http://www.heart.org/en/professional/quality-</u> improvement/get-with-the-guidelines/get-withthe-guidelines-resuscitation/get-with-theguidelines-resuscitation-clinical-tools

IHCA	
How many med/surg bed days?	
How many ped ward bed days?	
Total adult admissions	
Total ped admissions	
Total neonate/infant	
Total newly born	
Adult ICU bed days	
Ped ICU bed days	
NICU bed days	



## Questions?



## Contact Us to Learn More

### Tanya Lane Truitt, RN MS

Senior Manager QSI Programs & Operations: Resuscitation & HF Get With The Guidelines® <u>tanya.truitt@heart.org</u>

### Liz Olson, CVA

Program Manager, *Get With The Guidelines – Resuscitation* 

liz.olson@heart.org



## Thank you for your active participation and contributions to Get With The Guidelines-Resuscitation!