

Supplemental Information

Get With The Guidelines-Resuscitation Investigators

Besides the authors Paul S. Chan, MD, MSc and Monique A. Starks, MD, MHS, members of the Get With The Guidelines-Resuscitation Adult Task Force include:

Saket Girotra, MD, University of Iowa Carver College of Medicine; Michael W. Donnino, MD, Beth Israel Deaconess Medical Center; Dana P. Edelson, MD, MS, University of Chicago; Robert T. Faillace, MD, ScM, Geisinger Healthcare System; Romergryko Geocadin, MD, Johns Hopkins University School of Medicine; Raina Merchant, MD, MSHP, University of Pennsylvania School of Medicine; Vincent N. Mosesso, Jr., MD, University of Pittsburgh School of Medicine; Joseph P. Ornato, MD and Mary Ann Peberdy, MD, Virginia Commonwealth University.

Supplemental Table 1: Variable Definitions for Clinical Characteristics

Definitions of Pre-existing Conditions	
Congestive heart failure	<p>This Admission- documentation of newly diagnosed congestive heart failure during this admission and prior to this CPA event.</p> <p>Prior Admission- documented diagnosis of congestive heart failure prior to this admission.</p>
Myocardial infarction	<p>This Admission- documentation of a new diagnosis of myocardial ischemia (acute coronary syndrome)/infarction this admission. Prior Admission- documented past medical history of myocardial ischemia (acute coronary syndrome)/infarction prior to this admission.</p>
Respiratory Insufficiency	<p>Evidence of acute or chronic respiratory insufficiency within 4 hours up to the time of the event, defined by ANY of the following:</p> <p>PaO₂/FiO₂ ratio < 300 (in the absence of pre-existing documented cyanotic heart disease).</p> <p>PaO₂ < 60 mm Hg (in the absence of pre-existing documented cyanotic heart disease).</p> <p>SaO₂ < 90 %, (in the absence of pre-existing documented cyanotic heart disease);</p> <p>PaCO₂, EtCO₂ or TcCO₂ > 50 mm Hg.</p> <p>Ages 18+ years – spontaneous respiratory rate > 40/min or < 5/min.</p> <p>Ages 9-17 years – spontaneous respiratory rate > 50/min or < 5/min.</p> <p>Ages 1-8 years – spontaneous respiratory rate > 60/min or < 5/min.</p> <p>Age < 1 year – spontaneous respiratory rate > 60/min or < 10/min.</p> <p>Requiring non-invasive ventilation (e.g., Bag-Valve-Mask, Mask CPAP/BiPAP, Nasal CPAP/BiPAP, negative pressure ventilation).</p> <p>Requiring ventilation via invasive airway (e.g., T-piece, assist control, IMV, pressure support, high frequency).</p>
Metabolic or Electrolyte abnormalities	<p>Evidence of metabolic/electrolyte abnormality within 4 hours up to the time of the event, defined by ANY of the following:</p> <p>Adult/Pediatric:</p> <p>Sodium < 125 or > 150 mEq/L</p> <p>Potassium < 2.5 or > 6 mEq/L</p> <p>pH < 7.3 or > 7.5, arterial</p> <p>Lactate > 2.5 mmol/L,</p> <p>Blood glucose < 60 mg/dL</p>
Diabetes Mellitus	<p>Documented diagnosis of Type I or Type II diabetes mellitus prior to this CPA event</p>

Acute Stroke	Documented diagnosis during this hospitalization of stroke, ischemic stroke, or hemorrhagic stroke. Do not select "acute stroke" here if the patient has a documented past medical history of stroke prior to cardiac arrest admission. This response is meant to capture new onset strokes.
Pneumonia	Documented diagnosis of active pneumonia, where antibiotics have not yet been started or the pneumonia is still being treated with antibiotics.
Septicemia	Medical documentation of treatment and/or evidence of sepsis. The presence of bacteria (bacteremia), other infectious organisms, or toxins created by infectious organisms in the bloodstream with spread throughout the body. Sepsis may be associated with clinical symptoms of systemic illness, such as fever, chills, malaise, low blood pressure, and mental-status changes.
Malignancy	Any solid tissue malignancy with evidence of metastasis, or any blood borne malignancy.
Dialysis or extracorporeal filtration therapy ongoing	Hemo- or peritoneal dialysis, continuous arteriovenous or venovenous hemofiltration/dialysis ongoing at time of the event.
Renal Insufficiency	Evidence of renal insufficiency prior to the event, defined by ANY of the following: Adult [18+]: Requiring ongoing dialysis or extracorporeal filtration therapies. Creatinine > 2 mg/dL within 24 hours up to the time of the event.

Supplemental Table 2 :
Information on Cardiac Arrest by Day of the Week between Dialysis and Non-Dialysis Patients

		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Total
<i>Non-Dialysis Patients</i>	<i>Number</i>	2938	3390	3352	3460	3294	3221	2991	22646
	<i>% of All Cardiac Arrests</i>	12.97	14.97	14.8	15.28	14.55	14.22	13.21	
<i>Dialysis Patients</i>	<i>Number</i>	1001	1421	1304	1229	1188	1254	1101	8498
	<i>% of All Cardiac Arrests</i>	11.78	16.72	15.34	14.46	13.98	14.76	12.96	
<i>Total Patients</i>		3939	4811	4656	4689	4482	4475	4092	31144
		12.65	15.45	14.95	15.06	14.39	14.37	13.14	100