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Temperature levels guiding triage & prognosis

Mild hypothermia: 95°/35°

## Evidence-Based Clinical Pathway: Accidental Hypothermia – Temperature assessment & staging

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Primary Sources: 1) Brown DJA et al. Accidental hypothermia. NEJM 2012;367: 1930-1938; 2) Danzl D. Accidental hypothermia, Chapter 138 in Rosen's Emergency Medicine 7th edition 2009; 3) Bessen HA, et Treatment implications at various temperature levels al. Hypothermia. Chapter 203 in Tintinalli's Emergency Medicine, 7th edition 2011. resuscitation if no ROS Pathway applicability: Patients with unintended (nontherapeutic) hypothermia Risk of rewarming latrogenesis (airway/fluids insulin not reliably effective below this temp This pathway is intended as a complement to the clinical pathways: "Accidental Hypothermia - Rewarming treatment" & "Accidental Hypothermia - Diagnostic & therapeutic considerations" Provide clinical care as per other hypothermia clinical pathways 3 2 2 3 3 3 3 3 3 4 5 5 Concurrent with clinical care, assess temperature: Intubated patient: Thermistor probe in distal third of esophagus - Proximally placed thermistors give false-high readings if using heated-air inhalation Nonintubated patient or intubated patient. Thermistor probe in bladder - Bladder thermistors give false-high readings during warmed-fluid peritoneal lavage Less-preferred options for temperature assessment: Rectal thermometry (need to insert probe 15 cm into rectum; temps may lag behind core temperatures during rewarming) Expected physiology at various temperature levels - For rectal or oral assessments, low-reading thermometers must be used if there is any chance of hypothermia If these approaches are used they should only be temporizing measures until thermistors can be placed in esophagus or bladder. Temperature assessment options to be avoided in hypothermic patients: Axillary or skin/temporal thermometry Indirect infrared tympanic membrane thermometry 3 3 3 4 6 8 8 8 93

The J wave, seen at the QRS-ST junction, results from transmural voltage gradient during early ventricular repolarization. J waves are suggestive of hypothermia but may also be seen in other conditions (e.g., Brugada syndrome, hypercalcemia).

