

## SYMPTOMS

- Polyuria (98%)
- Polydipsia (98%)
- Nausea/Vomit (>50%)
- Weight Loss (81%)
- Fatigue (62%)
- Dyspnea (57%)

## SIGNS

- Tachycardia
- Tachypnea
- Hypotension
- Lethargy
- Kussmaul Breathing
- Decreased skin turgor

## LABS

- Glucose >250 mg/dl
- Ketonuria (100%)
- Ketonemia (b-HB)
- Metabolic Acidosis
- Anion Gap
- Bicarbonate <18 meq/L

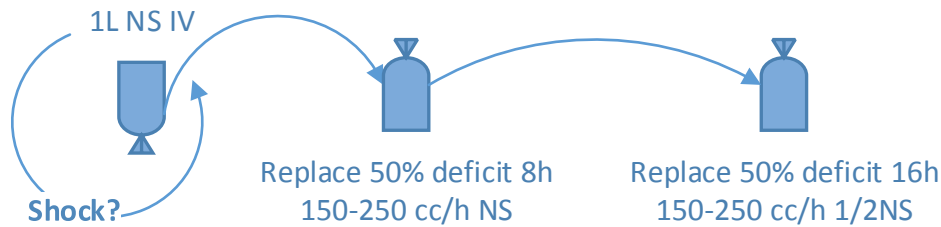
## DIFFERENTIAL DIAGNOSIS

- Hyperosmolar Hyperglycemia
- AG-Metabolic Acidosis (MUD-PILES)
- Alcoholic or Starvation ketoacidosis
- Myocardial Infarction
- Pancreatitis
- Gastroenteritis

## Emergent Fluid Replacement

Phase 1

Rehydrate



### PRECAUTIONS

- Add D5 when glucose <200-250 mg/dl
- Adjust fluids based on sodium
- Avoid serum osm drop >3 osm/h

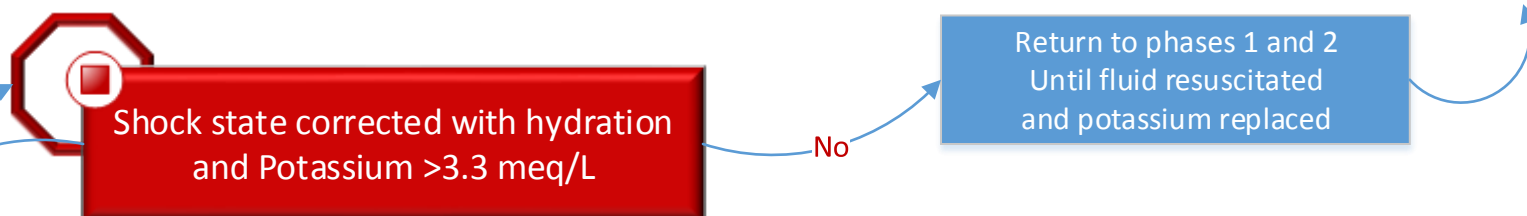
## Emergent Potassium Management

Phase 2

K+ Replacement

<p><b>POTASSIUM &lt;3.3 MEQ/L</b></p> <ul style="list-style-type: none"> <li>• KCL 20-30 meq/h until K+ &gt;3.3</li> <li>• <b>Hold Insulin until corrected</b></li> <li>• Check potassium hourly</li> <li>• Cardiac Monitoring</li> </ul>	<p><b>POTASSIUM 3.3 TO 5.2 MEQ/L</b></p> <ul style="list-style-type: none"> <li>• KCL 20-30 meq/L in IV Fluids</li> <li>• Maintain Potassium 4-5 meq/l</li> <li>• Check Potassium every 2 hours</li> </ul>	<p><b>POTASSIUM &gt;5.2 MEQ/L</b></p> <ul style="list-style-type: none"> <li>• Hold potassium replacement</li> <li>• Check Potassium every 2 hours</li> <li>• Add KCL to fluids when &lt;5.0 meq/L</li> </ul>
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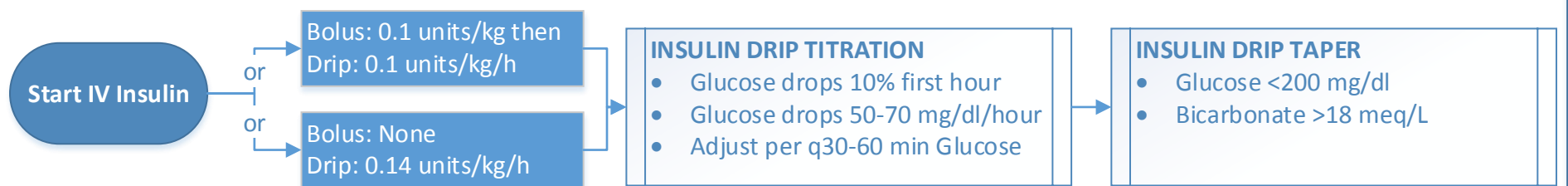
Phase 2



## Blood Glucose Control – Insulin Drip

Phase 3

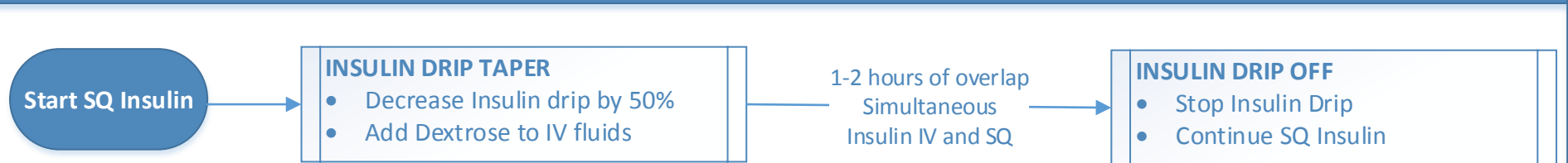
Insulin Drip



## Blood Glucose Control – Insulin SQ

Phase 4

Insulin SQ



## Electrolyte Replacement and Monitoring

Phase 5

Electrolytes

<p><b>ELECTROLYTES</b></p> <ul style="list-style-type: none"> <li>• Replace Phosphorus if &lt;0.5-1.0</li> <li>• Replace Magnesium if &lt;1.2</li> </ul>	<p><b>SEVERE ACIDOSIS (PH&lt;6.9)</b></p> <ul style="list-style-type: none"> <li>• Replace Bicarbonate and Potassium</li> <li>• Rehydration</li> </ul>	<p><b>MONITOR LABS EVERY 2-4 HOURS</b></p> <ul style="list-style-type: none"> <li>• Serum electrolytes</li> <li>• Serum Creatinine and BUN</li> </ul>
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