**Appendix 1 – Best Practice Advisories (BPAs) and Electronic Health Record (EHR) Order Sets**

**BEST PRACTICE ADVISORIES (BPAs)**

All BPAs fire for the designated provider upon opening of that patient’s chart in the EHR.

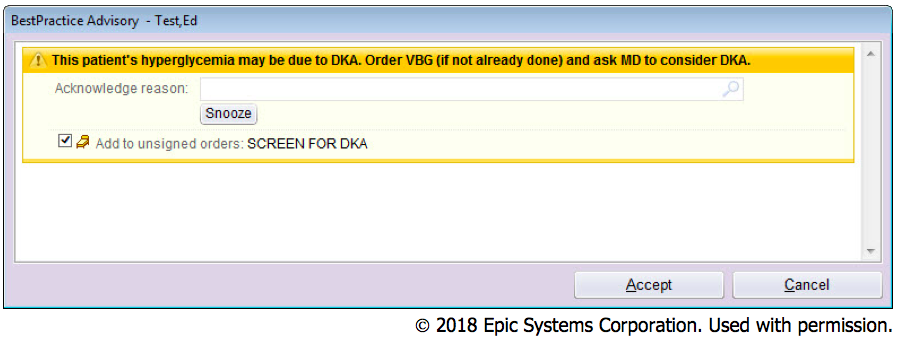
**BPA #1 Screen for DKA**

Trigger: ED point-of-care (POC) glucose >500 mg/dL

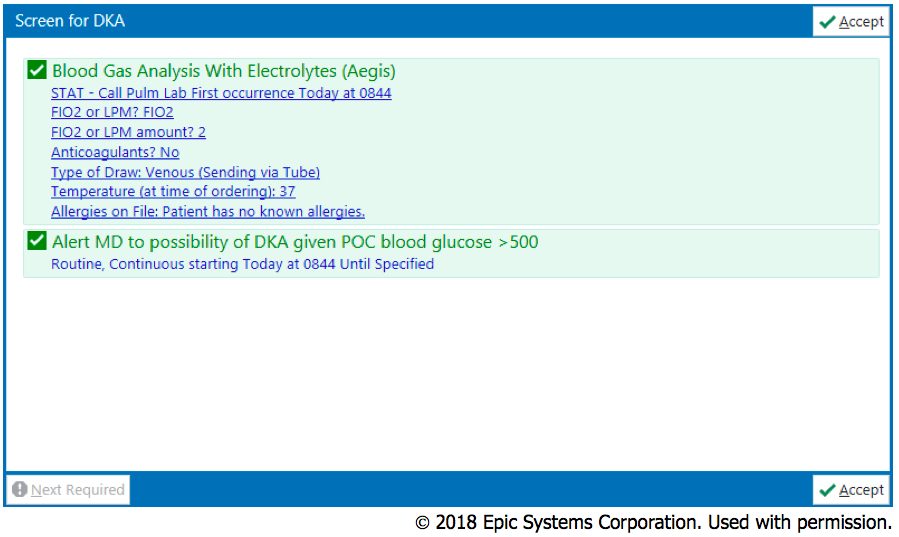
Target: ED RN

Response: “This patient’s hyperglycemia may be due to DKA. Order VBG (if not already done) and ask MD to consider DKA.”

Screenshot of BPA



Screenshot of Nursing Order Panel



**BPA #2: Diagnosis of DKA**

Trigger: ED patient with 1st VBG (or ABG) glucose >250 AND bicarbonate <18 AND pH <7.3

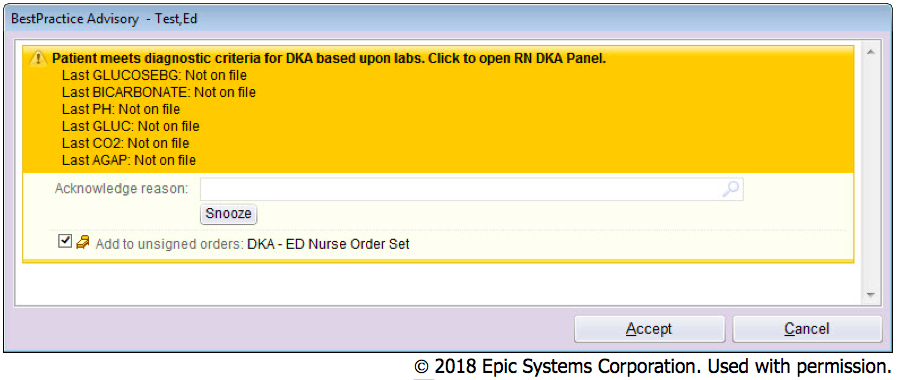
OR

ED patient with 1st BMP (or CMP) glucose >250 AND bicarbonate <18 AND anion gap >14

Target: ED RN and ED Provider

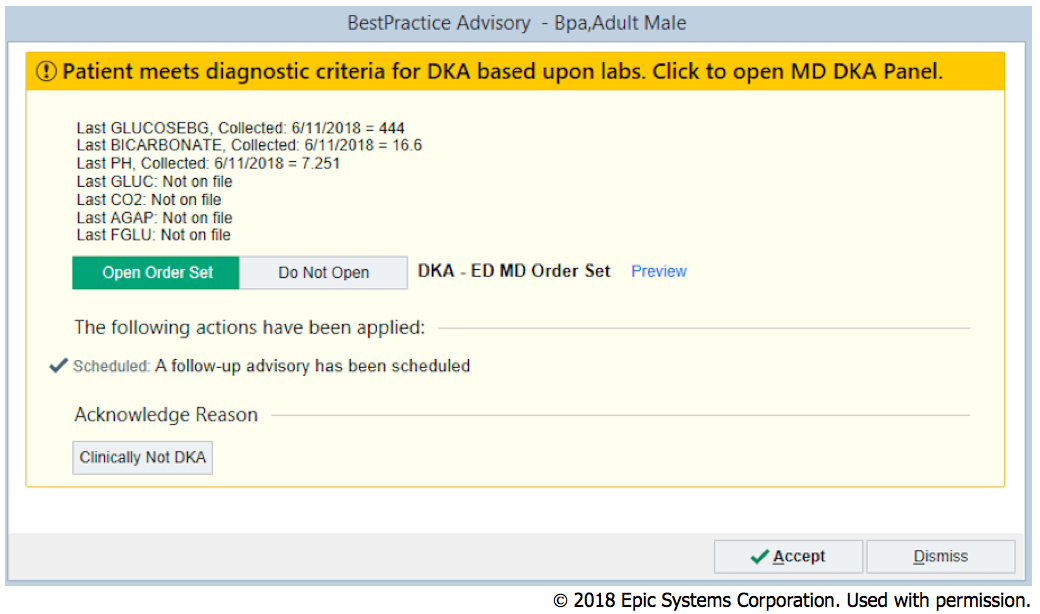
Response to ED RN: “Patient meets diagnostic criteria for DKA based upon labs. Click to open RN DKA Panel.”

Screenshot of Nursing BPA

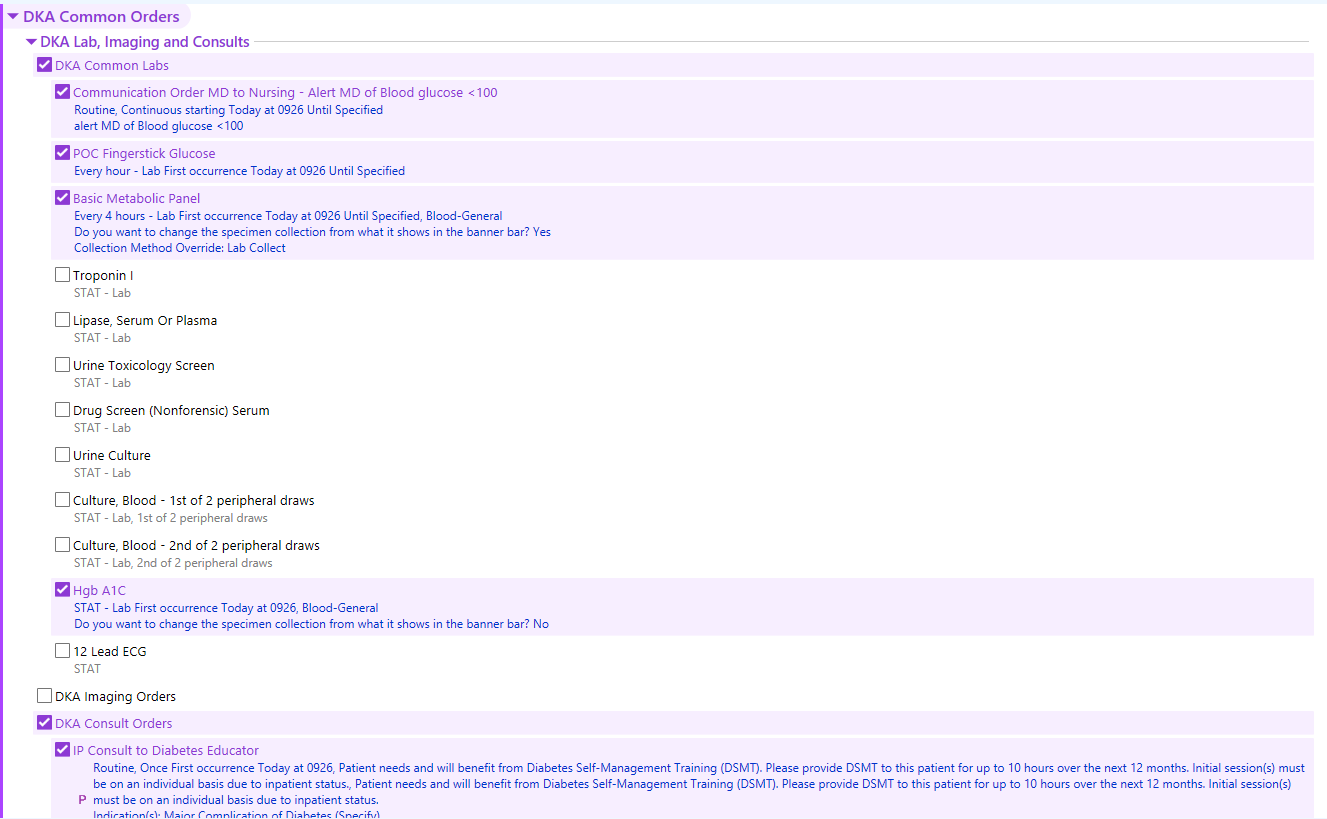


Response to ED Provider: “Patient meets diagnostic criteria for DKA based upon labs. Click to open MD DKA Panel.”

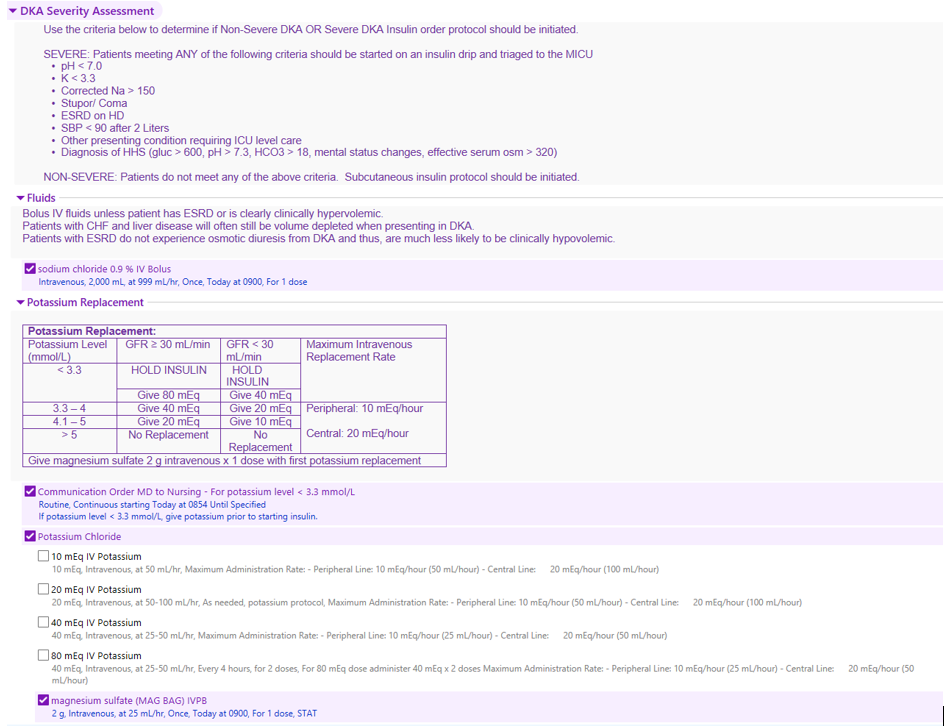
Screenshot of Provider BPA

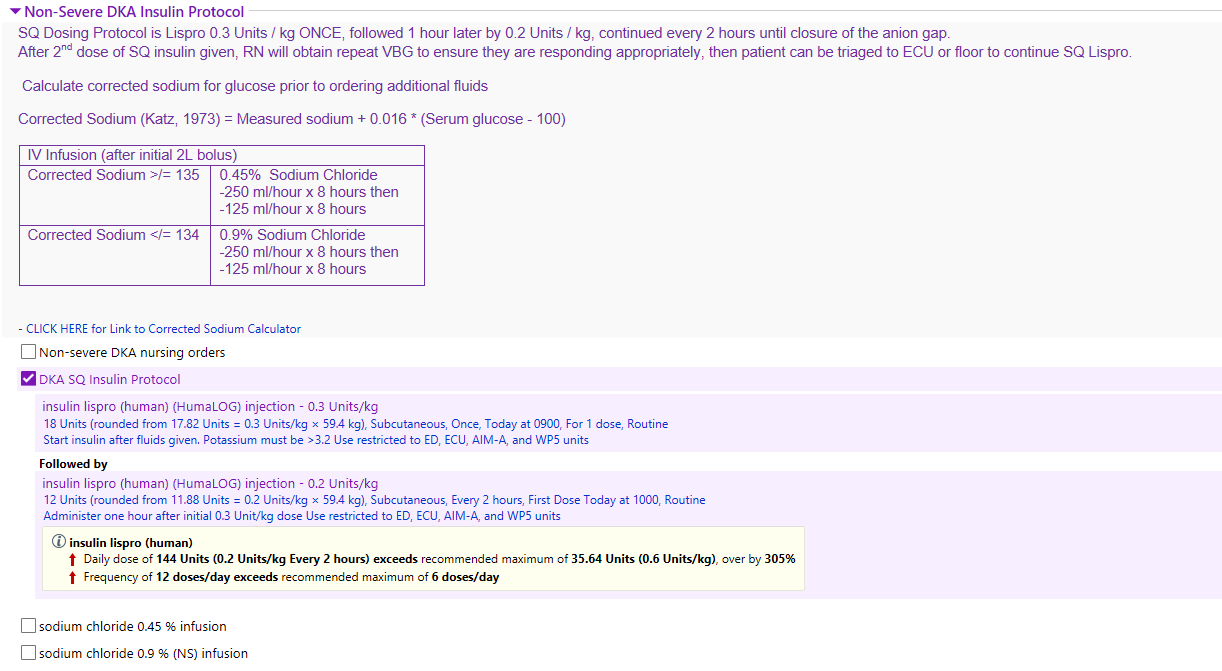


Screenshot of Provider Epic Order Set

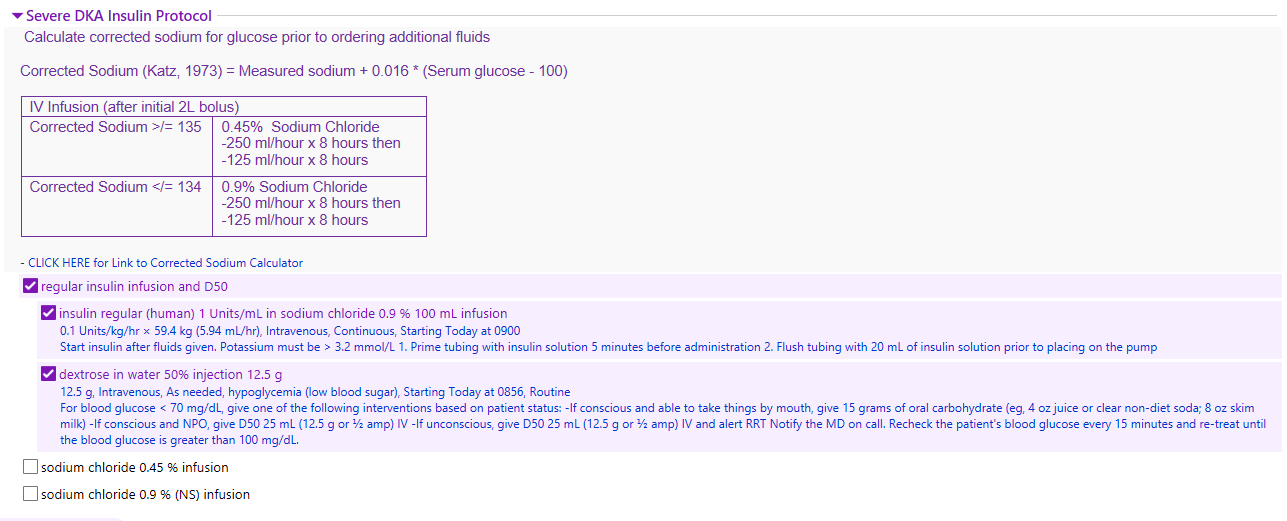


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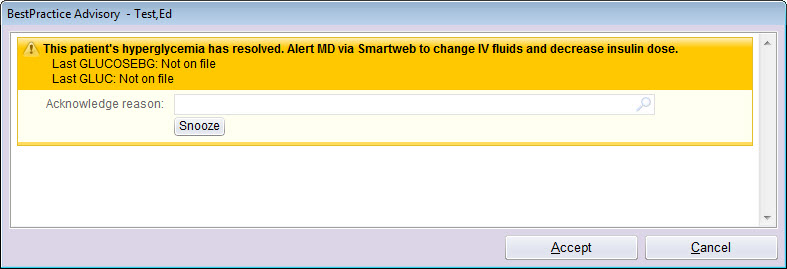
**BPA #3: Resolution of Hyperglycemia**

Trigger: First blood glucose <250 mg/dL based upon BPA #2 firing (or DKA order set utilized)

Target: RN and MD

Response to RN: “This patient’s hyperglycemia has resolved. Alert MD via Smartweb to change IV fluids to D5 and decrease insulin dose.**”**

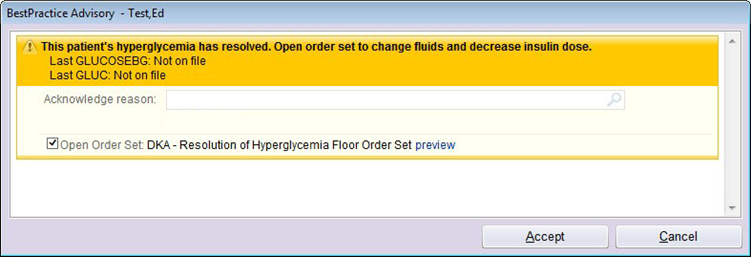
Screenshot of Nursing BPA



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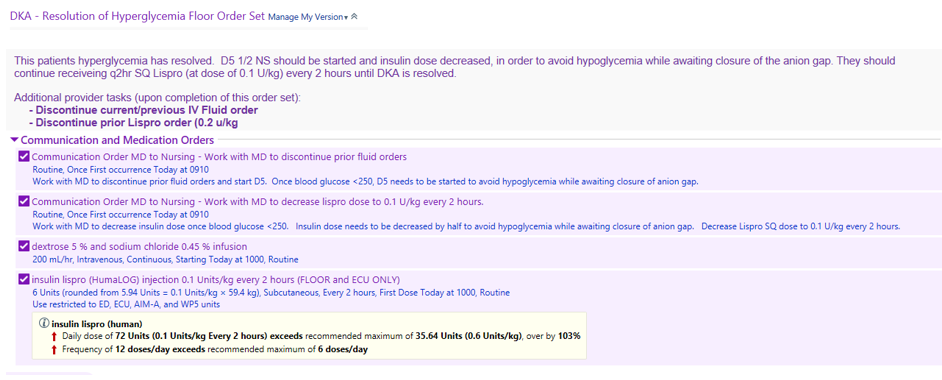
Response to MD: “This patient’s hyperglycemia has resolved. Open order set to change fluids and decrease insulin dose.**”**

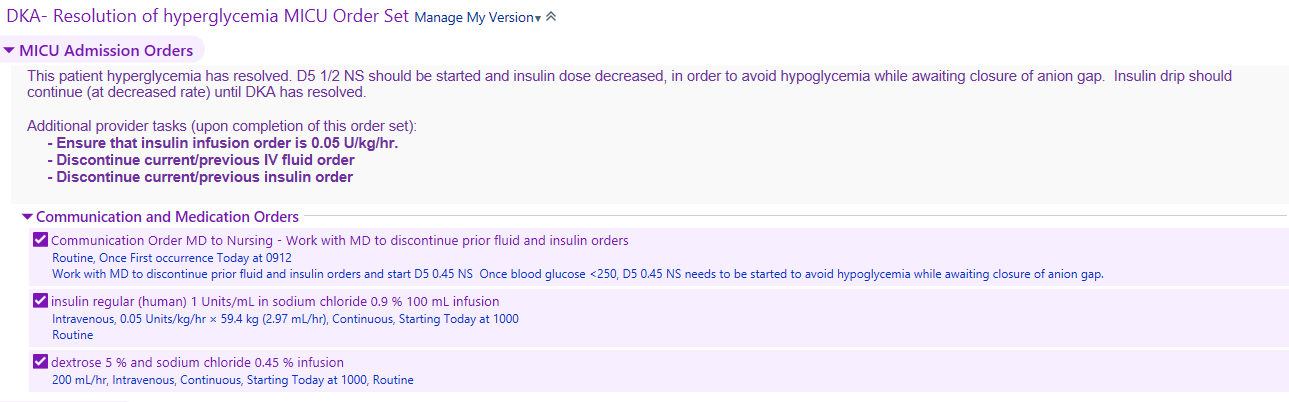
Screenshot of Provider BPA



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Screenshot of Provider Epic Order Set





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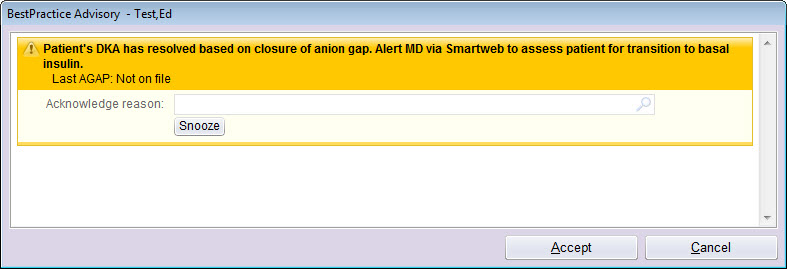
**BPA #4: Anion Gap Closure**

Trigger: First BMP (or CMP) with anion gap <12 (in patient with BPA #2 fired or DKA order set utilized)

Target: RN and MD

Response to RN: “Patient’s DKA has resolved based on closure of anion gap. Alert MD via Smartweb to assess patient for transition to basal insulin.”

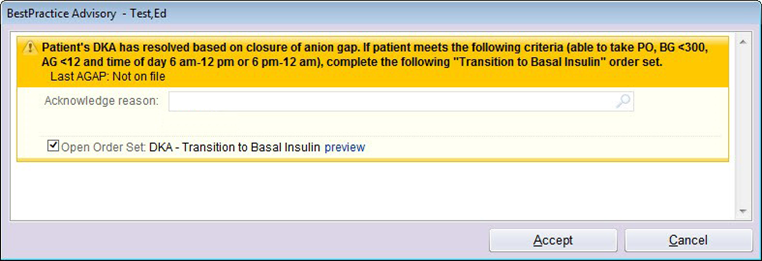
Screenshot of Nursing BPA



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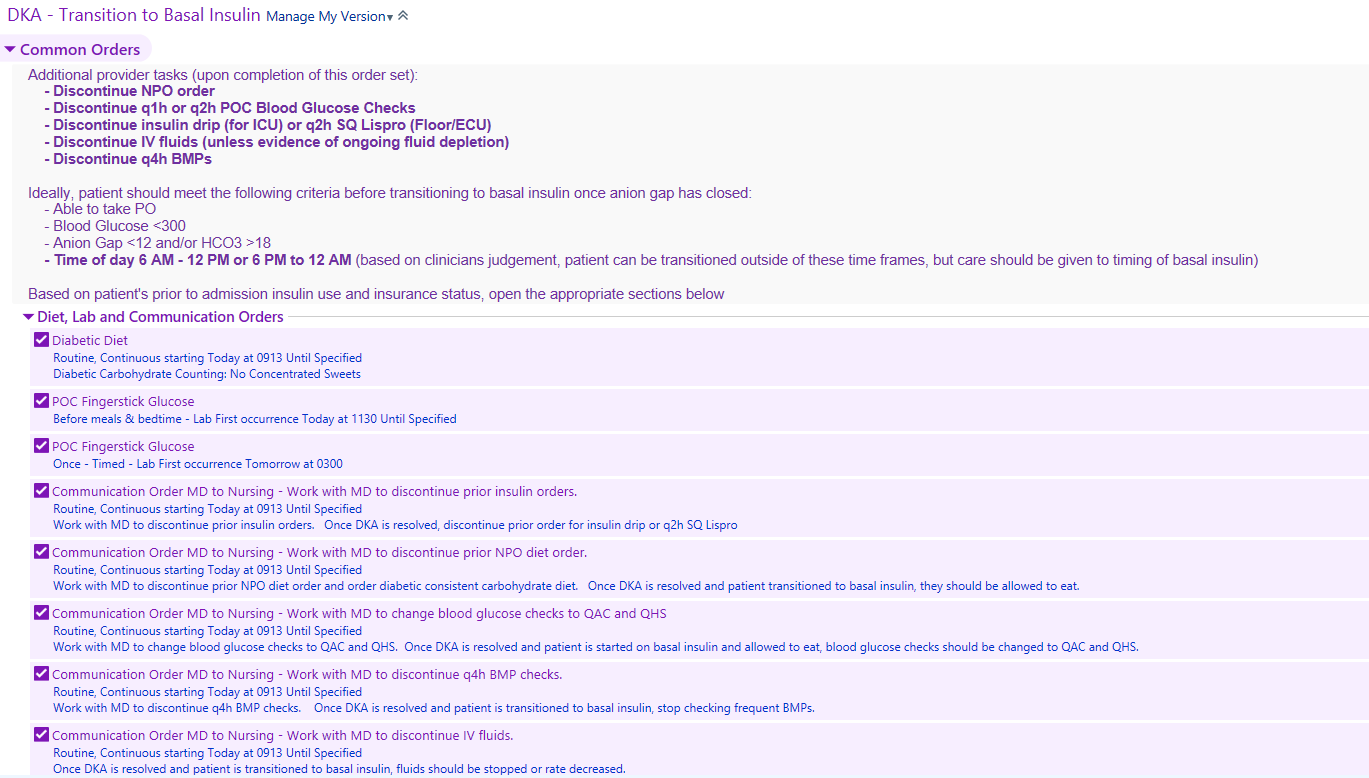
Response to MD: “Patient’s DKA has resolved based on closure of anion gap. If patient meets the following criteria (able to take PO, BG<300, AG<12 and time of day 6 am -12 pm or 6 pm - 12 am), complete the following “transition to Basal Insulin’ order set.”

Screenshot of Provider BPA

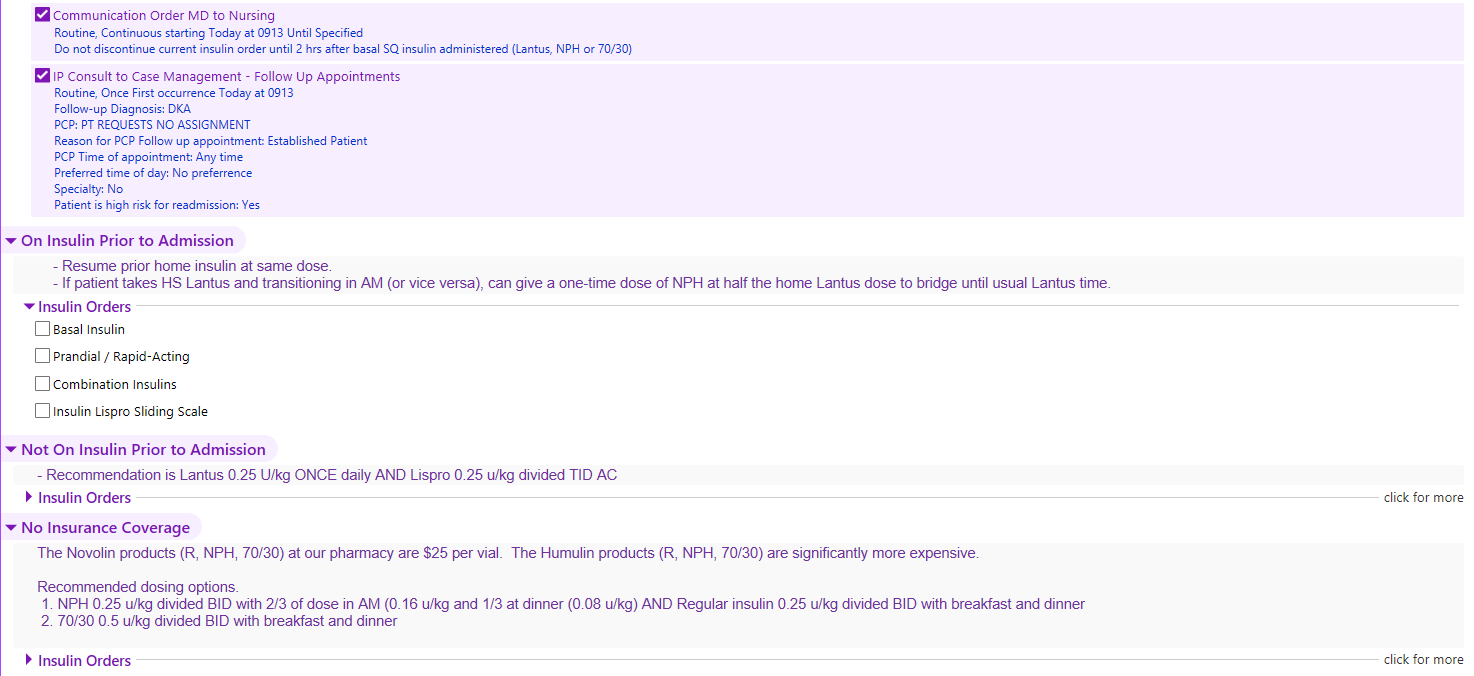


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Screenshot of Provider Epic Order Set



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