

DIABETES KETONE PATHWAY



Inclusion Criteria

- Known type 1 diabetes or combination type
- Age ≥ 5 years
- Urinary ketones present or beta-hydroxybutyrate (BHB) > 0.6 mmol/L

Exclusion Criteria

- DKA on insulin drip (please refer to [DKA Pathway](#))
- New onset diabetes

Small/Trace Ketones
(Urine < 40 ; BHB < 0.6 mmol/L)

- Continue regular insulin management

Moderate Urinary Ketones
(Urine ≥ 40 ; BHB 0.6-1.5 mmol/L)

Large Urinary Ketones
(Urine ≥ 80 ; BHB > 1.5 mmol/L)

Give additional rapid-acting insulin every 2 hours.

Determine insulin dose (carbs + correction) and multiply by 1.1 units

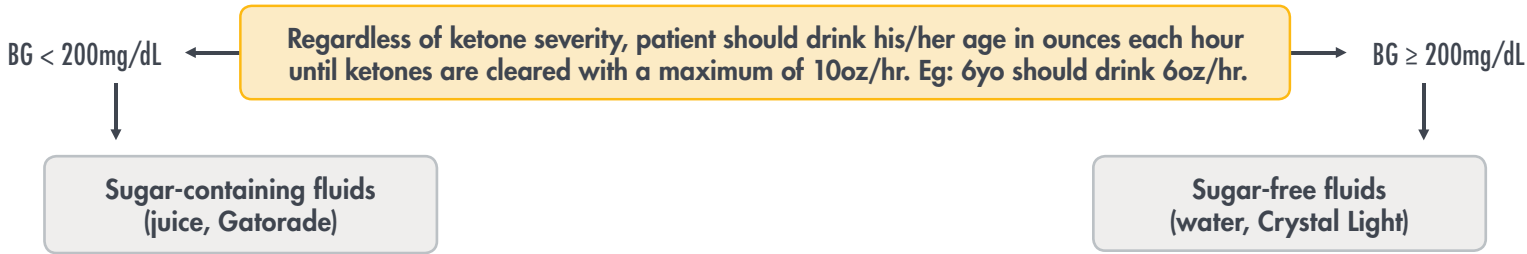
Determine insulin dose (carbs + correction) and multiply by 1.2 units

Reassessment

- Check BG every 2 hours
- Check BHB every 2 hours
- Check urine ketones with each void until negative if unable to obtain BHB
- Continue to give insulin every 2 hours

If ketones don't improve after 2 doses of insulin or patient develops symptoms of DKA (nausea, vomiting, rapid breathing, mental status change), obtain BHB and BMP to evaluate for DKA.

Once ketones are small, resume baseline insulin management



Disclaimer: Pathways and/or protocols are intended as a guide for practitioners and do not indicate an exclusive course of treatment nor serve as a standard of medical care. These pathways and/or protocols should be adapted by medical providers, when indicated, based on their professional judgment and taking into account individual patient and family circumstances.
Updated 8/12/2019