High Anion Gap Metabolic Acidosis

Anion gap = Na − (Cl + HCO3) · unmeasured acids consume bicarbonate

1. **Ketoacidosis**
   diabetic, alcoholic, starvation
2. **Lactic acidosis**
   shock, hypoxia, metformin
3. **Kidney failure**
   uremia
4. **Salicylates**
   aspirin
5. **Methanol**
   poisoning
6. **Ethylene glycol**
   poisoning

High gap
Acid is added

Normal gap
Bicarbonate is lost: diarrhea, renal tubular acidosis

Poisoning
Also calculate the osmolar gap

Diabetic ketoacidosis is the cause most often asked about