List the common causes of metabolic acidosis and respiratory acidosis, metabolic alkalosis and respiratory alkalosis

Metabolic acidosis

Bicarbonate loss or hydrogen gain:

- Bicarbonate loss through renal or GI tract (diarrhoea)
- Hydrogen increase through toxic substances and lactic acid
- This is compensated via hyperventilation, breathing off CO2

Respiratory acidosis

Respiratory acidosis can be caused by conditions and diseases that decreases the amount of CO2 expelled by the body (thinking resp. rate and depth)

- Gas exchange conditions
 - o COPD chronic obstructive pulmonary disease
 - CORD chronic obstructive respiratory disease
 - COAD chronic obstructive airway disease
 - o Pneumonia
- Inhibition of respiratory centres due to drug induced hypoventilation and opiates
- Muscle diseases such as myasthenia gravis and Guillain-Barre
- This is compensated through renal retention of bicarbonate and excretion \(\bar{\bar{b}} \) lotesale.co salts

Metabolic alkalosis

When there is too much H+ lost or the eis too much bicarbon te retained therefore the body becomes too alkali

Net loss of Harrom ECF √omiting

- Renal loss due to diuretics
- Retention of bicarbonate due to the excess administration of bicarbonate
- This is compensated through hypoventilation

Respiratory alkalosis

This is due to conditions where too much CO2 is being breathed off, or expelled

- Hyperventilation (emotional causes)
- Head trauma that increases resp. rate
- Excessive mechanical ventilation
- This is compensated through renal excretion of bicarbonate, or the retention of acid salts.