

ARTERIAL BLOOD GASES

INSTRUCTIONS - work clockwise around the table

1. Determine whether pH is low, normal or high and follow the corresponding row.
2. Decide whether CO_2 is low, normal or high and select the corresponding column in that row.
3. Look at HCO_3^- and follow line for low, normal or high to reach the answer.

RESPIRATORY ACIDOSIS

- abnormal CO_2 retention due to hypoventilation

EXAMPLES OF CAUSES

Lung disease, respiratory centre depression (drugs/disease), reduced respiratory muscle ability (nerve/muscle disorders), breath-holding

METABOLIC COMPENSATION

- 1) Chemical buffers take up H^+
- 2) Metabolic compensation: kidneys conserve filtered HCO_3^- , adding new HCO_3^- and excreting more H^+

SIGNS + SYMPTOMS

- Signs and symptoms associated with pathophysiology of the cause (e.g. wheeze may be present in a patient with chronic obstructive pulmonary disease, but is not a sign of respiratory acidosis itself)
- Depressed mental status

TREATMENT

Treat underlying cause and manage other symptoms of the underlying cause.

If necessary, use non-invasive or invasive methods of ventilation if required to raise respiratory rate and 'drive off' CO_2 .

Beware: Metabolic compensatory measures may be slow, so rapid correction of hypercapnia may result in a metabolic alkalosis.

RESPIRATORY ALKALOSIS

- excessive loss of CO_2 by hyperventilation

EXAMPLES OF CAUSES

Fever, anxiety, aspirin poisoning, high altitude.

COMPENSATION

- 1) Chemical buffers release H^+
- 2) Metabolic compensation: kidneys conserve H^+ and excrete more HCO_3^-

SIGNS

- Tachypnoea
- 'Burrheads' / confusion / seizures (due to vasoconstriction from raised CO_2)
- Signs of causative disease (e.g. wheeze in lung disease)

TREATMENT

Treat if pH > 7.5
If due to hyperventilation, reassurance and calming measures are effective, or simple measures such as breathing into a paper bag.

In ventilated patients, the ventilator rate can be turned down to reduce expulsion of CO_2 .

Correct underlying disorder as treatment is ineffective if the underlying pathology is not fixed.

KEY FACTS

- CO_2 : respiratory component; makes plasma acidic; able to respond quickly to changes in balance
- HCO_3^- : metabolic component; makes plasma alkaline; slow to compensate for changes in acid-base balance
- Blood buffers are limited, so acid-base balance is regulated by:
 - Exhalation of CO_2
 - Renal excretion of H^+
 - Metabolism of fatty and lactic acids
 - Replacement of HCO_3^-

		RESPIRATORY (CO_2 4.7 - 6 kPa)				
		High	Normal	Low		
pH (7.35 - 7.45)	High (Alkalosis)	Compensating Metabolic	Uncompensated Metabolic	Combined Metabolic and Respiratory	High	
		Repeat test		Uncompensated Respiratory	Normal	
				Compensating Respiratory	Low	
	Normal	Compensated Respiratory Alkalosis or Metabolic alkalosis	Repeat test			High
		All OK		Normal		
		Repeat test		Compensated Respiratory alkalosis or Metabolic alkalosis	Low	
	Low (Acidosis)	Compensating Respiratory	Repeat test			High
		Uncompensated Respiratory				Normal
		Combined Metabolic and Respiratory	Uncompensated Metabolic	Compensating Metabolic	Low	

High or low cause chronic obstructive pulmonary disease itself)

Normal

- Symptoms and
- Kussmaul's (low volume instead

(pH) normal 7.35 - 7.45

(pH) normal 7.35 - 7.45

BASE EXCESS

This is the amount of hydrogen ions that would need to be added to the blood to return its pH to 7.35

Base excess is a calculated figure, and is a measure of the factors that make up the metabolic side of acid-base balance.

The normal range for Base Excess is + or - 2

FURTHER READING

Students:

Cooper N. Acute care: Arterial blood gases. *staterepD* 2004;12:105-107

Professionals:

Williams A. Assessing and interpreting arterial blood gases and acid-base balance. *BMJ* 1998;317:1213

METABOLIC ACIDOSIS

- reduction in plasma HCO_3^-

EXAMPLES OF CAUSES

Severe diarrhoea, diabetes mellitus (keto acids), strenuous exercise (lactic acid), uremic acidosis

COMPENSATION

- 1) Buffers take up extra H^+
- 2) Respiratory compensation: lungs blow off CO_2 by increasing the respiratory rate
- 3) Kidneys excrete extra H^+ and conserve HCO_3^-

SIGNS

- Symptoms and signs of underlying cause
- Kussmaul's breathing (deep, slow breaths aiming to increase tidal volume instead of respiratory rate) or tachypnoea
 - Coma & hypotension (in acute, severe cases)

TREATMENT

Treat if pH < 7.2, or if there is impending respiratory failure

Can treat with IV sodium bicarbonate added to 5% dextrose. Treat volume overload with diuretics.

Other treatment options include: carbicarb, THAM, oral sodium bicarbonate, oral alkali for chronic metabolic acidosis.

Treat any associated renal tubular acidosis

METABOLIC ALKALOSIS

- increased HCO_3^- without changes in CO_2

EXAMPLES OF CAUSES

Vomiting (loss of HCl), loss of colonic secretions, alkaline drugs (inhibition of respiratory centre in the medulla)

COMPENSATION

- 1) Buffers release H^+
- 2) Respiratory compensation: reduced ventilation to retain CO_2
- 3) Kidneys conserve H^+ and excrete excess HCO_3^-

SIGNS

- Weakness, neuralgia
- Polyuria
- Hypocalcaemia (muscle spasms, paresthesia, perioral tingling)
- Altered mental status or seizures
- Hypertension

TREATMENT

Management of cause

Potassium chloride

IV hydrochloric acid if pH is < 7.35

Dialysis

Arterial Blood Gas Analysis Easy Learning Guides

**Doug Elliott, Leanne Aitken, Wendy
Chaboyer, Andrea Marshall**



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