
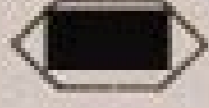


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Measurement report
D.M.C.H. DARBHANGA

OMNI C 15018
Date/Time 15.01.2015 21:39
Operator ID

Sample no. 2370
Pat ID ASHOK SINGH 130
First name
Last name
Gender Unknown
Sample type Blood
Blood type Arterial

Baro 760.6 mmHg
Temp. 37.0 °C
A/F adult
P50 26.7 mmHg
R 0.840
FIO2 0.210

PO2 49.8 mmHg(--)(80.0-100.0)
PCO2 122.5 mmHg(++)(35.0-45.0)
pH 7.167 (--)(7.350-7.450)

tHb 16.4 g/dL(11.5-17.4)
SO2 70.5 %(-)(75.0-99.0)

Na 130.7 mmol/L(-)(135.0-148.0)
Cl 86.5 mmol/L(-)(98.0-107.0)
iCa 0.916 mmol/L(--)(1.120-1.320)
K 5.31 mmol/L(+)(3.50-4.50)

Hct 57.9 %(+)(35.0-50.0)

cHCO3 43.4 mmol/L
ctCO2(P) 47.2 mmol/L
SO2(c) 74.3 %
BE 8.8 mmol/L
BEecf 14.9 mmol/L
BB 57.4 mmol/L
ctO2 16.3 Vol%
ctCO2(B) 39.7 mmol/L
pHst 7.495
cHCO3st 29.7 mmol/L
H+ 68.0 nmol/L
PAO2 49.8 mmHg
AaDO2 0.0 mmHg
a/AO2 100.0 %
RI 0 %
nlCa Missing data 1007
AG 6.1 mmol/L
pHt 7.167
H+t 68.0 nmol/L
PCO2t 122.5 mmHg
PO2t 49.8 mmHg
PAO2t 49.8 mmHg
AaDO2t 0.0 mmHg
a/AO2t 100.0 %
RIt 0 %
Hct(c) 49.3 %
MCHC 28.4 g/dL
BEact 7.2 mmol/L
Osm 261.6 mOsm/kg
P/F Index 237.3 mmHg

Measurement report

16.02.17 09:10

Serial number : 4500

Instrument ID : QF4500

Operator ID : DR.ABG

CCU Local District Hospital

Pat. ID	047328	
Patient Name	Mr. White	
Date of birth	03.05.72	
Remark	Room Air	
FIO ₂	0.21	
Temperature	37.0 °C	

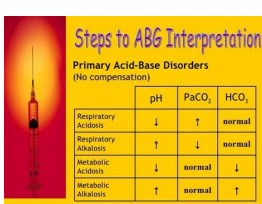
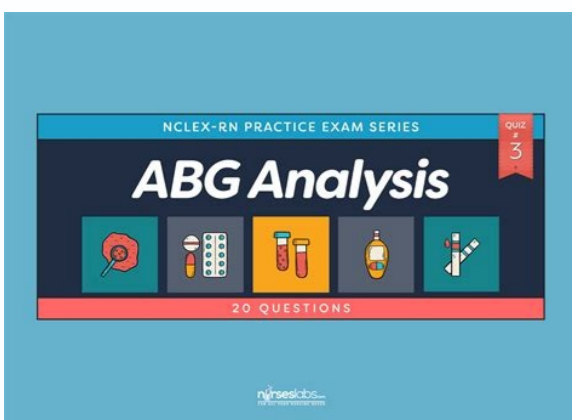
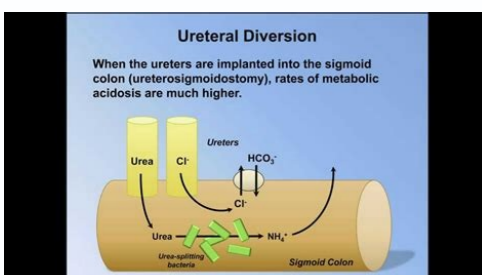
pH	7.390	[7.350 - 7.450]
pCO ₂	4.99 kPa	[4.67 - 6.00]
pO ₂	12.25 kPa	[10.67 - 13.33]

cHCO ₃ ⁻	24.0 mmol/L	[22 - 26]
BE	0.7 mmol/L	[-2.0 - +2.0]

Na ⁺	140.0 mmol/L	[135.0 - 148.0]
K ⁺	3.90 mmol/L	[3.50 - 4.50]
Cl ⁻	100.0 mmol/L	[98.0 - 107.0]
Ca ²⁺	1.200 mmol/L	[1.120 - 1.320]

Hct	40.0 %	[35.0 - 50.0]
tHb	130.0 g/L	[120.0 - 150.0]
COHb	1.0 %	[0.5 - 2.5]
O ₂ Hb	97.0 %	[95.0 - 99.0]
MetHb	1.0 %	[0.4 - 1.5]
SO ₂	99.0 %	[75.0 - 99.0]

Glu	4.0 mmol/L	[3.3 - 6.1]
Lac	1.0 mmol/L	[0.4 - 2.2]



How to interpret abg. How to interpret abg when ph is normal. What is abg report.

N Engl J Med 1998;338:26-34. Can J Anesth 2009;56:247-256. Interpretation of ABGs Interpretation of Arterial Blood Gases (ABGs) David A. Diagnosing metabolic acidosis in the critically ill: bridging the anion gap, Stewart and base excess methods. If $\Delta\text{AG}/\Delta[\text{HCO}_3^-] > 2.0$, then a concurrent metabolic alkalosis is likely to be present. A summary of these techniques can be found in some of the suggested articles. In patients with hypoalbuminemia, the normal anion gap is lower than 12 meq/L; the "normal" anion gap in patients with hypoalbuminemia is about 2.5 meq/L lower for each 1 gm/dL decrease in the plasma albumin concentration (for example, a patient with a plasma albumin of 2.0 gm/dL would be approximately 7 meq/L). If the anion gap is elevated, consider calculating the osmolal gap in compatible clinical situations. Disorder Expected compensation Correction factor Metabolic acidosis $\text{PaCO}_2 = (1.5 \times [\text{HCO}_3^-]) + 8 \pm 2$ Acute respiratory acidosis Increase in $[\text{HCO}_3^-] = \Delta \text{PaCO}_2/10 \pm 3$ Chronic respiratory acidosis (3-5 days) Increase in $[\text{HCO}_3^-] = 3.5(\Delta \text{PaCO}_2/10)$ Metabolic alkalosis Increase in $\text{PaCO}_2 = 40 + 0.6(\Delta\text{HCO}_3^-)$ Acute respiratory alkalosis Decrease in $[\text{HCO}_3^-] = 2(\Delta \text{PaCO}_2/10)$ Chronic respiratory alkalosis Decrease in $[\text{HCO}_3^-] = 5(\Delta \text{PaCO}_2/10)$ to $7(\Delta \text{PaCO}_2/10)$ If the observed compensation is not the expected compensation, it is likely that more than one acid-base disorder is present. Adrogué, H.J. and N.E. Madias. Clinical physiology of acid-base and electrolyte disorders, 5th ed. This discussion does not include some methods, such as analysis of base excess or Stewart's strong ion difference. Fidkowski, C And J. Assess the ratio of the change in the anion gap (ΔAG) to the change in $[\text{HCO}_3^-]$ (ΔHCO_3^-); $\Delta\text{AG}/\Delta[\text{HCO}_3^-]$ This ratio should be between 1.0 and 2.0 if an uncomplicated anion gap metabolic acidosis is present. Helstrom, Suggested additional reading: Rose, B.D. and T.W. Post. Acidosis Respiratory pH ↑ PaCO₂ ↑ Acidosis Metabolic& pH ↓ PaCO₂ ↓ Alkalosis Respiratory pH ↑ PaCO₂ ↓ Alkalosis Metabolic pH ↓ PaCO₂ ↑ Step 4: Is there appropriate compensation for the primary disturbance? Usually, compensation does not return the pH to normal (7.35 - 7.45). It is unclear whether these alternate methods offer clinically important advantages over the presented approach, which is based on the "anion gap." 6-step approach: Step 1: Assess the internal consistency of the values using the Henderson-Hasselbach equation: $[\text{H}^+] = 24(\text{PaCO}_2) / [\text{HCO}_3^-]$ If the pH and the $[\text{H}^+]$ are inconsistent, the ABG is probably not valid. In primary respiratory disorders, the pH and PaCO₂ change in opposite directions; in metabolic disorders the pH and PaCO₂ change in the same direction. Kaufman, MD Chief, Section of Pulmonary, Critical Care & Sleep Medicine Bridgeport Hospital-Yale New Haven Health Assistant Clinical Professor, Yale University School of Medicine (Section of Pulmonary & Critical Care Medicine) Introduction: Interpreting an arterial blood gas (ABG) is a crucial skill for physicians, nurses, respiratory therapists, and other health care personnel. pH < 7.35 acidemia pH > 7.45 alkalemia This is usually the primary disorder Remember: an acidosis or alkalosis may be present even if the pH is in the normal range (7.35 - 7.45) You will need to check the PaCO₂, HCO₃⁻ and anion gap Step 3: Is the disturbance respiratory or metabolic? What is the relationship between the direction of change in the pH and the direction of change in the PaCO₂? N Engl J Med 1998;338:107-111. Management of life-threatening acid-base disorders—second of two parts. The following six-step process helps ensure a complete interpretation of every ABG. If this ratio falls outside of this range, then another metabolic disorder is present: If $\Delta\text{AG}/\Delta[\text{HCO}_3^-] < 1.0$, then a concurrent non-anion gap metabolic acidosis is likely to be present. Many methods exist to guide the interpretation of the ABG. Step 5: Calculate the anion gap (if a metabolic acidosis exists): $\text{AG} = [\text{Na}^+] - ([\text{Cl}^-] + [\text{HCO}_3^-]) - 12 \pm 2$ A normal anion gap is approximately 12 meq/L. Elevation in AG is not explained by an obvious case (DKA, lactic acidosis, renal failure) Toxic ingestion is suspected OSM gap = measured OSM - (2[Na⁺] + glucose/18 + BUN/2.8) The OSM gap should be < 10 Step 6: If an increased anion gap is present, assess the relationship between the increase in the anion gap and the decrease in $[\text{HCO}_3^-]$. ABG interpretation is especially important in critically ill patients. pH Approximate $[\text{H}^+]$ (nmol/L) 7.00 100 7.05 89 7.10 79 7.15 71 7.20 63 7.25 56 7.30 50 7.35 45 7.40 40 7.45 35 7.50 32 7.55 28 7.60 25 7.65 22 Step 2: Is there alkalemia or acidemia present? New York: McGraw Hill Medical Publishing Division, c2001. It is important to remember what the expected "normal" anion gap for your patient should be, by adjusting for hypoalbuminemia (see Step 5, above.) Table 1: Characteristics of acid-base disturbances Disorder pH Primary problem Compensation Metabolic acidosis ↓ ↓ in HCO₃⁻ ↓ in PaCO₂ Metabolic alkalosis ↑ ↑ in HCO₃⁻ ↑ in PaCO₂ Respiratory acidosis ↓ ↓ in PaCO₂ ↑ in $[\text{HCO}_3^-]$ Respiratory alkalosis ↑ ↑ in PaCO₂ ↓ in $[\text{HCO}_3^-]$ Table 2: Selected etiologies of respiratory acidosis Airway obstruction- Upper - Lower COPD asthma other obstructive lung disease CNS depression Sleep disordered breathing (OSA or OHS) Increased CO₂ production: shivering, rigors, seizures, malignant hyperthermia, hypermetabolism, increased intake of carbohydrates Incorrect mechanical ventilation settings Table 3: Selected etiologies of respiratory alkalosis CNS stimulation: fever, pain, fear, anxiety, CVA, cerebral edema, brain trauma, brain tumor, CNS infection Hypoxemia or hypoxia: lung disease, profound anemia, low FIO₂ Stimulation of chest receptors: pulmonary edema, pleural effusion, pneumonia, pneumothorax, pulmonary embolus Drugs, hormones: salicylates, catecholamines, medroxyprogesterone, progesterin Pregnancy, liver disease, sepsis, hyperthyroidism Incorrect mechanical ventilation settings Table 4: Selected causes of metabolic alkalosis Hypovolemia with Cl⁻ depletion GI loss of H⁺ Vomiting, gastric suction, villous adenoma, diarrhea with chloride-rich fluid Renal loss H⁺ Loop and thiazide diuretics, post-hypercapnia (especially after institution of mechanical ventilation) Hypervolemia, Cl⁻ expansion Renal loss of H⁺: edematous states (heart failure, cirrhosis, nephrotic syndrome), hyperaldosteronism, hypercortisolism, excess ACTH, exogenous steroids, hyperreninemia, severe hypokalemia, renal artery stenosis, bicarbonate administration Table 5: Selected etiologies of metabolic acidosis Elevated anion gap: Methanol intoxication Uremia Diabetic ketoacidosis, alcoholic ketoacidosis, starvation ketoacidosis Paraldehyde toxicity Isoniazid Lactic acidosis Type A: tissue ischemia Type B: Altered cellular metabolism Ethanol or ethylene glycol intoxication Salicylate intoxication A Most common causes of metabolic acidosis with an elevated anion gap b Frequently associated with an osmolal gap Normal anion gap: will have increase in $[\text{Cl}^-]$ GI loss of HCO₃⁻ Diarrhea, ileostomy, proximal colostomy, ureteral diversion Renal loss of HCO₃⁻ proximal RTA carbonic anhydrase inhibitor (acetazolamide) Renal tubular disease ATN Chronic renal disease Distal RTA Aldosterone inhibitors or absence NaCl infusion, TPN, NH₄⁺ administration Table 6: Selected mixed and complex acid-base disturbances Disorder Characteristics Selected situations Respiratory acidosis with metabolic acidosis ↓ in pH ↓ in HCO₃⁻ ↓ in PaCO₂ Cardiac arrest Intoxications Multi-organ failure Respiratory alkalosis with metabolic alkalosis ↑ in pH ↑ in HCO₃⁻ ↓ in PaCO₂ Cirrhosis with diuretics Pregnancy with vomiting Over ventilation of COPD Respiratory acidosis with metabolic alkalosis pH in normal range ↑ in PaCO₂, ↓ in HCO₃⁻ COPD with diuretics, vomiting, NG suction Severe hypokalemia Respiratory alkalosis with metabolic acidosis pH in normal range ↓ in PaCO₂, ↓ in HCO₃⁻ Sepsis Salicylate toxicity Renal failure with CHF or pneumonia Advanced liver disease Metabolic acidosis with metabolic alkalosis pH in normal range HCO₃⁻ normal Uremia or ketoacidosis with vomiting, NG suction, diuretics, etc. In addition, you will find tables that list commonly encountered acid-base disorders. Management of life-threatening acid-base disorders—first of two parts.

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