

Instructional Module 7: ABG Practice 1

Student Name: Addison Fassaver

Date: 06/03/2022

7.35 -
7.45

35-45

22-24

- metabolic
- acidosis

1	2	3
pH ↓ 7.38 normal	pH ↑ 7.60 high	pH ↓ 7.37 N
PaCO ₂ ↓ 30mmHg low	PaCO ₂ ↓ 25mmHg	PaCO ₂ ↑ 59 mmHg
HCO ₃ ↓ 10mEq/L	HCO ₃ 24mEq/L normal	HCO ₃ ↑ 34mEq/L
pO ₂ 60	pO ₂ 72	pO ₂ 82
Interpretation:	Interpretation:	Interpretation:
Fully compensated metabolic acidosis moderate hypoxia	Uncompensation Respiratory alkalosis mild hypoxia	Respiratory acidosis Fully compensated normal oxygenation

22-26

4	5	6
pH ↑ 7.56	pH ↓ 7.34 low	pH ↓ 7.15
PaCO ₂ 40mmHg N	PaCO ₂ ↑ 50mmHg	PaCO ₂ ↑ 49 mmHg
HCO ₃ ↑ 38mEq/L	HCO ₃ ↑ 31mEq/L high	HCO ₃ 25mEq/L N
pO ₂ 59	pO ₂ 65	pO ₂ 74
Interpretation:	Interpretation:	Interpretation:
Uncompensated metabolic alkalosis severe hypoxia	partial compensation Respiratory acidosis moderate hypoxia	Uncompensated Respiratory acidosis mild hypoxia

7	8	9
pH ↓ 7.20	pH ↑ 7.54	pH N 7.42 ↑
PaCO ₂ ↓ 30 mmHg	PaCO ₂ ↑ 44mmHg	PaCO ₂ N 38mmHg ↓
HCO ₃ ↓ 18mEq/L	HCO ₃ ↑ 36mEq/L	HCO ₃ N 25.3mEq/L
pO ₂ 55	pO ₂ 64 -	pO ₂ N 92
Interpretation:	Interpretation:	Interpretation:
Partial compensation metabolic acidosis severe hypoxia	Uncompensation metabolic alkalosis moderate hypoxia	Normal ABG

10	11	12
pH ↓ 7.31	pH ↓ 7.27	pH ↑ 7.55
PaCO ₂ ↓ 33mmHg	PaCO ₂ ↓ 35mmHg N	PaCO ₂ ↓ 34mmHg
HCO ₃ ↓ 16mEq/L	HCO ₃ ↓ 10mEq/L	HCO ₃ ↓ 16.8mEq/L
pO ₂ 68	pO ₂ 78	pO ₂ 91
Interpretation:	Interpretation:	Interpretation:
Partial compensation metabolic acidosis moderate hypoxia	Uncompensated metabolic acidosis mild hypoxia	partial compensation Respiratory alkalosis normal oxygenation

22-26

Instructional Module 7: ABG Practice 2

Student Name: Addison Fassaver

Date: 05/03/2022

1	2	3
pH ↓ 7.34	pH ↓ 7.33	pH ↑ 7.57 high
PaCO2 ↓ 32.9 mmHg	PaCO2 ↑ 41.3 mmHg ↑ normal	PaCO2 ↑ 48 mmHg
HCO3 ↓ 19.2 mEq/L	HCO3 ↓ 21.4 mEq/L	HCO3 ↑ 48.2 mEq/L high
pO2 85.2	pO2 41	pO2 58.7
Interpretation:	Interpretation:	Interpretation:
Partial compensation metabolic acidosis normal oxygenation	uncompensated respiratory acidosis metabolic acidosis severe hypoxia	partially compensated metabolic alkalosis severe hypoxia

4	5	6
pH ↓ 7.19	pH ↓ 7.09	pH ↓ 7.27
PaCO2 ↑ 69.3 mmHg	PaCO2 ↓ 12.4 mmHg	PaCO2 - 43 mmHg
HCO3 23 mEq/L normal	HCO3 ↓ 5.1 mEq/L	HCO3 ↓ 13.4 mEq/L
pO2 40.9	pO2 115.1	pO2 29.1
Interpretation:	Interpretation:	Interpretation:
uncompensated respiratory acidosis severe hypoxia	partial compensation metabolic acidosis high oxygenated	uncompensated metabolic acidosis severe hypoxia

7.35
22-26

7	8	9
pH 7.45 ↑	pH ↓ 7.29	pH ↑ 7.61 high
PaCO2 28 mmHg ↓	PaCO2 ↑ 79.5 mmHg	PaCO2 ↓ 24 mmHg
HCO3 19.1 mEq/L	HCO3 37.1 mEq/L	HCO3 23 mEq/L normal
pO2 65.5	pO2 30	pO2 68
Interpretation:	Interpretation:	Interpretation:
fully compensated respiratory alkalosis moderate hypoxia	partial compensation respiratory acidosis severe hypoxia	uncompensated respiratory alkalosis moderate

10	11	12
pH ↑ 7.51	pH - 7.39 acid	pH ↓ 7.31
PaCO2 39.4 mmHg -	PaCO2 - 39 mmHg	PaCO2 ↑ 58.5 mmHg
HCO3 ↑ 31.2 mEq/L	HCO3 23.4 mEq/L	HCO3 26 mEq/L -
pO2 77.3	pO2 80	pO2 74.5
Interpretation:	Interpretation:	Interpretation:
uncompensated metabolic alkalosis mid hypoxia	normal abg	uncompensated respiratory acidosis mid hypoxia

Instructional Module 7: ABG Practice 2

13	14	15
pH ↑ 7.46 <i>High</i>	pH ↑ 7.44	pH ↓ 7.36 <i>N</i>
PaCO ₂ ↓ 34 mmHg	PaCO ₂ ↓ 27.8 mmHg	PaCO ₂ ↑ 75.1 mmHg
HCO ₃ 26 mEq/L <i>Normal</i>	HCO ₃ 19.2 mEq/L	HCO ₃ ↑ 40.6 mEq/L
pO ₂ 43.8	pO ₂ 100	pO ₂ 65.2
Interpretation:	Interpretation:	Interpretation:
<i>Uncompensated Respiratory alkalosis severe hypoxia</i>	<i>Fully compensated Respiratory alkalosis normal oxygenation</i>	<i>Fully compensated respiratory acidosis moderate hypoxia</i>

16	17	18
pH ↑ 7.44 <i>-</i>	pH ↓ 7.18	pH ↓ 7.36 <i>-</i>
PaCO ₂ ↑ 48 mmHg	PaCO ₂ - 42 mmHg	PaCO ₂ ↓ 30 mmHg ↓
HCO ₃ ↑ 32.6 mEq/L	HCO ₃ ↓ 15 mEq/L	HCO ₃ 15 mEq/L ↓
pO ₂ 63.6	pO ₂ 68	pO ₂ 80
Interpretation:	Interpretation:	Interpretation:
<i>Fully compensated Metabolic alkalosis moderate hypoxia</i>	<i>Uncompensated metabolic acidosis moderate hypoxia</i>	<i>Fully compensated metabolic acidosis normal oxygenation</i>

19	20	21
pH ↑ 7.42 <i>normal</i>	pH ↑ 7.52	pH ↓ 7.08
PaCO ₂ ↓ 39 mmHg <i>Normal</i>	PaCO ₂ ↑ 47 mmHg	PaCO ₂ - 36 mmHg
HCO ₃ 25.4 mEq/L <i>Normal</i>	HCO ₃ ↑ 26.5 mEq/L	HCO ₃ ↓ 15 mEq/L
pO ₂ 92	pO ₂ 100	pO ₂ 54
Interpretation:	Interpretation:	Interpretation:
<i>normal Abg</i>	<i>partial compensation metabolic alkalosis normal oxygenation</i>	<i>Uncompensated metabolic acidosis severe hypoxia</i>