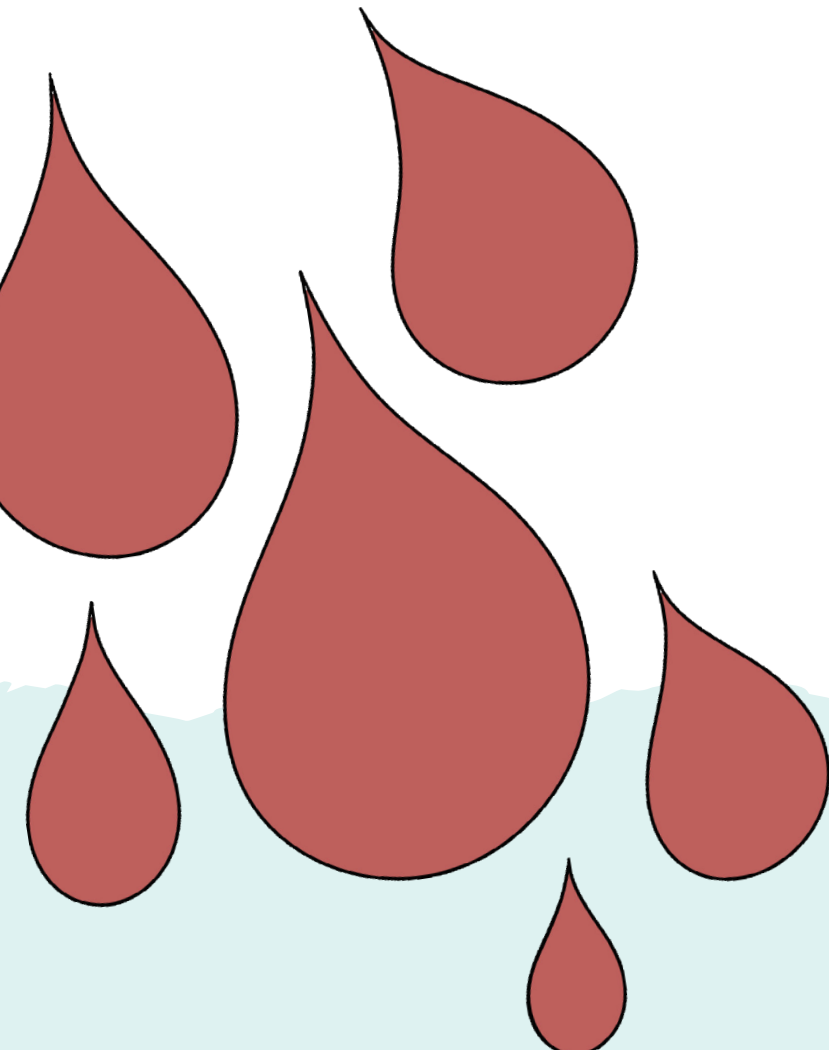




ABG

PRACTICE QUESTIONS

for Nursing Students



ARTERIAL BLOOD GASES (ABGs)

Practice Questions



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with nursing school?



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TIC-TAC-TOE METHOD



Use the tic-tac-toe method for questions 1-6

1

pH	7.28	
P _a CO ₂	47	
HCO ₃	24	

ACID	NORMAL	BASE

Is the pH in range? ☐ YES ☐ NO

Is the CO₂ in range? ☐ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☐ NO

☐ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

FINAL ANSWER:

pH	7.28	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	47	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	24	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

2

pH	7.3	
P _a CO ₂	48	
HCO ₃	29	

ACID	NORMAL	BASE

Is the pH in range? ☐ YES ☐ NO

Is the CO₂ in range? ☐ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☐ NO

☐ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

FINAL ANSWER:

pH	7.3	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	48	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	29	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

3

pH	7.49	
P _a CO ₂	33	
HCO ₃	24	

ACID	NORMAL	BASE

Is the pH in range? ☐ YES ☐ NO

Is the CO₂ in range? ☐ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☐ NO

☐ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

FINAL ANSWER:

pH	7.49	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	33	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	24	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

TIC-TAC-TOE METHOD



Use the tic-tac-toe method for questions 1-6

4

pH	7.48	
P _a CO ₂	31	
HCO ₃	20	

ACID	NORMAL	BASE

Is the pH in range? ☐ YES ☐ NO

Is the CO₂ in range? ☐ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☐ NO

☐ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

pH	7.48	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	31	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	20	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

5

pH	7.32	
P _a CO ₂	40	
HCO ₃	16	

ACID	NORMAL	BASE

Is the pH in range? ☐ YES ☐ NO

Is the CO₂ in range? ☐ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☐ NO

☐ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

pH	7.32	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	40	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	16	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

6

pH	7.34	
P _a CO ₂	47	
HCO ₃	31	

ACID	NORMAL	BASE

Is the pH in range? ☐ YES ☐ NO

Is the CO₂ in range? ☐ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☐ NO

☐ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

pH	7.34	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	47	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	31	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

TIC-TAC-TOE METHOD

ANSWER
KEY



1

pH	7.28	↓
P _a CO ₂	47	↑
HCO ₃	24	NORMAL

ACID	NORMAL	BASE
pH	HCO ₃	
P _a CO ₂		

Is the pH in range? ☐ YES ☒ NO

Is the CO₂ in range? ☐ YES ☒ NO

Is the HCO₃ in range? ☒ YES ☐ NO

☒ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

FINAL ANSWER:

**UNCOMPENSATED
RESPIRATORY ACIDOSIS**

★ pH out of range, but HCO₃ in range means uncompensated

pH	7.28	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	47	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	24	☐ ACIDIC ☐ ALKALOTIC ☒ NORMAL

2

pH	7.3	↓
P _a CO ₂	48	↑
HCO ₃	29	↑

ACID	NORMAL	BASE
pH		HCO ₃
P _a CO ₂		

Is the pH in range? ☐ YES ☒ NO

Is the CO₂ in range? ☐ YES ☒ NO

Is the HCO₃ in range? ☐ YES ☒ NO

☐ UNCOMPENSATED

☒ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

FINAL ANSWER:

**PARTIALLY COMPENSATED
RESPIRATORY ACIDOSIS**

★ All three (pH, P_aCO₂ & HCO₃) out of range means partially compensated

pH	7.3	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	48	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	29	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL

3

pH	7.49	↑
P _a CO ₂	33	↓
HCO ₃	24	NORMAL

ACID	NORMAL	BASE
	HCO ₃	pH
		P _a CO ₂

Is the pH in range? ☐ YES ☒ NO

Is the CO₂ in range? ☐ YES ☒ NO

Is the HCO₃ in range? ☒ YES ☐ NO

☒ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

FINAL ANSWER:

**UNCOMPENSATED
RESPIRATORY ALKALOSIS**

★ pH out of range but HCO₃ in range means uncompensated

pH	7.49	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL
P _a CO ₂	33	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL
HCO ₃	24	☐ ACIDIC ☐ ALKALOTIC ☒ NORMAL

TIC-TAC-TOE METHOD

ANSWER
KEY



4

pH	7.48	↑
PaCO ₂	31	↓
HCO ₃	20	↓

ACID	NORMAL	BASE
HCO ₃		pH
		PaCO ₂

Is the pH in range? ☐ YES ☒ NO

Is the CO₂ in range? ☐ YES ☒ NO

Is the HCO₃ in range? ☐ YES ☒ NO

- ☐ UNCOMPENSATED
- ☒ PARTIALLY COMPENSATED
- ☐ FULLY COMPENSATED

pH	7.48	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL
PaCO ₂	31	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL
HCO ₃	20	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

PARTIALLY COMPENSATED
RESPIRATORY ALKALOSIS

★ All three (pH, PaCO₂ & HCO₃) out of range means partially compensated

5

pH	7.32	↓
PaCO ₂	40	NORMAL
HCO ₃	16	↓

ACID	NORMAL	BASE
pH	PaCO ₂	
HCO ₃		

Is the pH in range? ☐ YES ☒ NO

Is the CO₂ in range? ☒ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☒ NO

- ☒ UNCOMPENSATED
- ☐ PARTIALLY COMPENSATED
- ☐ FULLY COMPENSATED

pH	7.32	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
PaCO ₂	40	☐ ACIDIC ☐ ALKALOTIC ☒ NORMAL
HCO ₃	16	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

UNCOMPENSATED
METABOLIC ACIDOSIS

★ pH out of range but PaCO₂ in range means uncompensated

6

pH	7.34	↓
PaCO ₂	47	↑
HCO ₃	31	↑

ACID	NORMAL	BASE
pH		HCO ₃
PaCO ₂		

Is the pH in range? ☐ YES ☒ NO

Is the CO₂ in range? ☐ YES ☒ NO

Is the HCO₃ in range? ☐ YES ☒ NO

- ☐ UNCOMPENSATED
- ☒ PARTIALLY COMPENSATED
- ☐ FULLY COMPENSATED

pH	7.34	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
PaCO ₂	47	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	31	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

PARTIALLY COMPENSATED
RESPIRATORY ACIDOSIS

★ All three (pH, PaCO₂ & HCO₃) out of range means partially compensated

ROME METHOD



Use the rome method for questions 7-12

7

pH	7.35	
PaCO ₂	46	
HCO ₃	30	

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

Is the pH in range? ☐ YES ☐ NO

Is the CO₂ in range? ☐ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☐ NO

☐ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

pH	7.35	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
PaCO ₂	46	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	30	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

8

pH	7.45	
PaCO ₂	30	
HCO ₃	19	

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

Is the pH in range? ☐ YES ☐ NO

Is the CO₂ in range? ☐ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☐ NO

☐ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

pH	7.45	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
PaCO ₂	30	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	19	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

9

pH	7.31	
PaCO ₂	30	
HCO ₃	18	

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

Is the pH in range? ☐ YES ☐ NO

Is the CO₂ in range? ☐ YES ☐ NO

Is the HCO₃ in range? ☐ YES ☐ NO

☐ UNCOMPENSATED

☐ PARTIALLY COMPENSATED

☐ FULLY COMPENSATED

pH	7.31	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
PaCO ₂	30	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	18	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

ROME METHOD



Use the rome method for questions 7-12

10

pH	7.35	
P _a CO ₂	30	
HCO ₃	20	

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

Is the pH in range? ☐ YES ☐ NO
 Is the CO₂ in range? ☐ YES ☐ NO
 Is the HCO₃ in range? ☐ YES ☐ NO

- ☐ UNCOMPENSATED
☐ PARTIALLY COMPENSATED
☐ FULLY COMPENSATED

pH	7.35	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	30	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	20	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

11

pH	7.44	
P _a CO ₂	49	
HCO ₃	28	

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

Is the pH in range? ☐ YES ☐ NO
 Is the CO₂ in range? ☐ YES ☐ NO
 Is the HCO₃ in range? ☐ YES ☐ NO

- ☐ UNCOMPENSATED
☐ PARTIALLY COMPENSATED
☐ FULLY COMPENSATED

pH	7.44	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	49	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	28	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

12

pH	7.5	
P _a CO ₂	50	
HCO ₃	28	

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

Is the pH in range? ☐ YES ☐ NO
 Is the CO₂ in range? ☐ YES ☐ NO
 Is the HCO₃ in range? ☐ YES ☐ NO

- ☐ UNCOMPENSATED
☐ PARTIALLY COMPENSATED
☐ FULLY COMPENSATED

pH	7.5	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
P _a CO ₂	50	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	28	☐ ACIDIC ☐ ALKALOTIC ☐ NORMAL

FINAL ANSWER:

ROME METHOD

ANSWER
KEY



7

pH	7.35	NORMAL
PaCO ₂	46	↑
HCO ₃	30	↑

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

★ pH is normal, but at the acidic end of the range!

Is the pH in range? ☒ YES ☐ NO
 Is the CO₂ in range? ☐ YES ☒ NO
 Is the HCO₃ in range? ☐ YES ☒ NO

☐ UNCOMPENSATED
☐ PARTIALLY COMPENSATED
☒ FULLY COMPENSATED

FINAL ANSWER:

FULLY COMPENSATED
RESPIRATORY ACIDOSIS

pH	7.35	☐ ACIDIC ☐ ALKALOTIC ☒ NORMAL
PaCO ₂	46	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	30	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL

8

pH	7.45	NORMAL
PaCO ₂	30	↓
HCO ₃	19	↓

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

★ pH is normal, but at the alkalotic end of the range!

Is the pH in range? ☒ YES ☐ NO
 Is the CO₂ in range? ☐ YES ☒ NO
 Is the HCO₃ in range? ☐ YES ☒ NO

☐ UNCOMPENSATED
☐ PARTIALLY COMPENSATED
☒ FULLY COMPENSATED

FINAL ANSWER:

FULLY COMPENSATED
RESPIRATORY ALKALOSIS

pH	7.45	☐ ACIDIC ☐ ALKALOTIC ☒ NORMAL
PaCO ₂	30	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL
HCO ₃	19	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL

9

pH	7.31	↓
PaCO ₂	30	↓
HCO ₃	18	↓

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

Is the pH in range? ☐ YES ☒ NO
 Is the CO₂ in range? ☐ YES ☒ NO
 Is the HCO₃ in range? ☐ YES ☒ NO

☐ UNCOMPENSATED
☒ PARTIALLY COMPENSATED
☐ FULLY COMPENSATED

FINAL ANSWER:

PARTIALLY COMPENSATED
METABOLIC ACIDOSIS

pH	7.31	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
PaCO ₂	30	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL
HCO ₃	18	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL

★ All three (pH, PaCO₂ & HCO₃) out of range means partially compensated

ROME METHOD

ANSWER
KEY



10

pH	7.35	NORMAL
PaCO ₂	30	↓
HCO ₃	20	↓

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

★ pH is normal, but at the acidic end of the range!

Is the pH in range? ☒ YES ☐ NO
 Is the CO₂ in range? ☐ YES ☒ NO
 Is the HCO₃ in range? ☐ YES ☒ NO

☐ UNCOMPENSATED
☐ PARTIALLY COMPENSATED
☒ FULLY COMPENSATED

FINAL ANSWER:

FULLY COMPENSATED
METABOLIC ACIDOSIS

pH	7.35	☐ ACIDIC ☐ ALKALOTIC ☒ NORMAL
PaCO ₂	30	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL
HCO ₃	20	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL

11

pH	7.44	NORMAL
PaCO ₂	49	↑
HCO ₃	28	↑

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

★ pH is normal, but at the alkalotic end of the range!

Is the pH in range? ☒ YES ☐ NO
 Is the CO₂ in range? ☐ YES ☒ NO
 Is the HCO₃ in range? ☐ YES ☒ NO

☐ UNCOMPENSATED
☐ PARTIALLY COMPENSATED
☒ FULLY COMPENSATED

FINAL ANSWER:

FULLY COMPENSATED
METABOLIC ALKALOSIS

pH	7.44	☐ ACIDIC ☐ ALKALOTIC ☒ NORMAL
PaCO ₂	49	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	28	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL

12

pH	7.5	↑
PaCO ₂	50	↑
HCO ₃	28	↑

Respiratory pH ↑ CO₂ ↓ Alkalosis
 Opposite pH ↓ CO₂ ↑ Acidosis
 Metabolic pH ↑ HCO₃ ↑ Alkalosis
 Equal pH ↓ HCO₃ ↓ Acidosis

Is the pH in range? ☐ YES ☒ NO
 Is the CO₂ in range? ☐ YES ☒ NO
 Is the HCO₃ in range? ☐ YES ☒ NO

☐ UNCOMPENSATED
☒ PARTIALLY COMPENSATED
☐ FULLY COMPENSATED

FINAL ANSWER:

PARTIALLY COMPENSATED
METABOLIC ALKALOSIS

pH	7.5	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL
PaCO ₂	50	☒ ACIDIC ☐ ALKALOTIC ☐ NORMAL
HCO ₃	28	☐ ACIDIC ☒ ALKALOTIC ☐ NORMAL

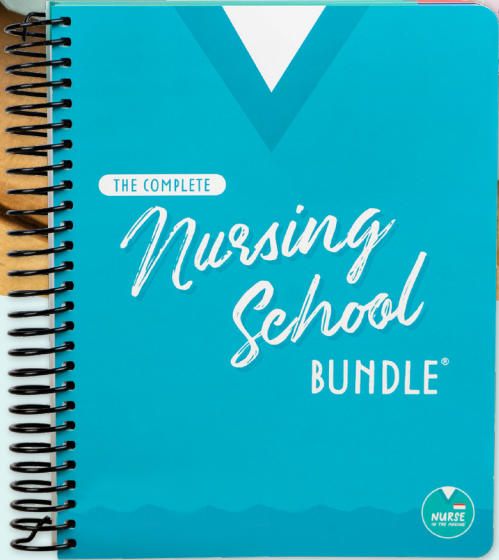
★ All three (pH, PaCO₂ & HCO₃) out of range means partially compensated

Nursing school help is here!



		OSTEOARTHRITIS (OA)		RHEUMATOID ARTHRITIS (RA)	
		PATHOLOGY Degenerative joint disorder resulting in gradual erosion of articular joint cartilage & bone		PATHOLOGY Chronic inflammatory type of arthritis classified as an autoimmune disease	
		ONSET SLOW (years)		ONSET RAPID (weeks to months)	
		PAIN ASYMMETRICAL (affects ONE joint) <i>MEMO: think ONE joint</i>		PAIN SYMMETRICAL (pain & swelling)	
		STIFFNESS STIFFNESS AFTER ACTIVITIES (subsides within 30 minutes)		STIFFNESS STIFFNESS IN THE MORNING (lasts > 1 hour)	
		JOINTS AFFECTED Most likely to affect weight-bearing joints (knees, feet, hips, spine)		JOINTS AFFECTED Tends to affect smaller joints of hands & feet first, then spreads to the knees, ankles, wrists, elbows, hips & shoulders	
		ALTERATIONS OF THE HANDS BONY ENLARGEMENTS Localized Lack of swelling Load-bearing stiffness Larger joints Less than 30 minutes		ALTERATIONS OF THE HANDS FINGER DEFORMITIES Symmetrical pain Stiffness Swelling Small joints Systemic	
		RISK FACTORS - Obesity - Aging - Family history - Prolonged, repetitive motions		RISK FACTORS - Family history - Environmental factors - Smoking - Bacterial or viral illness	
		TREATMENT - Weight loss - Orthotic devices (knee braces, splints) - Walking aids (cane, walker) - Aerobic exercise & strength training into affected joint - Injection of hyaluronic acid Surgery - Arthroplasty: replacement or reconstruction of the joint		TREATMENT - May cause inflammatory response & destruction of synovial fluid Surgery - Synovectomy: removal of synovium - Joint replacement - Arthrodesis: joint fusion	
		MEDICATIONS - Corticosteroids (intra-articular injections or PO) - Analgesics (NSAIDs) - Glucosamine - Chondroitin		MEDICATIONS - Corticosteroids (PO) - Analgesics (NSAIDs) - Disease-modifying antirheumatic drugs (DMARDs)	

274



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Dear future nurse,

You may be stressed, you may feel tired, and you may want to give up. Nursing school is hard, there's no doubt about it. Everyone cries, everyone has meltdowns, and there will be moments you don't feel qualified for the task at hand. But take heart, the challenge only makes you stronger. Put in the work, show up on time, and find an amazing study group. You got this! 😊

— Kristine Tuttle, BSN, RN



YOU GOT THIS!
FUTURE NURSE!

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