

# LVN RN Acid Base Worksheet

Name: Alice K. Baker

Please indicate if the following are Respiratory Acidosis, Respiratory Alkalosis, Metabolic Acidosis, or Metabolic Alkalosis. Also indicate if we have no compensation, partial compensation, or full compensation.

|                                             |                                            |
|---------------------------------------------|--------------------------------------------|
| 1. pH 7.21 (a)<br>CO2 35 (a)<br>HCO3 16 (a) | metabolic acidosis<br>no compensation      |
| 2. pH 7.52 (b)<br>CO2 40 (n)<br>HCO3 32 (b) | metabolic alkalosis<br>no compensation     |
| 3. pH 7.31 (a)<br>CO2 60 (a)<br>HCO3 22 (n) | respiratory acidosis<br>no compensation    |
| 4. pH 7.6 (b)<br>CO2 30 (b)<br>HCO3 26 (n)  | respiratory alkalosis<br>no compensation   |
| 5. pH 7.35 (n)<br>CO2 64 (a)<br>HCO3 32 (b) | respiratory acidosis<br>fully compensated  |
| 6. pH 7.45 (n)<br>CO2 27 (b)<br>HCO3 20 (a) | respiratory alkalosis<br>fully compensated |
| 7. pH 7.38 (n)<br>CO2 27 (a)<br>HCO3 16 (a) | metabolic acidosis<br>fully compensated    |
| 8. pH 7.43 (n)<br>CO2 56 (a)<br>HCO3 33 (b) | metabolic alkalosis<br>fully compensated   |

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|                                              |                                                |
|----------------------------------------------|------------------------------------------------|
| 9. pH 7.31 (a)<br>CO2 52 (a)<br>HCO3 30 (b)  | respiratory acidosis<br>partially compensated  |
| 10. pH 7.53 (b)<br>CO2 28 (b)<br>HCO3 18 (a) | respiratory alkalosis<br>partially compensated |
| 11. pH 7.22 (a)<br>CO2 26 (b)<br>HCO3 14 (a) | metabolic acidosis<br>partially compensated    |
| 12. pH 7.56 (b)<br>CO2 51 (a)<br>HCO3 35 (b) | metabolic alkalosis<br>partially compensated   |
| 13. pH 7.43 (n)<br>CO2 50 (a)<br>HCO3 32 (b) | metabolic alkalosis<br>fully compensated       |
| 14. pH 7.50 (b)<br>CO2 36 (n)<br>HCO3 27 (n) | metabolic alkalosis<br>no compensation         |
| 15. pH 7.42 (n)<br>CO2 16 (b)<br>HCO3 10 (a) | respiratory alkalosis<br>fully compensated     |
| 16. pH 7.52 (b)<br>CO2 30 (b)<br>HCO3 24 (n) | respiratory alkalosis<br>no compensation       |
| 17. pH 7.50 (b)<br>CO2 30 (b)<br>HCO3 23 (n) | respiratory alkalosis<br>no compensation       |

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|                                              |                                               |
|----------------------------------------------|-----------------------------------------------|
| 18. pH 7.30 (a)<br>CO2 55 (a)<br>HCO3 26 (n) | respiratory acidosis<br>no compensation       |
| 19. pH 7.51 (b)<br>CO2 18 (b)<br>HCO3 14 (a) | respiratory alkalosis<br>partial compensation |
| 20. pH 7.33 (a)<br>CO2 38 (n)<br>HCO3 19 (a) | metabolic acidosis<br>no compensation         |
| 21. pH 7.29 (a)<br>CO2 49 (a)<br>HCO3 23 (n) | respiratory acidosis<br>no compensation       |
| 22. pH 7.21 (a)<br>CO2 23 (b)<br>HCO3 9 (a)  | metabolic acidosis<br>partially compensated   |
| 23. pH 7.28 (a)<br>CO2 18 (b)<br>HCO3 9 (a)  | metabolic acidosis<br>partially compensated   |
| 24. pH 7.33 (a)<br>CO2 15 (b)<br>HCO3 8 (a)  | metabolic acidosis<br>partially compensated   |
| 25. pH 7.46 (b)<br>CO2 57 (a)<br>HCO3 39 (b) | metabolic alkalosis<br>partially compensated  |

Shirley W. Baker

Student Name: Ariel WidenerDate: 10/18/20

## ABG Interpretation Practice worksheet (12 items)

| 1                            | 2                            | 3                             |
|------------------------------|------------------------------|-------------------------------|
| pH 7.38 (n) (a)              | pH 7.60 (b)                  | pH 7.37 n (a)                 |
| PaCO <sub>2</sub> 30mmHg (b) | PaCO <sub>2</sub> 25mmHg (b) | PaCO <sub>2</sub> 59 mmHg (a) |
| HCO <sub>3</sub> 10mEq/L (a) | HCO <sub>3</sub> 24mEq/L (n) | HCO <sub>3</sub> 34mEq/L (b)  |
| pO <sub>2</sub> 60 moderate  | pO <sub>2</sub> 72 mild      | pO <sub>2</sub> 82 (N)        |
| Interpretation: Hypoxic      | Interpretation:              | Interpretation:               |
| Metabolic Acidosis           | Respiratory Alkalosis        | Respiratory Acidosis          |
| Fully Compensated            | No compensation              | Fully Compensated             |

| 4                            | 5                            | 6                             |
|------------------------------|------------------------------|-------------------------------|
| pH 7.56 (b)                  | pH 7.34 (a)                  | pH 7.15 (a)                   |
| PaCO <sub>2</sub> 40mmHg (n) | PaCO <sub>2</sub> 50mmHg (a) | PaCO <sub>2</sub> 49 mmHg (a) |
| HCO <sub>3</sub> 38mEq/L (b) | HCO <sub>3</sub> 31mEq/L (b) | HCO <sub>3</sub> 25mEq/L (n)  |
| pO <sub>2</sub> 59 severe    | pO <sub>2</sub> 65 moderate  | pO <sub>2</sub> 74 mild       |
| Interpretation: Severe       | Interpretation:              | Interpretation:               |
| Metabolic Alkalosis          | Respiratory Acidosis         | Respiratory Acidosis          |
| No Compensation              | Partially Compensated        | No Compensation               |

| 7                             | 8                            | 9                              |
|-------------------------------|------------------------------|--------------------------------|
| pH 7.20 (a)                   | pH 7.54 (b)                  | pH 7.42 (n) (b)                |
| PaCO <sub>2</sub> 30 mmHg (b) | PaCO <sub>2</sub> 44mmHg (n) | PaCO <sub>2</sub> 38mmHg (n)   |
| HCO <sub>3</sub> 18mEq/L (a)  | HCO <sub>3</sub> 36mEq/L (b) | HCO <sub>3</sub> 25.3mEq/L (n) |
| pO <sub>2</sub> 55            | pO <sub>2</sub> 64 mod       | pO <sub>2</sub> 92             |
| Interpretation: Severe        | Interpretation:              | Interpretation:                |
| Metabolic Acidosis            | Respiratory Alkalosis        | Normal                         |
| Partially Compensated         | Not Compensated              | Levels                         |

| 10                           | 11                           | 12                             |
|------------------------------|------------------------------|--------------------------------|
| pH 7.31 (a)                  | pH 7.27 (a)                  | pH 7.55 (b)                    |
| PaCO <sub>2</sub> 33mmHg (b) | PaCO <sub>2</sub> 35mmHg (n) | PaCO <sub>2</sub> 34mmHg (b)   |
| HCO <sub>3</sub> 16mEq/L (a) | HCO <sub>3</sub> 10mEq/L (a) | HCO <sub>3</sub> 16.8mEq/L (a) |
| pO <sub>2</sub> 68 moderate  | pO <sub>2</sub> 78 mild      | pO <sub>2</sub> 91 (N)         |
| Interpretation:              | Interpretation:              | Interpretation:                |
| Metabolic Acidosis           | Metabolic Acidosis           | Respiratory Alkalosis          |
| Partially Compensated        | No Compensation              | partially compensated          |

April 10: danner

## Code Blue Role Review

Watch the assigned videos and make notes on the following roles during a code scenario.

### Team Leader/Charge Nurse:

assigns roles, gives clear concise instructions follows up on instructions given. Also assessed for possible causes for cardiac arrest.

### Scribe (documentation):

Kept track of time, medications given and also made sure the compressor was giving good quality compressions.

### Compressor:

administers high quality chest compressions, should switch out every two minutes to avoid getting over tired + compromising quality of compressions.

### Medications:

First the patient was started on O<sub>2</sub>. Once the patient went unresponsive with no pulse + the code started the first medication given over 10 seconds was established was 1mg epinephrine, two minutes later 3 shock delivered and the 1mg epinephrine was given, the next medication given for the third shock was 300mg of amiodarone. The next medication given was 40 units of Vasopressin.  
1mg epinephrine  
1mg epinephrine  
300mg amiodarone  
40 units Vasopressin  
1L Normal Saline

### Airway management:

Monitoring chest rise when administering rescue breaths, and monitoring for pulse between compressions.

### GoFor/Router:

Relays equipment or numbers not available in the crash cart or at bedside.

### What did you notice that was efficient/well done in the videos?

Everyone worked well together + got things done quickly + efficiently. No one panicked. Everyone gave valuable input and did their jobs well.

### What did you notice that could be improved in the videos?

In the second video at some points the compressions were too rapid. Attempting to administer breaths while compressions in progress. Multiple people speaking at once, unclear instructions at times. Not switching out compressors every two minutes. Shouldn't compressors @ times. Not having monitors on as needed (pulse oximeter). Poor organization + missing documentation.  
No debriefing done.