

How does the pH of various body fluids differ?

1. What are the pH values of the following body fluids?
 - Gastric juice
 - Saliva
 - Vagina (vaginal secretions)
 - Urine
 - Semen
 - Pancreatic juice
 - CSF fluid
 - Blood
2. What is the root cause of pH imbalance in the body?
3. What are the consequences of pH imbalance in the body? (Cite at least 5)
4. What role does pH play in human egg fertilization?
5. a. What is the role of the male bulbourethral (Cowper's) gland?
b. How do the secretions of this gland facilitate the "safe" travel of sperm?
6. What is acidosis?
7. Which conditions may cause acidosis?
8. What is alkalosis?
9. Which conditions may cause alkalosis?
10. a. What causes lactic acid build up in the muscles after vigorous exercise?
b. How does lactic acid affect the muscle tissue once it builds up?
c. How can athletes decrease the effects this lactic acid buildup in the muscles?
11. How do the kidneys regulate pH?
12. How do the lungs regulate pH?
13. What is the relationship between hyperventilation and pH?
14. What is the most common first aid treatment for hyperventilation?
15. Why does this work? Explain in terms of pH?