

Homeostasis and Diagnostic Tests

HASPI Medical Biology Lab 04a

Background/Introduction

An inability of the body to maintain homeostasis is known as **homeostatic imbalance**, and can lead to disease or even death. Conditions such as kidney failure, diabetes, and dehydration are all symptoms of homeostatic imbalance. In many cases, medical intervention can correct the imbalance.

Diagnostic Tests: Checking for Balance

The majority of diagnostic tests in medicine are performed to check whether components of the body are within normal values. Essentially, they are determining whether tissues, organs, and/or systems of the body are working correctly by determining if they are maintaining homeostasis with the products they produce. There are many different types of diagnostic tests that can be performed to determine if a homeostatic imbalance is present. The following are examples of diagnostic tests:

- **Vitals Signs** – Common vital signs include the pulse, temperature, skin color, respiration rate, and blood pressure. All vital signs have a normal value and any value lower or higher indicates a homeostatic imbalance.
- **Blood Tests** – A blood sample is taken and can be tested for a wide variety of substances that circulate in the blood. This could include hormones, elements such as sodium (Na^+), cells, proteins, lipids, glucose, vitamins, and substances that should not be in the bloodstream like toxins, bacteria, or drugs.

The Urinalysis

The urinalysis is a diagnostic test that determines what is present in secreted urine. It can reveal many different types of diseases, even those without any visible symptoms. A urinalysis usually includes a visual observation of the urine for color and clarity, a microscopic observation for sediment particles, and a urine dipstick chemical analysis. The chemical analysis is capable of determining pH, specific gravity, glucose, proteins, bilirubin, ketones, presence of blood, nitrites, urobilinogen, and leukocytes.

The urinalysis is a useful tool in determining whether a patient's kidneys are functioning regularly as well as helping to diagnose conditions including hydration level, infections, bacteria, liver disease, kidney stones, gallstones, anemia, kidney failure, proteinuria, diabetes, or drug use to name a few



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Thomas P. Colville, Joanna M. Bassert



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