

INTRODUCTION TO URINALYSIS
OUR LADY OF FATIMA UNIVERSITY, PAMPANGA
BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY/MEDICAL LABORATORY SCIENCE
HISTORY, IMPORTANCE AND URINALYSIS SPECIMEN HANDLING COMPREHENSIVE
DISCUSSION

- Analyzing urine marked the beginning of laboratory medicine
- Basic observations were: Color, Turbidity, Odor, Volume, Viscosity, Sweetness (attracts and or taste sweet)
- **HISTORY**
 - ❖ Hippocrates → wrote a book on uroscopy in 5th BCE
 - ❖ Middle ages → physicians concentrated their efforts very intensively on the art of uroscopy, receiving instruction in urine examination as part of their training
 - ❖ 1140 CE → color charts had been developed that described the significance of 20 different colors
 - ❖ 1694 → Frederick Dekkers discovered albuminuria by boiling urine
 - ❖ 1627 → Thomas Bryant wrote a book on "pisse prophets"
 - ❖ 17th century → invention of the microscope led to the examination of urine sediment and development by Thomas Addis of methods for quantitating urine sediments (Addis count → cells in the urine)
 - ❖ 1827 → Richard Bright included urinalysis as part of the doctor's routine patient examination

URINE FORMATION

- Urine is an ultrafiltrate of plasma
- Reabsorption of water and filtered substances essential to body function converts approximately 170,000 mL of filtered plasma to the average daily urine output of 1200 mL
- Normal daily urine output: 1200-1500 mL (range of 600-2000 is considered normal)
 - ❖ Terms related to urine output:
 - ✓ Oliguria – decrease urine output
 - ✓ Anuria – cessation of urine
 - ✓ Polyuria – increase urine output
 - ✓ Nocturia – increase urine output at night

URINE COMPOSITION

- 95% water and 5% solutes (conc. of solutes influenced by: dietary intake, physical activity, body metabolism, endocrine functions)
- **IMPORTANT NOTE:**
 - ❖ Primary organic component: Urea
 - ❖ Primary inorganic component: Chloride

SPECIMEN COLLECTION

- Urine is the **most frequently analyzed non-blood body fluid**
- readily available, easy to collect, and generally inexpensive to test

Table 3-1 Primary Components in Normal Urine¹

| Component | Comment |
|------------|--|
| Urea | Primary organic component. Product of protein and amino acid metabolism |
| Creatinine | Product of creatine metabolism by muscles |
| Uric acid | Product of nucleic acid breakdown in food and cells |
| Chloride | Primary inorganic component. Found in combination with sodium (table salt) and many other inorganic substances |
| Sodium | Primarily from salt, varies by intake |
| Potassium | Combined with chloride and other salts |
| Phosphate | Combines with sodium to buffer the blood |
| Ammonium | Regulates blood and tissue fluid acidity |
| Calcium | Combines with chloride, sulfate, and phosphate |

Urinalysis Study Guide

BM King



Urinalysis Study Guide:

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