

Introduction to Urinalysis

Blast from the past!!!

- **Hippocrates** - 5th century B.C wrote a book on "uroscopy"
- **Middle ages** - uroscopy has been a part of the physician's training
- **1140 AD** - color charts had been developed that described the significance of 20 different colors.
- **1694** - discovery of albuminuria by boiling urine. (Fredrik Dijkster)
- **1827** - Thomas Bryant published a book about the credibility of urinalysis that inspired the passing of the first medical licensure laws in England.
- **17th Century** - Addis count was developed. (quantitation of microscopic sediments)
- **1827** - Richard Bright introduced the concept of urinalysis as a part of routine patient examination.

What is Urine?

- Aqueous solution of various organic and inorganic substances
- Substance may be either waste products resulting from body metabolism or products derived directly from the food eaten resulting from metabolism.
- 97% water and 3% solids

Why Choose Urine for Analysis?

1. It is readily available and easily collected.
2. Contains information about the body's major metabolic functions
3. Inexpensive laboratory testing can be performed.
4. It is most useful in ascertaining evidence of disease or disturbing function of the kidneys
5. Pathological lesion of the ureters, bladder or urethra
6. In male, lesion of the prostate and seminal vesicles.

Urine Composition

1. Organic

COMPONENT	AMOUNT	
1. UREA	25-35 g	50-90% of nitrogenous material derived from metabolism of amino acids into ammonia
2. CREATININE	1.5 g	Derived from creatine, nitrogenous substance in muscle tissue
3. URIC ACID	0.4-1g	Common component of kidney stones, derived from catabolism of nucleic acid in food & cell destruction
4. HEPYRIC ACID	0.7 g	Elimination from of Biotin acid, increases with high vegetable diet
5. OTHER SUBSTANCES	2.9 g	Carbohydrates, pigments, fatty acids, mucus, enzymes, hormones (depends on diet & health)

2. Inorganic

COMPONENT	AMOUNT	
Sodium Chloride	17 g	Principal salt (varies with intake)
Potassium	1.3 g	Occurs as Chloride, Sulfate & Phosphate salts
Sulfate	2.5 g	Derived from amino acids
Phosphate	1.7 g	Occurs as sodium compounds that serve as buffers in the blood
Ammonium	6.7 g	Derived from protein metabolism & glutamine in kidneys (Varies depending on blood & tissue fluid acidity)
Magnesium	0.1 g	Occurs as Chloride, Sulfate, Phosphate salts
Calcium	0.3 g	Occurs as Chloride, Sulfate, Phosphate salts

Urine Volume

- **Normal Urine volume**
 - 1200-1500 mL/ day
- **Night Urine**
 - Not more than 400 mL
 - Kidneys excrete 2-3 times in day than in night

Nocturia	• Increased excretion at night • More than 500 mL at night • Common in patients with DM
Oliguria	• Decrease in normal daily urine volume • Less than 500 mL /24 hours • Hypovolemia
Anuria	• Near complete cessation of urine • This may be due to poisoning with bichlorides, severe acute nephritis, obstruction of urinary passage caused by tumors or calculi
Polyuria	• Increased in daily urine output • Common in patients with DM and DI • Can be artificially induced by: caffeine, alcohol, diuretics, IV fluids, increased salt and protein intake • Hypovolemia

Differentiation between DI & DM

	Diabetes mellitus	Diabetes insipidus
Polydipsia	✓	✓
Polyuria	✓	✓
Specific gravity	✓	✓
Decreased substance	✓ Insulin or Insulin function	✓ ADH (antidiuretic hormone or vasopressin) or ADH function
Increased substance	✓ Glucose	-

Defective urine excretion (pathologic)

1. Defective hormonal regulation of volume homeostasis.
2. Defective renal salt/ water absorption.
3. Osmotic diuresis.

Specimen Collection

- Clean, dry, leak-proof, disposable container
- 50 mL capacity (RECOMMENDED)
- Reject if there is no specimen label

Specimen integrity

- Must be delivered and processed in the laboratory within 2 hours!!

Urine Preservation

- **Low Temperature:** Specimens are kept at cold temperature that would maintain all the natural components and characteristics of the sample undisturbed or unchanged.
 - **Refrigeration** - specimens are kept at cold temperature. This prevents the growth of bacteria and helps preserve the formed elements such as casts, red blood cells, white blood cell epithelial cells and an acidic pH.
 - **Dry ice or wet ice** - Same action and preservation as refrigeration.

Urinalysis Manual

Olga Pozdnyakova, Carlo Brugnara

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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Handbook of Canine & Feline Urinalysis Carl A. Osborne, Jerry B. Stevens, 1981 **The Essentials of medical chemistry and urinalysis** Samuel Elisha Woody, 1890 **Fundamentals of Urine and Body Fluid Analysis - E-Book** Nancy A. Brunzel, 2012-03-23 Renowned for its clear writing style logical organization level and depth of content and excellent color illustrations Fundamentals of Urine Body Fluid Analysis 3rd Edition covers the collection and analysis of urine fecal specimens vaginal secretions and other body fluids such as cerebrospinal synovial seminal amniotic pleural pericardial and peritoneal fluids Expert author Nancy Brunzel shares her extensive knowledge and expertise in the field presenting key information and essential techniques and procedures as well as easy to grasp explanations of how to correlate data with basic anatomy and physiology to understand pathological processes Vaginal Fluid Analysis chapter covers vaginal wet preps a topic not found in many other references Case studies help you understand how key concepts apply to real world practice Full color images and photomicrographs show you what you should see under the microscope An image glossary presents 94 additional images to help you identify rare and common cells Multiple choice questions at the end of every chapter allow you to test your understanding of the material A glossary at the end of the book offers quick access to key terms and definitions NEW Automation of Urine and Body Fluid Analysis chapter helps you understand the automated procedures being used in more and more labs NEW Body Fluid Analysis Manual Hemacytometer Counts and Differential Slide Preparation chapter ensures you know how to perform manual analysis methods UPDATED Coverage of the latest instrumentation keeps you up to date with the technology used in today's laboratories [A Laboratory Hand-book of Urine Analysis and Physiological Chemistry](#) Charles George Lewis Wolf, 1901 **Wet Urinalysis** Gilbert Berry Schumann, Sheryl K. Friedman, 2003 An essential handbook Wet Urinalysis provides up to date information on dipstick testing chemical and microscopic analysis and urine sediment More than 200 full color images illustrate the text along with many helpful tables and an extensive glossary To enhance clinical correlation algorithms for wet urinalysis are paired with case studies *Index-catalogue of the Library of the Surgeon-General's Office, United States Army* National Library of Medicine (U.S.), 1914 [Hematology Laboratory in the Digital and Automation Age, An Issue of the Clinics in Laboratory Medicine](#) Olga Pozdnyakova, Carlo Brugnara, 2024-08-06 In this issue of Clinics in Laboratory Medicine guest editors Drs Olga Pozdnyakova and Carlo Brugnara bring their considerable expertise to the topic of Hematology Laboratory in the Digital and Automation Age Top experts in the field discuss how automation may be applied to hematology coagulation and flow cytometry novel technologies for routine hematology and coagulation analysis to enhance readers knowledge of new digital technologies used for cell analysis and classification in hematology and new uses of flow cytometry in the diagnosis of hematological malignancies red cell disorders and platelet function alterations Contains 15 relevant practice oriented topics including automation in flow cytometry immunodeficiency work up by flow cytometry routine coagulation novel anticoagulants laboratory aspects and more Provides

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Pacific Medical Journal ,1906

Urinalysis John Flynn,John C. Flynn,Sheryl Whitlock,1996-08-06 This valuable manual provides laboratory technicians with easy access to all of the essential information and step by step guidance required to properly collect specimens conduct physical observations and perform chemical and microscopic analyses Effective safety procedures and quality control measures are explained throughout 24 illus Photos and tables **Pacific Medical and Surgical Journal** ,1905

Memphis Medical Monthly ,1898

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