

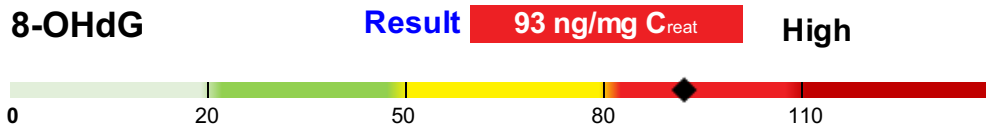
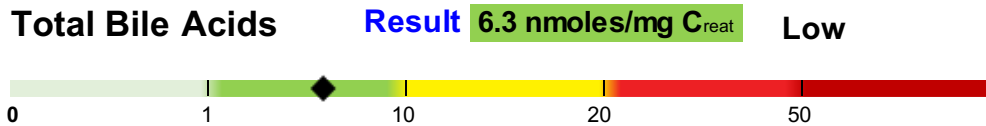
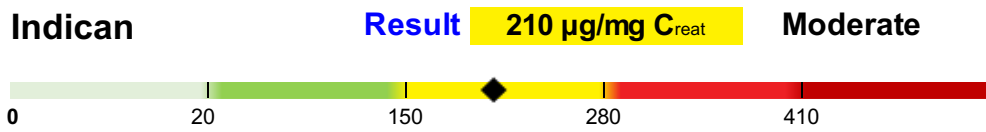
## RESULTS: DRIED URINE TEST

Accession #: 100035619 • Patient: April Smith

**Patient:** April Smith  
**Tel:** (123) 456-789 **Email:** test@test.com  
**Sex:** Female **Age:** 36 yr **Date of Birth:** 1989-02-02  
**Health Care Professional:** Jane Smith

**Accession #:** 100035619  
**JD Clinic AN:**  
**Sample received:** 2026-01-25  
**Report issued:** 2026-02-04  
**Sample collection:**  
 2025-11-16 10:15 AM

## METABOLIC WELLNESS PROFILE



\* **ND** = Non-Detectable (see explanation at end of commentary section).

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**GENERAL COMMENTARY**

The comments provided here are for educational purposes only. The results in this report should not be interpreted as diagnostic, nor should they be viewed as treatment recommendations. Those decisions are the responsibility of the health care professional. Moreover, the reference ranges shown in this report are derived from a normal distribution of results, that encompass 95% of randomly selected individuals in a population (see below).

**Urinary Indican**

Urinary indican is an effective screening tool for assessment of protein digestion, dysbiosis, small intestinal bacterial overgrowth (SIBO), intestinal mucosal permeability and malabsorption states<sup>1</sup>. Also known as indoxyl sulfate, indican is a putrefaction product that results from dysbiotic bacterial deconjugation of dietary tryptophan to indole in the small intestine.

The traditional assessment of urinary indican utilizes the Obermeyer reagent, which gives a qualitative result. It consists of color changes in the chloroform layer, which are compared to a standard color guide, corresponding to five increasing concentrations of indican, and most often shown as: (0) Normal, (+1) Low, (+2) Medium, (+3) High, (+4) Very High.

The results in this FLUIDS iQ report are shown in a range from Negative, Low, Moderate, High and Very High; providing a general correspondence to the +1 to +4 reference guide noted above. However, the analytical result is given as a more precise quantitative measure<sup>2</sup>, shown in a box above the color chart, as well as with a diamond marker in the chart.

Indican levels of Low, or higher, may indicate the following: Inadequate dietary protein digestion, intestinal toxemia and/or an overgrowth of anaerobic bacteria, putrefaction of undigested food in the bowels, various stomach disorders, such as insufficient hydrochloric acid (HCL), as well as pancreatic insufficiency, especially in trypsin and chymotrypsin. Indican levels that have reached High to Very High may indicate even greater insufficiency of HCL, as in hypochlorhydria and/or protease enzyme deficiency. It also may indicate hypomotility of the upper bowel, liver dysfunction, as well as increases in some common microorganisms such as *Salmonella*, *Staphylococcus aureus*, *Candida albicans* and other candida species. Inability to digest protein can lead to adverse effects on glycemic control, and hormone imbalance.

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**Urinary Total Bile Acids**

Bile acids (BAs) play key roles in many physiological functions, such as cholesterol elimination, fat absorption, regulation of energy expenditure, as well as glucose and lipid metabolism<sup>3</sup>. They are synthesized in the liver and then stored in the gallbladder. Subsequent to gallbladder contraction, bile acids enter the intestinal lumen and are reabsorbed in the ileum. They are cleared from the portal circulation on the first pass through the liver.

Elevated TBA represents bile acids that were not cleared by the liver and is used as a screening marker of liver parenchymal damage, an indication of liver dysfunction. An increase in TBA may indicate a risk of viral disease, cirrhosis and drug-induced liver injury, as well as cholestasis.

A low level of TBA is suggestive of inflammatory bowel disease (IBD), chronic malabsorption, persistent diarrhea, or starvation.

**Urinary 8-Hydroxy-2-Deoxyguanosine (8-OHdG)**

Reactive oxygen species (ROS) are ubiquitous in living aerobic organisms. They result either from cell metabolism or from the action of exogenous physical sources (e.g., ionizing radiation) and/or chemical compounds. Oxygen free radicals can induce a variety of damage to DNA, including DNA single and double strand breaks and base modifications<sup>4</sup>. Oxidative DNA damage is considered to play an important role in many pathophysiological processes, aging and cancer. 8-OHdG is an oxidized derivative of deoxyguanosine, and is one of the major products of DNA oxidation. In nuclear and mitochondrial DNA, 8-OHdG is among the most commonly observed single nucleotide-base lesions that might induce mutations in replicating DNA. Also, it is well accepted that these free radical-induced oxidative lesions are potential biomarkers of oxidative DNA damage<sup>5, 6</sup>. These mutations are of major importance in human cancers and degenerative diseases<sup>7</sup>.

The formation of 8-OHdG in DNA, and its urinary excretion, have been frequently measured to assess endogenous oxidative stress and damage in humans after exposure to cancer-causing agents, such as heavy metals, tobacco smoke, asbestos fibers and polycyclic aromatic hydrocarbons<sup>8</sup>. A biomarker of oxidative stress, 8-OHdG is associated with many disease entities including; diabetes, COPD, cystic fibrosis, rheumatoid arthritis, Parkinson's, Alzheimer's and chronic hepatitis. It is also closely associated with high blood pressure and inflammatory conditions such as pancreatitis, as well as carcinogenesis<sup>9</sup>.

The use of 8-OHdG has also been found beneficial for the assessment of exercise-induced oxidative damage. Although most of the studies have not concluded a solid link between exercise and oxidative damage, there is a tendency of increased 8-OHdG levels during extensive exercise<sup>10</sup>.

When not sufficiently balanced by local antioxidant systems, oxidative damage may occur to cellular lipid membranes, proteins, as well as mitochondrial and nuclear DNA.

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**Metabolic Wellness Profile Reference Range Description**

The reference ranges for Indican, TBA and 8-OHdG are shown in this report as 5 color coded sections, and described as Very Low, Low, Moderate, High and Very High. Each section represents a 20th population percentile. All results were normalized using creatinine as the normalizing factor. This adjusts for a variety of variables, including physiological urine concentration and urine volume absorbed on the collection card.

ND = None Detected.

The specimen exhibited exceedingly low levels of creatinine. This points to a very dilute urine sample, often as a result of overhydration - too much fluid intake. Alternatively, too dilute urine specimen may be encountered if the specimen did not represent a "first morning void", which usually represents the most concentrated urine of the day, or a combination with the formerly mentioned overhydration. In other words, in the vast majority of cases these factors arise if the collection instructions were not strictly adhered to. Other reasons for an exceedingly dilute urine specimen, include diabetes insipidus and certain drugs, including diuretics, or beverages containing methylxanthines; e.g., caffeine or theobromine in coffee and tea or cacao, respectively.

**References:**

1. Mayer PJ and Beeken WL. *Am J Dig Dis*, 1975, 20:1003-1009; 2. Jackson JA et al. *J Orthomol Med*, 2000, 15: 18-20; 3. Barthena APR et al. *Toxicol Sci*, 2015, 14: 296-307; 4. Dizdaroglu M. *Free Rad Biol & Med*, 1991, 10: 225-242; 5. Korkmaz KS. *J Lab Precis Med*, 2018, 3: 95; 6. Ohno M et al. *Scientific Reports*, 2014, 4: 4689; 7. Pilger A & Rudger HW. *Int Arch Occup Environ Health*, 2006, 80: 1-15; 8. Wu LL, et al. *Clin Chim Acta*, 2004; 339:1-9; 9. Valavanidis A, et al. *J Environ Sci Health C Environ Carcinog Excotoxicol Rev*, 2009; 2: 120-139; 10. Yasuda N. *Journal of Sports Sciences*, 2015, 33: 1692-1701.



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## RESULTS: SALIVA HORMONE TEST

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