Lab Med Report

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IN THIS ISSUE: A New Laboratory Test for Ketones

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On April 19, 2016 the laboratory will be offering a new blood test for ketones called beta-hydroxybutyrate.

There are 3 forms of ketones in the human body: Acetoacetic acid, acetone, and beta-hydroxybutyrate.

Beta-hydroxybutyrate is valuable to measure since it represents approximately 75% of blood ketones. This test is useful for monitoring therapy for patients with diabetic ketoacidosis.

The normal range is 0.20-2.81 mg/dl.

Elevated serum beta-hydroxybutyrate levels can be observed in the following conditions:

- -Diabetic ketoacidosis
- -Alcoholic ketoacidosis
- -High fat diet
- -Steroid or growth hormone deficiency
- -Salicylate poisoning
- -Fasting and starvation
- -Lactation
- -ketogenic diets

-Glycogen storage diseases and other metabolic disorders.