

First time in  
Australia



**ABLE**  
ASTHMA

Australia's largest range  
of asthma products

# Hematocrit Ketone **Glucose** Cholesterol



HCT & Glucose



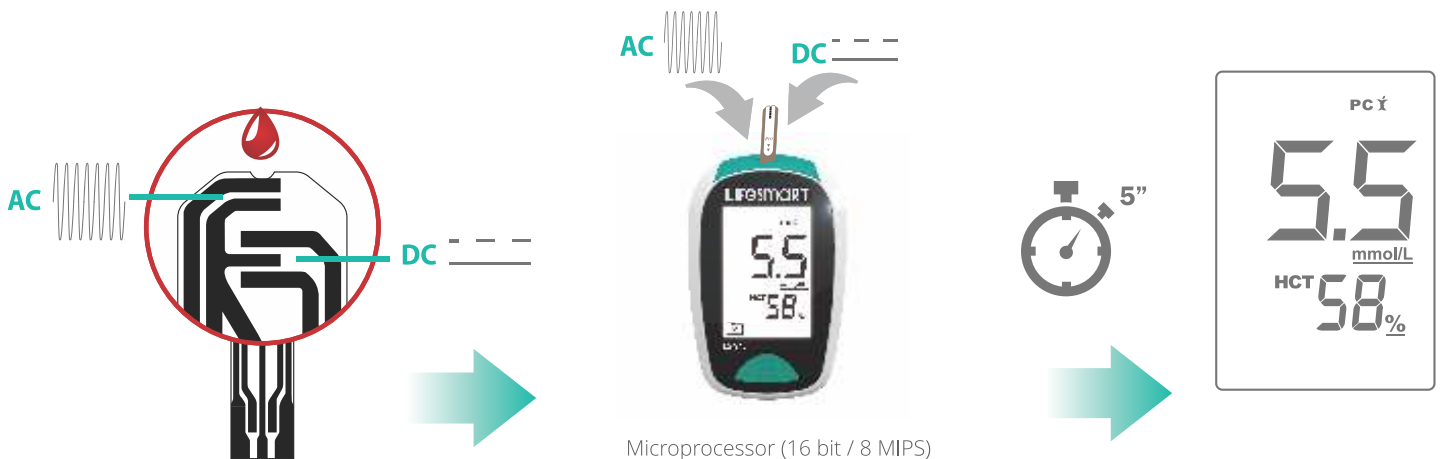
B-Ketone



Cholesterol\*

LS- 946 **2+** **TWOPLUS**

Available on NDSS



Microprocessor (16 bit / 8 MIPS)

\*coming soon



LS- 946 **2+2 TWOPLUS**

## Who Can Test

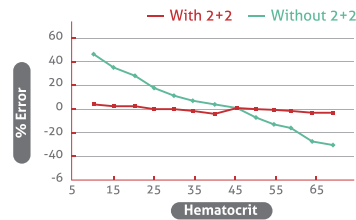
Infants & Newborns  
Pregnant women  
Sick & the elderly  
Kidney dialysis patient  
Normal individuals



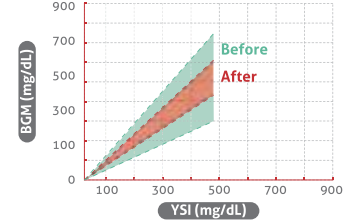
## What Difference Does It Make

Simultaneous measurement of patient's hematocrit with algorithmic adjustment of glucose result.

EFFECT OF HEMATOCRIT ON ACCURACY



BGM vs. YSI VALUES BEFORE AND AFTER HIC



## Why Measure Hematocrit

HCT = % Of Red Blood Cells  
 ↑ HCT = ↓ Blood Glucose  
 ↓ HCT = ↑ Blood Glucose

## Reasons of Change in Hematocrit Values

Increased Values	Decreased Values
<ul style="list-style-type: none"> <li>Dehydration</li> <li>Newborns</li> <li>Psychic Stress</li> <li>Sample Transport and Storage</li> <li>Sex (Higher Values in Men)</li> <li>Smoking</li> <li>Vitamin B12</li> </ul>	<ul style="list-style-type: none"> <li>Age</li> <li>Alcoholism</li> <li>Angioplasty</li> <li>Cold Agglutinins</li> <li>Favism</li> <li>Hemodialysis</li> <li>Lysol (Intravascular Hemolysis)</li> <li>Oxalates</li> <li>Physical Exercise</li> <li>Pregnancy</li> <li>Surgical Procedure</li> </ul>

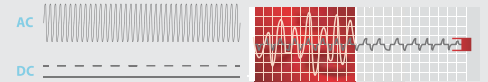
## Why Measure Ketone

Ketones are a type of acid produced when there is a shortage of insulin in the blood and your body breaks down fat for fuel. The accumulation and elevated level of ketones will lead to diabetic ketoacidosis (DKA) which is a potentially life-threatening complication in diabetes patients, especially those with type1 diabetes.

American Diabetes Association now recommends testing your ketone level on sick days or blood glucose more than 300 mg/dL (16.5mmol/L). A study in a New York Hospital also showed that if DKA was prevented at home, it could prevent physician visit, emergency department visit, and even hospital or intensive care admission.

## Why 2+2 BioSignal?

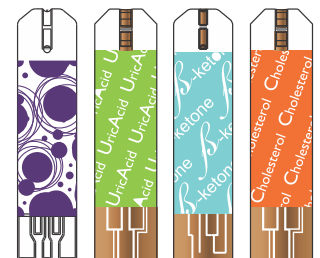
- LifeSmart 2 + 2 (HCT Interference Compensation; 2 enzymes plus 2 signals) technology uses two different wales on the strips to detect HCT value by AC signal and glucose value by DC signal.
- Utilising AC signal is used to calculate the hematocrit value in order to compensate the correct value for fast, small volume, accurate test.
- Utilising DC signal is to calculate the glucose value.



Glucose & Ketone Strips

Coming Soon:  
LS- 959 Multifunctional Monitoring System

Glucose, Uric Acid, Ketone & Cholesterol Strips



HCT: 0% - 70%  
Enzyme GDH - FAD

**3**

3 Parameters: Glucose, HCT & Ketone

**NO**  
Coding



Sample Size  
1.0wL



Wireless Data Transfer