



# LAB UPDATE

## ST. VINCENT WARRICK HOSPITAL

### NEW CHEMISTRY ANALYZER

**EFFECTIVE DATE: MAY 7, 2019**

As individual sites transition to their new instrumentation there will be noticeable changes to both reportable ranges and reference intervals. As part of this implementation, MACL was able to review all processes and procedures to ensure they are in line with regulatory guidelines and standards of care.

Due to the change in instrumentation and change in methodology, some assays are more affected than others. The following are noted to have clinically significant shifts in result values and attention to reference intervals will be important.

|             | OLD MALE |         | NEW MALE |          | OLD FEMALE |         | NEW FEMALE |         |
|-------------|----------|---------|----------|----------|------------|---------|------------|---------|
|             | AGE      | NORMAL  | AGE      | NORMAL   | AGE        | NORMAL  | AGE        | NORMAL  |
| <b>ALT</b>  | 0        | 17-63   | 18       | <50      | 0          | 14-54   | 18         | <35     |
| <b>ALKP</b> | 19       | 32-91   | 18       | 38-126   | 19         | 32-91   | 18         | 38-126  |
| <b>AST</b>  | 0        | 15-41   | 18       | 17-59    | 0          | 15-41   | 18         | 14-36   |
| <b>CK</b>   | 0        | 49-397  | 18       | 55-170   | 0          | 49-397  | 18         | 30-135  |
| <b>CRP</b>  | 0        | 0.0-0.5 | 18       | <1.0     | 0          | 0.0-0.5 | 18         | <1.0    |
| <b>LIPA</b> | 0        | 22-51   | 18       | 23 - 300 | 0          | 22-51   | 18         | 23-300  |
| <b>SALI</b> | 0        | 4-30    | 0        | <20.0    | 0          | 4-30    | 0          | <20.0   |
| <b>URIC</b> | 0        | 2.6-7.2 | 18       | 3.5-8.5  | 0          | 2.6-7.2 | 18         | 2.5-6.2 |

For specific details and comparison charts on how ranges and values are changing for your Hospital Location, please visit our website or follow the link below: <https://www.maclonline.com/lab-updates/>

If you have any questions, please contact:

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With this implementation, MACL is pleased to announce that the vast majority of general chemistry assays will have pediatric reference intervals on the new instrumentation that are sourced back to large scale studies, databases and published literature.

The following assays are known to have Biotin interferences:

- CK-MB
- Troponin-I
- TSH