Improving the clinical management of suspected pre-eclampsia

- Measures placental growth factor (PLGF), a biomarker specific to the underlying pathophysiology, placental dysfunction.
- Accurately risk stratifies women with suspected pre-eclampsia in their first presentation.
- Allows appropriate adjustment of clinical surveillance and, where indicated, to plan for preterm delivery.
- Provides quantitative results in 15-20 minutes.
- Runs on the trusted point-of-care Alere Triage® MeterPro.

Please consider attending the symposium titled:

**Early and accurate detection of placental dysfunction as a predictor of complications in hypertensive pregnancy**

Tuesday, 25th June 7:30 - 8:30 am, Hall 11

- A need for better predictors of adverse pregnancy outcome in women with hypertensive pregnancy
  
  *Nigel Simpson, Senior Lecturer and Honorary Consultant, Academic Department of Obstetrics & Gynaecology, Leeds General Infirmary, Leeds, UK*

- PLGF as an early and accurate test for the detection of placental dysfunction and predictor of pregnancy complications
  
  *Andrew H. Shennan, Professor of Obstetrics, King’s College Hospital, London, UK*
Accurately risk stratify women with suspected pre-eclampsia before 35 weeks

A recent prospective observational cohort study (the PELICAN study), conducted in the United Kingdom and Ireland among 625 women, demonstrated that placental growth factor (PIGF), measured on the Alere Triage® MeterPro, accurately quantifies risk for preterm delivery in a sub-group of 287 women presenting with suspected pre-eclampsia before 35+0 weeks’ gestation.

Risk stratification for preterm delivery by PIGF level

<table>
<thead>
<tr>
<th>Risk Level</th>
<th>PIGF Levels</th>
<th>Predictive Value</th>
<th>Median Time to Delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Risk</td>
<td>Highly Abnormal PIGF (&lt;12 pg/mL)</td>
<td>94% PPV for preterm delivery</td>
<td>9 days (IQR 3-16)</td>
</tr>
<tr>
<td>Medium Risk</td>
<td>Abnormal PIGF (12 pg/mL &lt;100 pg/mL)</td>
<td>60% PPV for preterm delivery</td>
<td>23 days (IQR 11-40)</td>
</tr>
<tr>
<td>Low Risk</td>
<td>Normal PIGF (≥100 pg/mL)</td>
<td>96% NPV for delivery in 14 days</td>
<td>61 days (IQR 37-90)</td>
</tr>
</tbody>
</table>

IQR = Interquartile Range

Test Procedure: 3 Easy Steps

1. Add EDTA plasma sample to cartridge
2. Insert cartridge into the Alere Triage MeterPro
3. Wait about 15 mins and read quantitative result

References:

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