Diagnostic performance: OxLDL, LDL

CLSI EP24-A2 - Appendix D

Last updated 25 June 2015 at 14:02 by Simon Huntington

ROC Curve

<table>
<thead>
<tr>
<th></th>
<th>AUC</th>
<th>95% CI</th>
<th>SE</th>
<th>Z statistic</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OxLDL</td>
<td>0.800</td>
<td>0.678 to 0.921</td>
<td>0.0620</td>
<td>4.83</td>
<td>&lt;0.0001</td>
</tr>
<tr>
<td>LDL</td>
<td>0.562</td>
<td>0.398 to 0.725</td>
<td>0.0836</td>
<td>0.74</td>
<td>0.4604</td>
</tr>
</tbody>
</table>

H0: θ = 0.5
The area under the curve is equal to 0.5.
H1: θ ≠ 0.5
The area under the curve is not equal to 0.5.

1 Reject the null hypothesis in favour of the alternative hypothesis at the 5% significance level.
2 Do not reject the null hypothesis at the 5% significance level.

Comparison

<table>
<thead>
<tr>
<th>Contrast</th>
<th>Difference</th>
<th>95% CI</th>
<th>SE</th>
<th>Z</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OxLDL - LDL</td>
<td>0.238</td>
<td>0.083 to 0.393</td>
<td>0.0790</td>
<td>3.01</td>
<td>0.0026</td>
</tr>
</tbody>
</table>

H0: θ1 - θ2 = 0
The difference between the area under the curves is equal to 0.
H1: θ1 - θ2 ≠ 0
The difference between the area under the curves is not equal to 0.

1 Reject the null hypothesis in favour of the alternative hypothesis at the 5% significance level.
Diagnostic performance: OxLDL

CLSI EP24-A2 - Appendix D

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Descriptives

![Frequency density and distribution of OxLDL](image)

Decision Threshold

![Sensitivity and Specificity curves](image)