NT Pro BNP in Assessing the Severity of Stable Coronary Artery Disease

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Introduction
Coronary artery disease (CAD) is the most common, serious, life threatening illness in developed countries and has a rising prevalence rate in developing countries.
CAD occurs due to progressive narrowing of coronary artery lumen.
CAD can be graded by Gensini scoring system based on number and type of vessels involved.
Serum NT pro BNP has been used to predict mortality in patients with acute coronary syndromes with left ventricular dysfunction.
The role of serum NT pro BNP in stable coronary artery disease without left ventricular dysfunction requires evaluation.

Aim
To measure and compare the serum NT pro BNP levels in patients with stable coronary artery disease without left ventricular dysfunction and controls.
To evaluate serum NT pro BNP in diagnosing stable coronary artery disease without left ventricular dysfunction.
To correlate serum NT pro BNP levels with respective Gensini score

Method
Ethics clearance was obtained from Institutional Ethics committee.
Study was conducted in department of Biochemistry in collaboration with department of Cardiology, Kasturba Medical College and Hospital, Manipal, Manipal University

Results

Table 1: Comparison of serum NT pro BNP levels in cases and controls

<table>
<thead>
<tr>
<th>Group</th>
<th>Median (pg/mL)</th>
<th>IQR (pg/mL)</th>
<th>p value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controls (n=36)</td>
<td>99.31</td>
<td>(86.38, 125.54)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Cases (n=50)</td>
<td>151.9</td>
<td>(117.7, 222.23)</td>
<td></td>
</tr>
</tbody>
</table>

*Mann Whitney U test

Fig 1: Serum NT pro BNP among females in both controls & cases

Fig 2: Serum NT pro BNP among male controls & cases


Conclusion
Increase in serum NT pro BNP levels are significantly associated with stable CAD and its severity. Hence, serum NT pro BNP can be a potential diagnostic and prognostic marker of CAD.

Acknowledgements
We sincerely thank our institution for providing the required support and funding in conducting and presenting this work.
Results

Importing / inserting files…

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Method

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Cost…

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Conclusion

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Notes about graphs…

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Graphs done in a scientific graphing programs (eg. Sigma Plot, Prism, SPSS, Statistica) should be saved as JPEG or TIFF if possible. For more information see MIU.

Captions to be set in Times or Times New Roman or equivalent, italic, between 18 and 24 points.
Left aligned if it refers to a figure on its left. Caption starts right at the top edge of the picture (graph or photo).

Captions to be set in Times or Times New Roman or equivalent, italic, between 18 and 24 points. Right aligned if it refers to a figure on its right. Caption starts right at the top edge of the picture (graph or photo).

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