13. Blood Pressure Review

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New Zealand
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• **13. Invent Yourself: Blood pressure**

Study the accuracy of various methods to measure blood pressure.

Propose an interesting study involving blood pressure and pulse.
Reporter’s Problem

• Investigate the influence of different products (cold and warm water, warm water with honey, coffee and glycine) on the pulse and blood pressure.
The Report

• Different problem statement to what was entered
• Systolic and diastolic blood pressure
• Pulse
• Artery lumen, temperature change and hormones
• List of substances and what effect the should have, and why they were used
• Method, parameters, experimental process
• Results, warm and cold water, honey, coffee etc.
• Conclusion, cardiac system can be effected by different systems.
• Did not study accuracy of different methods
• No comparison of methods
The opposition

- CQ: What type of hormones effect blood pressure? What are Korsakoff sounds? What was the concentration of coffee and water in the drinks?
- Stated task was only partially fulfilled
- Explained phenomenon well
- Appreciated the mentioning of hormones
- Didn’t agree with the effect of the nervous system, or the way the test were done (little test subject, and standardization)
- Disagreed with the use of only one method, parameters used and the graphs displayed.
Points discussed
4mL per kg

<table>
<thead>
<tr>
<th>Opponent</th>
<th>Reporter</th>
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<tbody>
<tr>
<td>• I didn't understand the method</td>
<td>Subjects had different mass</td>
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Our opinion
## Methods

<table>
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<tbody>
<tr>
<td>• Why use Korotkoff?</td>
<td>• Korokoff was the most accurate measurement</td>
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<tr>
<td>• Why is it the most accurate?</td>
<td>• We compared it to others</td>
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Our opinion: No justification of this statement. And therefore did not answer question, as there was no comparison in presentation.
Frequency of coffee drinking

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| • Why does coffee effect blood pressure | • If you drink coffee frequently it  
• Coffee is stimulating |

Our opinion: poorly explained, agree with the opponent
Points missed

• Blood pressure is inherently variable