**INTRODUCTION**

- Population Specific User Mastery (PSUM)
  - Metric to evaluate the amount of training required for a specific task.
  - Specific to a population
  - Limited to a specific task
  - Requires an expert criterion time for the task or previous times for example users
- Scoring PSUM
  - Participant data are coded as complete or incomplete
  - Must complete specified task in the criterion time

**METHOD**

- Instructed on how to send/receive text messages with device
- 5 minute training sessions, with sample messages for each device
- Last message in training sequence used for PSUM scoring (equation standardized)
- Messages were an equation; 4-digit number minus 17
- Two training sessions and two PSUM times for each device
- PSUM times were compared to the available time for responses in the planned experiment (criterion time: 30 seconds)

**RESULTS**

<table>
<thead>
<tr>
<th>Mean Completion Time (seconds)</th>
<th>Google Glass</th>
<th>Android</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Training</td>
<td>23.551</td>
<td>22.792</td>
</tr>
<tr>
<td>2nd Training</td>
<td>27.155</td>
<td>22.711</td>
</tr>
</tbody>
</table>

**DISCUSSION**

- Despite the newness of Google Glass
  - PSUM indicates 5 minutes of training with Glass is almost equal to that of Android in texting
  - Both Google Glass and Android show a performance decrement after the second 5 minute training
    - Redundant?
    - Excessive?
- Conclusions:
  - Larger experiment able to proceed
  - Participants require 5 minute tutorial in this design

**MATERIALS**

- Google Glass
- Samsung Galaxy Nexus

**ADDITIONAL DATA**

- n = 19
- 63.16% text and drive
- Have had personal experience with
  - Android 7
  - iPhone 14
  - Blackberry 8
- Tech use comfort level (1 to 7)
  - Average was 6.37

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- G.M. Hancock