Device for Maxillomandibular Fixation Following Facial Fractures

Week – November 25 – December 1

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Team Members: Ashley Phillips – Co Team Leader  
Nina Lewis – Co Team Leader  
Joe Ferris – Communications  
Sara Karle – BWIG  
Emily Maslonkowski – BSAC

Problem Statement
Currently, the most common technique of fixating the jaw after a facial fracture is called maxillomandibular fixation (MMF), which requires wiring the mouth shut with the use of arch bars and wires. It has been proposed to us to design a device which will mimic the function of MMF, but be easier and faster to apply while maintaining an adequate cost of application. Our design needs to securely hold the lower jaw tight to the upper jaw, but also needs to have an emergency quick release system. The device should also be safe for the patient during application and for the 4-6 weeks of healing.

Last Week’s Goals
• Put bracket design on the model skull  
• Compile the final report  
• Work on the power point slides for our final presentation  
• Practice our final presentation
Accomplishments

- All members continued with further refinements to individual sections of final paper
- Emily wrote a draft e-mail to send to Dr. Warner to send out to GC America
- All members met Monday evening and revised initial compilation of final report, glued brackets on model skull, completed powerpoint slides for poster presentation
- Ashley and Emily called GC America for information on their adhesives
- Each group member was assigned and practiced sections of presentation
- Ashley e-mailed client and discussed use of the wet adhesive as well as date, time, location of presentation
- All members met and completed poster presentation slides (Thu)

This Week’s Goals

- Individually complete sections of final report
- Compile and edit final report
- Set up appointment to meet with client

Difficulties

- Obtaining sample of wet adhesive
- Getting a hold of a representative at GC America

Activities/Accomplishments

<table>
<thead>
<tr>
<th>Group Member</th>
<th>Weekly Accomplishments</th>
<th>Time (hrs)</th>
<th>Running Total (hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashley Phillips</td>
<td>final paper revisions; progress report; group meetings, poster slides; contacting GC America; individual work on report; presentation practice</td>
<td>8.0</td>
<td>58.5</td>
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<tr>
<td>Nina Lewis</td>
<td>progress report; final paper revisions;</td>
<td>7.5</td>
<td>59.0</td>
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<tr>
<td>Name</td>
<td>Activities</td>
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<td>%</td>
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<tr>
<td>Sara Karle</td>
<td>group meetings, poster slides; individual work on report; presentation practice</td>
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<td>54.0</td>
</tr>
<tr>
<td>Emily Maslonkowski</td>
<td>final report revisions; wrote the draft e-mail; contacting GC America; individual work on report; presentation practice; poster slides; group meetings</td>
<td>7.5</td>
<td>55.0</td>
</tr>
<tr>
<td>Joe Ferris</td>
<td>final report revisions; group meetings; individual work on report; presentation practice; poster slides</td>
<td>7.0</td>
<td>54.0</td>
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