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**Interoffice Memorandum**

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**To:** Dr. Lee Childers, Department of Defense (DOD) Prosthetist, Project Sponsor  
Senior Design Judges

**From:** The Field Improvised eXoskeleton team (Kelly Liu, Duncan Dang,  
Karla Peñaloza, Emi Mondragon)

**Subject:** Error regarding the Field Improvised eXoskeleton (FIX) Final Project Report

**Date:** May 14th, 2021

**CC:** Dr. Emma Treadway, Team Advisor  
Dr. Darin George, Senior Design Administrator

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Thank you for your patience in reviewing the FIX team's Final Project Report. In this memo, we will be addressing the error found in the WBBS strap tug test results.

While reviewing our results, the FIX team has realized that the reported values seen in Table 5 (page 21) of the Final Project Report were not the correct values. The corrected values for the WBBS strap tug test can be seen in Table 1 below. In this case, the values for the displacement seen with the SAM splint and Modified Splint for 50 lbs have not changed, while the values at 100 lbs have been corrected. In particular, all of the values seen are now positive, which means that the fracture is being pushed further apart. Furthermore, the values at 100 lbs are more reasonable since the percent differences between the splints are no longer 0%, and the displacement at 100 lbs is larger compared to at 50 lbs. While our results have changed, the evaluation of our test has not. The WBBS strap tug test is still considered successful since the Modified Splint caused a smaller fracture displacement to occur compared to the SAM splint, as according to the acceptance criteria.

Overall, we hope that this memo has been able to address the error viewed on Page 21 of the Final Project Report. Feel free to reach back out to us if any other questions arise. Thank you for your time.

Table 1. WBBS Test Maximum Displacement Splint Modification and SAM splint Comparison

	SAM Splint (in)	Modified Splint (in)	Percent Difference (%)
50 lbs	0.0081	0.0048	-40.79
100 lbs	0.0161	0.0091	-43.33