



GoX Studio IRB Protocol for VO2 Algorithm Development

Achieved 95% accuracy when VO2 estimate (PKSE) was compared to results from Cosmed Fitmate Pro

IRB Protocol

IRB (ARL 15-103) approved 19 Jan 2016

1. Protocol Title: Human Integrated Performance Optimizer (HIPO)
2. Principal Investigator Name: Joseph Hitt, Ph.D.
3. Investigator's Institution: GoXstudio, LLC
4. Funding Source
 - Identify DoD Funding source: W91CRB-11-D-0004 0024
 - Contract Officer: Lisa Gregory
 - Award number: W91CRB-11-D-0004
5. Protocol Number: ARL 15-103

Venue: ASU Polytechnic Gait Lab

Subjects: 10 men and 10 women

Dates: June 16 –Aug 16

Inclusion Criteria:

- 18-35 years of age
- Veterans -Experience carrying heavy loads
- Fit for load and temperature

Day	Temperature, °F Ambient	Load as % of Body Weight	Distribution of Load
1		0	-
	104 –112	40%	Back
	104 –112	20%	Centered
	104 –112	40%	Centered
	104 –112	20%	Back
2		0	0
	75 -78	40%	Centered
	75 -78	20%	Centered
	75 -78	20%	Back
	75 -78	40%	Back

6. VO2 Estimate Method: Scosche HRM connected wearable motion and ambient temperature sensors, and proprietary algorithm.