### **DEPARTMENT OF HEALTH & HUMAN SERVICES**



# **Memorandum**

Date April 3, 2013

From Chair, NIOSH IRB (HSRB)

Subject Report of NIOSH IRB -- Protocol No. HSRB 13-OMSHR-02XP "Virtual Reality to Train and Assess Emergency Responders" Approval of Protocol

To Launa Mallett, Ph.D.

### **General Comments and IRB Actions**

I received your revised protocol (memo dated 3/23/2013) and find that it is responsive to the issues raised in my 3/14/2013 report for the subject protocol. Your protocol was reviewed using the expedited procedure in that it presents no more than minimal risk and involves a human factors evaluation (category 7) as provided for in 45CFR46.110. Your request for a waiver of documentation of informed consent is granted per 45CFR46.117 (c) (1) in "(1) that the only record linking the subject and the research would be the consent document and the principal risk would be potential harm resulting from a breach of confidentiality. Each subject will be asked whether the subject wants documentation linking the subject with the research, and the subject's wishes will govern. The revised protocol and consent document (dated 4/3/2013) are **approved** for one year and will serve as the documents of record for this study (renewal date 4/3/2014). However, if you make any substantive changes, or any adverse reactions occur in any study participants, please notify me immediately. Protocol incidents need to be reported to NIOSH IRB by phone or E-mail within 2 working days; and reported formally [send CDC form 0.1254 + 0.1379] within 2 weeks.

If you choose to make changes to your approved protocol, the changes must be reviewed and approved prior to implementation by submitting via hard copy CDC forms 0.1379 (signature page), 0.1252 (amendment request), 0.1370 (non CDC collaborator, if have), a clean copy of the revised protocol and a highlighted copy (track changes or pen/ink) of the revised protocol (all changes highlighted). Electronic submission of your amendment request may facilitate review, but it is not required. The general procedure for requesting annual continuing review is to send 45-60 days prior to renewal date completed hard copy forms CDC 0.1379 (signature page), 0.1251 (continuing review request), 0.1370 (non CDC collaborator, if have ), a copy of your current consent form (if consenting or recruiting currently). An electronic submission of your continuing review may facilitate review, but it is not required.

**Protocol Issues, Consent Form Issues, Addenda Issues –** None. **End of report** 

Mark A. Toraason, Ph.D.

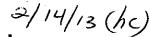
cc:

HSRB 13-OMSHR-02XP

0.1379

# Centers for Disease Control and Prevention

Date received



Annual - 4-03-14



# Signature Page for Human Research Review

Use this signature page when submitting HRPO forms to your center-level Human Subjects Contact. When submitting materials with these forms, please consecutively number all pages, beginning with the protocol title page and followed by consent form(s) and ancillary documents. See HRPO Guide: Overview for further details.

#### 1 Protocol identifiers

Leave protocol ID blank if not yet assigned.

CDC protocol ID: HSRB 13-0m514R-02XP Protocol version number \_1\_ version date 1/8/2013

Protocol title: Virtual Reality to Train and Assess Emergency Responders

Amendment number (if applicable):

#### 2 Key CDC personnel

	Name and degrees (FirstName LastName, Degrees)	User ID	SEV#	CDC NC/division
Primary contact (required)	Launa Mallett, Ph.D.	<u>ljm7</u>	<u>6980</u>	NIOSH/OMSHR
Principal investigator	Launa Mallett, Ph.D.	<u>ljm7</u>	6980	NIOSH/OMSHR

SEV # is CDC's Scientific Ethics Verification Number. CDC NC/division is the national center or equivalent and division or equivalent, or coordinating center or office if submitted at that level.

### 3 Forms submitted with this signature page

Check all that apply in the appropriate column.

### IRB-reviewed protocols

0.1250: Initial Review by IRB

0.1251: Continuing Review of Approved Protocol

2 0.1252: Review of Changes to Approved Protocol

0.1254: Incident Report

0.1254S: Supplemental Adverse Event Report

0.1253: End of Human Research Review

0.1370: CDC's Research Partners

■ 0.1371; CDC Rely on a Non-CDC IRB

0.1372: Outside Institution Rely on a CDC IRB

0.1373; CDC Cover an Individual Investigator

### **Exempted protocols**

0.1250X: Initial Review for Exemption

© 0.1251X: Continuing Review of Exempted Protocol

0.1252X: Review of Changes to Exempted Protocol

0.1253: End of Human Research Review

0.1370: CDC's Research Partners

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As principal investigator, I hereby accept responsibility for conducting this CDC-sponsored research project in an ethical manner, consistent with the policies and procedures contained in CDC's Procedures for Protection of Human Research Participants, and to abide by the principles outlined in federal policies for the protection of human subjects at 45 CFR part 46, 21 CFR part 50, and 21 CFR part 56.

Remarks Signature Principal CDC Investigator: auna Mallett PhD 1-9-2013

As a supervisor of the principal investigator, I hereby accept responsibility for ensuring that this CDC-sponsored research project is conducted in an ethical manner, consistent with the policies and procedures contained in CDC's Procedures for Protection of Human Research Participants, and to abide by the principles outlined in federal policies for the protection of human subjects at 45 CFR part 46, 21 CFR part 50, and 21 CFR part 56.

Signature Date Remarks Check if PI is Team Lead: Team Lead: Cauna Vallett PhD 1-9-2013 Branch Official (e.g., Chief or Senior Scientist): Check if PI is Branch Official: Check if PI is Division Official:

I concur that this CDC-sponsored research project is consistent with the policies and procedures contained in CDC's Procedures for Protection of Human Research Participants and with other applicable CDC and national center policies.

Signature National Center Human Subjects Contact: Date 4-3-13 Remarks Warner of Documentation

Additional comments

5

Other Clearance Official: (e.g., Confidentiality Officer, Coordinating Center/Office Official)

> Expedited Review; Minimal Risk; as provided for in 45CFR 46.110 (b)(1) category(s)\_

Approved for one year; Renewal date CDC 0.1250 form estimated subject # Is Subject # to date is

Approved/Amended Total Subject # is

### 6 Reminder regarding other regulatory clearance processes

The principal investigator is responsible for obtaining other regulatory reviews as needed, which may include OMB clearance under the Paperwork Reduction Act (PRA) for federally sponsored information collections. Approval by or exemption from the IRB is unrelated to OMB clearance requirements under the PRA. For more information on whether your study requires clearance under PRA or other regulations, please consult the appropriate officials within your national center.

Date received



# Request for Initial Review by an Institutional Review Board

2/14/13 (pc) 2/6/13 (dec)

Use this form to submit a protocol for its first review by a CDC IRB or a non-CDC IRB. If seeking review by a non-CDC IRB, also include form 0.1371. See *HRPO Guide: IRB Review Cycle* for further details on how to complete this form.

# 1 Protocol identifiers

Leave protocol ID blank if not yet assigned.

CDC protocol ID: HSRB 13-0ms/4R-02XP

Protocol version number 1 version date 1/8/2013

Protocol title: Virtual Reality to Train and Assess Emergency Responders

Suggested keywords (optional). Enter each term in a separate cell:

training

mining

# 2 Key CDC personnel

·	Name and degrees (FirstName LastName, Degrees)	User ID	SEV#	CDC NC/division
Primary contact (required)	Launa Mallett, Ph.D.	<u>ljm7</u>	6980	NIOSH/OMSHR
Principal investigator (required)	Launa Mallett, Ph.D.	<u>ljm7</u>	6980	NIOSH/OMSHR
Investigator 2	Michael Brnich, Jr., B.S., CMSP	tzb9	<u>14987</u>	NIOSH/OMSHR
Investigator 3	Erica Hall, M.S.	eoh7	<u>16954</u>	NIOSH/OMSHR
Investigator 4	Timothy Bauerle, M.A.	<u>wjo6</u>	<u>16598</u>	NIOSH/OMSHR
Investigator 5	Jacqueline Jansky	jg <u>i7</u>	13769	NIOSH/OMSHR

SEV # is CDC's Scientific Ethics Verification Number. CDC NC/division is the national center (or equivalent) and division (or equivalent), or coordinating center or office if submitted at that level.

List all other CDC investigators, if any (name and degrees, user ID, SEV #, CDC NC/division):

# 3 CDC's role in project

Check yes or no for each of the following.

- CDC employees or agents will obtain data by intervening or interacting with participants.
- Ey Mn CDC employees or agents will obtain or use identifiable (including coded) private data or biological specimens.
- 🔀 y 📓 CDC employees or agents will obtain or use anonymous or unlinked data or biological specimens.
- My In CDC employees will provide substantial technical assistance or oversight.
- 🔀 CDC employees will participate as co-authors in presentation(s) or publication(s).

"Agents" includes on-site contractors, fellows, and others appointed or retained to work at a CDC facility conducting activities under the auspices of CDC.

4 CDC's	research	partners
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Research partners include all direct and indirect recipients of CDC funding (e.g., grants, cooperative agreements, contracts, subcontracts, purchase orders) and other CDC support (e.g., identifiable private information, supplies, products, drugs, or other tangible support) for this research activity, as well as collaborators who do not receive such support. See HRPO Guide: CDC's Research Partners for further details. Check one of the following.

No research partners.

Research partners are listed on form 0.1370, which accompanies this form.

### 5 Study participants—planned demographic frequencies

Report estimated counts (rather than percentages), Include participants at domestic and foreign sites. See HRPO Guide: IRB Review Cycle for definitions.

Number of participants	<u>150</u>
Location of participants Participating at domestic sites Participating at foreign sites	150 0
Sex/Gender of participants Female Male Sex/gender not available	0 0 150
Ethnicity of participants Hispanic or Latino Not Hispanic or Latino Ethnicity not available	0 0 150
Race of participants American Indian or Alaska Native Asian Black or African American Native Hawaiian or Other Pacific Islander White More than one race Race not available	$\begin{array}{c} \underline{0} \\ \underline{150} \end{array}$

Comments on demographics

Demographics are not available. There is little gender, ethnic, or racial diversity in the study population. Therefore, most participates are likely to be white males.

### Regulation and policy 6

## Mode of IRB review on CDC's behalf

Location	of	IRB	(check	one):
<b>14-14</b>				

CDC IRB

Non-CDC IRB through IRB authorization agreement [submit form 0.1371]

Institution or organization providing IRB review:

IRB registration number (if known):

Federalwide assurance number (if any):

Suggested level	of risk to subjects (check one):				٠		
Minimal							
Greater than	minimal						
	of IRB review (check one):						
	ksheet for Expedited Review for d of review that you think is appr					B, please indica	ite
Convened-bo	oard review is suggested						
	Not eligible for expedited revie drug, biologic, or device under x-rays or microwaves; anesthes	IND or IDE;	involves co	llection of la	inimal ris rge amou	sk; involves use int of blood; use	of of
	Other specified reason:		·=				
X Expedited re	view is suggested, under the follo	wing catego	ries (check a	all that apply)	:		
🗿 1a	Study of drugs not requiring In-	vestigational	New Drug	exemption fro	m FDA		
🖺 1b	Study of medical devices not re						
📶 2a	Collection of blood from health	y, nonpregna	int adults; b	elow volume	limit, mi	nimally invasiv	e
<b>3</b> 2b	Collection of blood from other adults and children; below volume limit, minimally invasive						
3	Prospective noninvasive collect	· <del>-</del>	<del>-</del>				
<b>5</b> 4	Collection of data through routine, noninvasive procedures, involving no general anesthesia, sedation, x-rays, or microwaves						
5	Research that uses previously c	ollected mate	erials				•
<b>a</b> 6	Collection of data from voice, v	ideo, digital,	or image re	cordings mad	de for res	earch purposes	
<b>X</b> 7	Research that uses interview, pr	rogram evalu	ation, huma	n factors, or	quality as	ssurance method	ds
	populations	ř					
	intention to include each of the f page(s) where inclusion or exclusion				ose one o	option in each re	ow,
		Targeted	Allowed	Excluded	NA	Page(s)	
Pregnar	nt women or fetuses	鳘	M				
Children (including viable neonates)							
Prisone	Prisoners 🗷 🗷 🔯						
Describe other g	roups of potentially vulnerable su ty or nonviable neonates, persons	bjects intend with mental	led to be inc disabilities,	cluded or excl or persons w	uded, su ith econ	ch as neonates o omic or educati	of ona

al disadvantages.

Pregnant women: As mentioned in the IRB Protocol, the study is open to rank-and-file miners, mine rescue team members, mine safety professionals, and miner training instructors. Based on the demography of these populations, it is reasonable to expect that most participants in the current study will be white males. However, because the training will come at a minimal risk, and because we have no reason to suspect that pregnant women will be at any increased risk compared other participants in the study, pregnant women will be allowed to participate in the study.

6.2

# 6.3 Free and informed consent

Characterize requested changes to required features of the informed consent process. If a waiver is requested, enter the page number of the protocol where the waiver is justified.

	Which exceptions to the consent process are requested? Check all that apply:	
	Waiver or alteration of elements of informed consent for adults	pg
	Waiver of assent for children capable of providing assent	pg
	Waiver of parental permission	pg
	Which exceptions to documentation of informed consent are requested? Check all that app	ly:
	Waiver of documentation of informed consent for adults	pg/ <u>7</u>
	Waiver of documentation of assent for children capable of providing assent	pg
	Waiver of documentation of parental permission	pg
	Waiver or alteration of authorization under HIPAA Privacy Rule	pg
	How is it shown that the consent process is in understandable language? Check all that app	ly:
	🖼 Reading level has been estimated	pg
	Comprehension tool is provided	pg
	Short form is provided	pg
	Translation planned or performed	
	Certified translation/translator	pg
	Translation and back-translation to/from target language(s)	pg
	Other method (specify:)	pg
6.4	Other regulation and policy considerations	
	Check all that apply.	
	If requesting the exception to the PHS policy on informing those tested about HIV serostat of the protocol where the waiver is justified.	us, enter the page number
	Exception is request to PHS informing those tested about HIV serostatus.	pg
	Human genetic testing is planned now or in the future.	
	This study includes a registrable clinical trial.	
	This study involves long-term storage of identifiable biological specimens.	
	This study involves a drug, biologic, or device.	
	See HRPO Worksheet to Determine FDA Regulatory Coverage for guidance on w regulations apply.	hether or not FDA
	This study will be conducted under an Investigational New Drug (IND) exemption or In Exemption (IDE).	nvestigational Device
	IND/IDE number(s):	
6.5	Confidentiality protections	•
	If at least one research site is within the US, then check either Granted, Pending, or No in e within the US, then check NA in each row.	ach row. If no sites are
	Granted Pending No NA	
	Certificate of Confidentiality (301(d))	
	Assurance of Confidentiality (308(d))	

Describe any other formal confidentiality protections that are planned or are in place:

# 7 Material submitted with this form

Check all that apply. Describe additional material in the comments section.

- Complete protocol
- Peer reviewers' comments or division waiver (NIOSH)
- Consent, assent, and permission documents or scripts
- Other information for recruits or participants (e.g., ads, brochures, flyers, scripts)
- ☑ Data collection instruments (e.g., questionnaires, interview scripts, record abstraction tools)
- Certification of IRB approval or exemption for research partners

# 8 Additional comments