

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service Centers for Disease Control and Prevention (CDC)

Memorandum

Date November 15, 2023

From Suzanne E. Tomasi, DVM, MPH, DACVPM

IRB Reviewer, NIOSH Institutional Review Board

Subject IRB Approval of New NIOSH Protocol 23-NIOSH-04, "Assessing Fatigue and Fatigue

Management in U.S. Onshore Oil and Gas Extraction" (Expedited)

To Alejandra Ramirez-Cardenas, MPH

Project Officer, NIOSH/WSD

The NIOSH IRB reviewed the new protocol 23-NIOSH-04, "Assessing Fatigue and Fatigue Management in U.S. Onshore Oil and Gas Extraction." The IRB determined the study poses minimal risk to subjects. The protocol was reviewed in accordance with the expedited review process outlined in 45 CFR 46.110(b)(1), category (4) and (7). Continued review is not required for this protocol since it is eligible for expedited review.

The request for waiver of documentation of informed consent is granted per 45 C.F.R. 46.117 (c)(1).

Due to the funding and collection of identifiable, sensitive information the project is determined to be covered by a Certificate of Confidentiality under section 301(d) of the Public Health Service Act.

The subjects must have attained the legal age for consent to procedures involved in the research, under the applicable law of the jurisdiction(s) in which the research will be conducted.

If other institutions involved in this protocol are being awarded NIOSH funds through the CDC Procurement and Grants Office (PGO), you are required to send a copy of this IRB approval to the CDC PGO award specialist handling the award. You are also required to verify with the award specialist that the awardee has provided PGO with the required documentation and has approval to begin or continue research involving human subjects as described in this protocol.

Investigators are required to report incidents to the HRPP in accordance with CDC/NIOSH policy and procedure. Any proposed changes to the protocol should be submitted as an amendment to the protocol for NIOSH IRB approval before they are implemented.

If you have any questions, please contact the NIOSH Human Research Protection Program (513) 533-8591 or e-mail: <u>NIOSH IRB Mailbox</u>.



Request for Initial Review by an Institutional Review Board

Use this form to submit a protocol for its first review by a CDC IRB or a non-CDC IRB. See *HRPO Guide: Non-Exempt Review Cycle* for further details on how to complete this form.

1 Protocol identifiers		
Leave protocol ID blank if not yet assign CDC protocol ID: 23-NIOSH-04 Assessing Fatigue and Fat	ed. Protocol version number $\frac{1}{1}$ gue Management in U.S. Onshore Oil and O	1/14/2023
Protocol title:		
Suggested keywords (optional). Enter eac Oil and Gas Industry	ch term in a separate cell: Actigraphy	
Fatigue	Sleep	

2 Key CDC personnel

	Name and degrees (FirstName LastName, Degrees)	User ID	CITI Course Expiration Date	CDC CIO/Division
Primary Contact (required)	Alejandra Ramirez-Cardenas. MPH	nxa5	06/27/2026	NIOSH/WSD
Principal Investigator (required)	Alejandra Ramirez-Cardenas. MPH	nxa5	06/27/2026	NIOSH/WSD
Co-Investigator	Imelda Wong, PhD	kwn0	05/29/2025	NIOSH/DSI
Co-Investigator	Kenneth Scott, PhD	snx4	10/28/2024	NIOSH/WSD
Co-Investigator	David Caruso	ake3	01/21/2025	NIOSH/WSD
Co-Investigator	Kaitlin Wingate, MPH	ofm8	07/18/2026	NIOSH/WSD

CITI Course Expiration Date is the latest expiration date for the CITI Biomedical Research and RCR Combined or Social & Behavioral Research and RCR Combined course required by CDC (expires every 3 years). An expiration date must be entered for each investigator. If required training is expired or found expired before IRB review, the protocol will not be reviewed or placed on administrative hold (e.g. cease processing for approval) by HRPO until requirements are met.

List all other CDC investigators or staff engaged in the conduct of the research, if any (name and degrees, user ID, CITI Course Expiration Date, CDC CIO/division):

Cammie Menendez fxf8 9/10/2024 NIOSH-DSR Ryan Hill MPH gii9 1/17/2025 NIOSH-WSD Bradley King PhD bfk2 12/12/2024 NIOSH-WSD Kendra Broadwater xgh1 1/10/2026 NIOSH-WSD Barbara Alexander PhD vot3 4/13/2023 NIOSH-DFSE Christa Hale hgk5 2/11/2025 NIOSH-WSD John Snawder PhD jts5 7/11/2025 NIOSH-WSD Eric Esswein PhD eje1 6/24/2025 NIOSH-WSD

3	CDC's role in proje	ect
Che	ck yes or no for each of the foll	owing.
Xy	n *CDC employees or agents	s will obtain data by intervening or interacting with participants.
y	X n *CDC employees or agents	s will obtain or use identifiable (including coded) private data or biological specimens
	*NOTE: If both options above	e are checked "NO" this does not meet the requirement for reliance on a Non-CDC IRB
у	⊠ _n CDC employees or agents	will obtain or use anonymous or unlinked data or biological specimens.
\mathbf{X}_{y}	☐ _n CDC employees will provi	de substantial technical assistance or oversight.
\mathbf{X}_{y}	☐ _n CDC employees will partic	cipate as co-authors in presentation(s) or publication(s).
_	ents" includes on-site contractors, fellow r the auspices of CDC.	ws, and others appointed or retained to work at a CDC facility conducting activities
4	Study Subjects	
Rep	ort estimated counts (rather than	n percentages). Include study subjects at domestic and foreign sites.
	Total count of study subjects:	90
	Comments on demographics	The convenience samples will include OGE workers, field-level supervisors, senior H&S leadership, and scientific researchers who are SMEs in occupational fatigue. OGE workers are predominantly males ages 18 and older. The sample is expected to be similar to the workforce as a whole, which is predominantly non-Hispanic white with Hispanic workers being the second largest racial/ethnic group. OGE work is concentrated where there are shale formations across the U.S.
5	Regulation and po	licv
		-
		e of IRB review on CDC's behalf
	Location of IRB (check one):	
	☑ CDC IRB	
		B authorization agreement [submit form 0.1371]
	T	ili IDD
	Institution or organization prov	iding IRB review:
	IRB registration number:	
	Federal-wide assurance number	
	Suggested level of risk to subje	cts (cneck one):
	⋈ Minimal	
	Greater than minimal	
	Suggested level of IRB review	
	Convened-board review is	
	drug, biologic, or device un	ited review. For example, poses greater than minimal risk; involves use of nder IND or IDE; involves collection of large amount of blood; use of x-rays or physically invasive procedures
	Other specified reason:	

Expedited review is suggested, under the 1a Study of drugs not requiring Inv 1b Study of medical devices not re 2a Collection of blood from health 2b Collection of blood from other a Prospective noninvasive collect 4 Collection of data through routi sedation, x-rays, or microwaves Research that uses previously collect 6 Collection of data from voice, v Research that uses interview, pr	vestigational quiring Investy, non-pregnadults and chion of biologine, noninvastical publicated materideo, digital,	New Drug of tigational I ant adults; I ildren; belo ical specim ive procedu rrials or image re	exemption from the control of the co	om FDA otion from e limit, mi nit, minim rch purpos g no genes	inimally invasive ses ral anesthesia earch purpose	s
5.2 Additional Consideration	ıs					
Indicate the extent to which the following pop in each row, and indicate the page(s) where in						
	Targeted	Allowed	Excluded	NA	Page(s)	
Pregnant women or fetuses			X		41	
Prisoners			П	×		
Children (including viable neonates)	$\overline{\Box}$		_	×		
5.3 Informed consent Characterize requested changes to required feether the page number of the protocol where the which exceptions to the consent process are the consent process.	the waiver is	justified.		ss. If a wa	niver is reques	ted,
Waiver or alteration of elements of inform	-				pg	
Waiver of assent for children capable of p					pg	
Waiver of parental permission					pg	
Which exceptions to documentation of inform Waiver of documentation of informed cor Waiver of documentation of assent for ch Waiver of documentation of parental pern Waiver or alteration of authorization under	nsent for adul ildren capabl nission	ts e of providi		that apply		
How is it shown that the consent process is in	understanda	ble languag	ge? Check all	that apply	y:	
■ Reading level has been estimated				·		47
					pg	60
Short form is provided					pg	
▼ Translation planned or performed						
Certified translation/translator					pg	n/a
☐ Translation and back-translation to/from target language(s) pg						
	Other method (specify:) pg					

5.4 Other regulation and policy considerations	
Check all that apply.	
If requesting the exception to the PHS policy on informing those tested about HIV serostatus, enter the pag	;e
number of the protocol where the waiver is justified.	
Exception is request to PHS informing those tested about HIV serostatus.	
Human genetic testing is planned now or in the future.	
This study is 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 whether or not FDA regulations apply.	
This study will be conducted under an Investigational New Drug (IND) exemption or Investigational D Exemption (IDE).	evice
IND/IDE number(s):	
5.5 Confidentiality protections	
CDC supported research commenced or ongoing after December 13, 2016 and in which identifiable, sensiti information is collected, as defined by Section 301(d) of the Public Health Service (PHS) Act, is deemed is a Certificate of Confidentiality and therefore required to protect the privacy of individuals who are subjects such research. Indicate one of the following:	sued
Not applicable	
Certificate of Confidentiality maybe applicable to study; pg 77 of the protocol where the protect are described.	ions
Additional Comments:	
E.C. Oliniaal Trial	
5.6 Clinical Trial	
Is this a clinical trial? Yes No Clinical trial means a research study in which one or more human subjects are prospectively assigned to on	ne or
more interventions (which may include placebo or other control) to evaluate the effects of the interventions biomedical or behavioral health-related outcomes.	
Please answer the following questions. If the answers to the 4 questions are yes, the study meets the defini	tion
of a clinical trial.	
$\prod_{y} \prod_{n}$ Are the participants prospectively assigned to an intervention?	
$\prod_{y} \prod_{n}$ Is the study designed to evaluate the effect of the intervention on the participants?	
$\bigcup_{y} \bigcup_{n}$ Is the effect being evaluated a health-related biomedical or behavioral outcome?	
Studies intended solely to refine measures are not considered clinical trials. Studies that involve secondary research with biological specimens or health information are not clinical trials.	alc
Studies that involve secondary research with biological specimens of health information are not entired that	215.
6 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)	

CDC Form 0.1255 Version 4.4 2020-04-06

Certification of IRB approval or exemption for research partners

7 Additional comments

All materials included in the appendeces of the protocol.

8 Research partners

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.
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Research partners

Additional partners are listed on ancillary 1370 form

Partner 1

Institution name: University of Colorado, School of Public Health

Institution location: Denver, CO

Individual name (IIA only): Natalie Schwatka, Karely Villareal Hernandez

Reporting status: Initial Report

Regulatory coverage: Engaged/Non-Exempt

Financial support: Other Funding

Support award number: Support end date:

Non-financial support: [Enter Status Here]

FWA number:

HS Training (IIA only): [Enter Status Here] IRB review status: Relying on CDC IRB

IRB approval expiration date:

Comments: Fully executed NIOSH IRB Authorization Agreement 1372Ac 9/27/2023

Partner 2

Institution name: Emeritus Health and Safety LLC

Institution location: Denver, CO

Individual name (IIA only): Eric Esswein

Reporting status: Initial Report

Regulatory coverage: Engaged/Non-Exempt Financial support: Contract/Sub-Contract

Support award number: Support end date:

Non-financial support: [Enter Status Here]

FWA number:

HS Training (IIA only): CITI Human Subject Training-Y

IRB review status: Relying on CDC IRB

IRB approval expiration date:

Comments: Individual Investigator Agreement fully executed 8/30/2023

Partner 3

Institution name: Synergy America

Institution location:

Individual name (IIA only): John Snawder, Katilin Wingate

Reporting status: Initial Report

Regulatory coverage: [Enter Status Here] Financial support: Contract/Sub-Contract

Support award number: Support end date:

Non-financial support: [Enter Status Here]

FWA number:

HS Training (IIA only): CITI Human Subject Training-Y

IRB review status: Relying on CDC IRB

IRB approval expiration date:

Comments: 1372Ac fully executed 5/9/2023

Partner 4

Institution name:

Institution location:

Individual name (IIA only):

Reporting status: [Enter Status Here]
Regulatory coverage: [Enter Status Here]
Financial support: [Enter Status Here]

Support award number: Support end date:

Non-financial support: Other Tangible Support

FWA number:

HS Training (IIA only): [Enter Status Here] IRB review status: [Enter Status Here]

IRB approval expiration date:

Comments:

9 Signatures

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.

Signature	Date	Remarks
Principal CDC Investigator:	02/08/2022	
Alejandra Ramirez- Ramirez- Ramirez-cardenas -S Date: 2023.11.14 13:47:13 -07'00'	02/08/2 <u>023</u>	
As a supervisor of the principal investigator, research project is conducted in an ethical m <i>Procedures for Protection of Human Resear</i> policies for the protection of human subjects	anner, consistent with the poch Participants, and to abide	olicies and procedures contained in CDC's by the principles outlined in federal
Signature	Date	Remarks
Team Lead:		Check if PI is Team Lead:
Branch Official (e.g., Chief or Senior Scientist	t):	Check if PI is Branch Official:
Division Official (e.g., Director or ADS):		Check if PI is Division Official:
Rebecca Digitally signed by Rebecca Guerin -S Date: 2023.11.14 16:18:18 -05'00'	11/14/2 <u>023</u>	
I concur that this CDC-sponsored research pro Procedures for Protection of Human Research policies.		
Signature	Date	Remarks
National Center Human Subjects Contact:		
Other Clearance Official: (e.g., Confidentiality Officer, Coordinating Center/Office Official)		