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DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention

60Day-15-0964

[Docket No. CDC-2015-0038]

Proposed Data Collection Submitted for Public Comment and Recommendations

AGENCY: Centers for Disease Control and Prevention (CDC),
Department of Health and Human Services (HHS)

ACTION: Notice with comment period

SUMMARY: The Centers for Disease Control and Prevention (CDC), as part of its continuing efforts to reduce public burden and maximize the utility of government information, invites the general public and other Federal agencies to take this opportunity to comment on proposed and/or continuing information collections, as required by the Paperwork Reduction Act of 1995. This notice invites comment on a proposed reinstatement of an

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information collection entitled "Interventions to Reduce Shoulder MSDs in Overhead Assembly". This information collection is part of a study to assess the effectiveness and cost-benefit of occupational safety and health (OSH) interventions to prevent musculoskeletal disorders (MSDs) among workers in the Manufacturing (MNF) sector.

DATES: Written comments must be received on or before [INSERT DATE 60 DAYS AFTER PUBLICATION DATE IN THE FEDERAL REGISTER].

ADDRESSES: You may submit comments, identified by Docket No. CDC-2015-0038 by any of the following methods:

Federal eRulemaking Portal: <u>Regulation.gov</u>. Follow the instructions for submitting comments.

Mail: Leroy A. Richardson, Information Collection Review Office, Centers for Disease Control and Prevention, 1600 Clifton Road, N.E., MS-D74, Atlanta, Georgia 30329.

Instructions: All submissions received must include the agency name and Docket Number. All relevant comments received will be posted without change to <a href="Regulations.gov">Regulations.gov</a>, including any personal information provided. For access to the docket to read background documents or comments received, go to <a href="Regulations.gov">Regulations.gov</a>.

Please note: All public comment should be submitted through the Federal eRulemaking portal (Regulations.gov) or by U.S. mail to the address listed above.

FOR FURTHER INFORMATION CONTACT: To request more information on the proposed project or to obtain a copy of the information collection plan and instruments, contact the Information Collection Review Office, Centers for Disease Control and Prevention, 1600 Clifton Road, N.E., MS-D74, Atlanta, Georgia 30329; phone: 404-639-7570; E-mail: omb@cdc.gov.

## SUPPLEMENTARY INFORMATION:

Under the Paperwork Reduction Act of 1995 (PRA) (44 U.S.C. 3501-3520), Federal agencies must obtain approval from the Office of Management and Budget (OMB) for each collection of information they conduct or sponsor. In addition, the PRA also requires Federal agencies to provide a 60-day notice in the Federal Register concerning each proposed collection of information, including each new proposed collection, each proposed extension of existing collection of information, and each reinstatement of previously approved information collection before submitting the collection to OMB for approval. To comply

with this requirement, we are publishing this notice of a proposed data collection as described below.

Comments are invited on: (a) Whether the proposed collection of information is necessary for the proper performance of the functions of the agency, including whether the information shall have practical utility; (b) the accuracy of the agency's estimate of the burden of the proposed collection of information; (c) ways to enhance the quality, utility, and clarity of the information to be collected; (d) ways to minimize the burden of the collection of information on respondents, including through the use of automated collection techniques or other forms of information technology; and (e) estimates of capital or start-up costs and costs of operation, maintenance, and purchase of services to provide information. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; to develop, acquire, install and utilize technology and systems for the purpose of collecting, validating and verifying information, processing and maintaining information, and disclosing and providing information; to train personnel and to be able to respond to a collection of information, to search data sources, to complete

and review the collection of information; and to transmit or otherwise disclose the information.

## Proposed Project

Interventions to Reduce Shoulder MSDs in Overhead Assembly - Reinstatement - (OMB Control No. 0920-0964, Expired 4/30/2015), National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC).

## Background and Brief Description

The mission of the National Institute for Occupational Safety and Health (NIOSH) is to promote safety and health at work for all people through research and prevention. Under Public Law 91-596, sections 20 and 22 (Section 20-22, Occupational Safety and Health Act of 1970), NIOSH has the responsibility to conduct research to advance the health and safety of workers. In this capacity, NIOSH proposes a reinstatement for a study to assess the effectiveness and costbenefit of occupational safety and health (OSH) interventions to prevent musculoskeletal disorders (MSDs) among workers in the Manufacturing (MNF) sector. The original information collection request expired on April 30, 2015. A reinstatement is being requested in order to allow the program to resume the data collection activities.

MSDs represent a major proportion of injury/ illness incidence and cost in the U.S. Manufacturing (MNF) sector. In 2008, 29% of non-fatal injuries and illnesses involving days away from work (DAW) in the MNF sector involved MSDs and the MNF sector had some of the highest rates of MSD DAW cases. The rate for the motor vehicle manufacturing sub-sector (NAICS 3361) was among the highest of MNF sub sectors, with MSD DAW rates that were higher than the general manufacturing MSD DAW rates from 2003-2007.

In automotive manufacturing overhead conveyance of the vehicle chassis requires assembly line employees to use tools in working postures with the arms elevated. These postures are believed to be associated with symptoms of upper limb discomfort, fatigue, and impingement syndromes (Fischer et al., 2007). Overhead working posture, independent of the force or load exerted with the hands, may play a role in the development in these conditions.

However, recent studies suggest a more significant role of localized shoulder muscle fatigue in contributing to these disorders. Fatigue of the shoulder muscles may result in changes in normal shoulder kinematics (motion) that affect risk for shoulder impingement disorders (Ebaugh et. al., 2006; Chopp et al., 2010).

The U.S. Manufacturing sector has faced a number of challenges including an overall decline in jobs, an aging workforce, and changes in organizational management systems. Studies have indicated that the average age of industrial workers is increasing and that older workers may differ from younger workers in work capacity, injury risk, severity of injuries, and speed of recovery (Kenny et al., 2008; Gall et al., 2004; Restrepo et al., 2006). As the average age of the industrial population increases and newer systems of work organization (such as lean manufacturing) are changing the nature of labor-intensive work, prevention of MSDs will be more critical to protecting older workers and maintaining productivity.

This study will continue to evaluate the efficacy of two intervention strategies for reducing musculoskeletal symptoms and pain in the shoulder attributable to overhead assembly work in automotive manufacturing. These interventions are, (1) an articulating spring-tensioned tool support device that unloads from the worker the weight of the tool that would otherwise be manually supported, and, (2) a targeted exercise program intended to increase individual employees' strength and endurance in the shoulder and upper arm stabilizing muscle group. As a primary prevention strategy, the tool support engineering control approach is preferred; however, a cost-

efficient opportunity exists to concurrently evaluate the efficacy of a preventive exercise program intervention. Both of these intervention approaches have been used in the Manufacturing sector, and preliminary evidence suggests that both approaches may have merit. However, high quality evidence demonstrating their effectiveness, by way of controlled trials, is lacking.

This project will be conducted as a partnership between NIOSH and Toyota Motors Engineering & Manufacturing North America, Inc. (TEMA), with the intervention evaluation study taking place at the Toyota Motor Manufacturing Kentucky, Inc. (TMMK) manufacturing facility in Georgetown, Kentucky. The prospective intervention evaluation study will be conducted using a group-randomized controlled trial multi-time series design. Four groups of 25-30 employees will be established to test the two intervention treatment conditions (tool support, exercise program), a combined intervention treatment condition, and a control condition. The four groups will be comprised of employees working on two vehicle assembly lines in different parts of the facility, on two work shifts (first and second shift). Individual randomization to treatment condition is not feasible, so a group-randomization (by work unit) will be used to assign the four groups to treatment and control conditions. Observations will be made over the 10-month study period and

questionnaires will include the Shoulder Rating Questionnaire (SRQ), Disabilities of the Arm, Shoulder and Hand (DASH) questionnaire, a Standardized Nordic Questionnaire for body part discomfort, and a Work Organization Questionnaire. In addition to the questionnaires, a shoulder-specific functional capacity evaluation test battery will be administered at 90 and 210 days, immediately pre- and post-intervention, to confirm the efficacy of the targeted exercise program in improving shoulder capacity.

In summary, this study will evaluate the effectiveness of two interventions to reduce musculoskeletal symptoms and pain in the shoulder associated with repetitive overhead work in the manufacturing industry. In addition, NIOSH will disseminate the results of evidence-based prevention practices to the greatest audience possible. NIOSH expects to complete all data collection by 2018. There is no cost to respondents other than their time.

## Estimated Annualized Burden Hours

Type of	Form Name	No. of	No. of	Avg.	Total
Respondents		Respondents	Responses	Burden	Burden
			per	per	(in
			Respondent	Response	hrs.)
				(in	
				hrs.)	
Employees	PAR-Q (Physical	125	1	2/60	4
	Activity				
	Readiness)				
Employees	Shoulder rating	125	10	4/60	83
	Questionnaire				
	(SQR				

Employees	Disabilities of Arm Shoulder and Hand (DASH)	125	10	6/60	125
Employees	Standardized Nordic Questionnaire for Musculoskeletal Symptoms	125	10	4/60	83
Employees	Work Org Questionnaire	125	3	26/60	163
Total					458

Leroy A. Richardson,

Chief, Information Collection Review Office,

Office of Scientific Integrity,

Office of the Associate Director for

Science,

Office of the Director,

Centers for Disease Control and Prevention.

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