



RESEARCH AND WORKPLACE INNOVATION PROGRAM

2017 Report on Projects

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OVERVIEW OF REPORT

This Report provides an update on the activities of the Research and Workplace Innovation Program (RWIP) in 2017. The Report is organized into four sections:

- New Grants Awarded
- Completed Projects
- Projects in Progress
- RWIP Approved Projects 2009 to 2017.

The RWIP offers grants on an annual and competitive basis to support projects on injury prevention, occupational diseases and illnesses and return to work of injured workers. Funding is awarded under three core funding streams:

- Scientific Research
- Training and Education
- Workplace Innovation.

Established in 2009, the RWIP makes available \$1 million in funding each year. Seventy-two projects were funded over the last nine years. Appendix A shows RWIP Approved Projects from 2009 to 2017.



NEW GRANTS AWARDED IN 2017

SCIENTIFIC RESEARCH

MINDFULNESS BASED INTERVENTION AS A KEY COMPONENT OF SUCCESSFUL WORKPLACE FUNCTIONING AND PERSONAL WELL-BEING FOR FREQUENTLY ABSENT EMPLOYEES

Michael McIntyre,
*St. Boniface Hospital
Research Centre*

\$169,626

This study will implement and evaluate the efficacy of the Mindfulness Based Stress Reduction (MBSR) program among workers in *Actionmarguerite* who experience frequent workplace injuries, re-injury, recurrent illnesses and absences from work. *Actionmarguerite* is a healthcare facility that provides complex-care services to the elderly and people with disabilities. The study's goal is to promote physical and psychological well-being and successful Return to Work for this group of workers. The study will utilize a 12-scale experimental design to assess the impact of the MBSR program on recurrent work-related injuries and illnesses.

THE EPIDEMIOLOGY AND MULTI-DISCIPLINARY MANAGEMENT OF WORK-RELATED CONCUSSION – HOW CAN WE MEET THE NEEDS OF MANITOBA'S WORKERS?

Kelly Russell, Michael Ellis,
Lesley Ritchie, James
Bolton, Jeffrey Leiter,
University of Manitoba

\$199,273

This study will utilize a prospective case series research design to identify clinical risk factors, changes in post-concussion symptoms, post-injury mental health outcomes, Return to Work status and long-term disability. The study's outcomes will include the creation of uniform and standardized datasets that will enable a deeper analysis of the nature of these injuries and impacts on Return to Work. Work-related concussion claims are an emerging issue at the WCB and case management of these claims is challenging as there is little data related to concussion and Return to Work.

WORKPLACE DIESEL EXHAUST EXPOSURE: DEFINING A BIOSIGNATURE TO SUPPORT PREVENTION

Chris Carlsten,
*University of British
Columbia and
Neeloffer Mookerjee,
University of Manitoba*

\$198,400

This study will create a clinically relevant measure to assess the impact of diesel exhaust (DE) exposure on workers' lung health. Using proteomic analysis, the study will explore biomarkers of DE exposures to define the relationship between exposure concentrations and the effects on blood, urine and respiration. The proposed research will help inform occupational exposure limits for DE and the outcomes could lead to a mechanism that would improve prevention of occupational cancers and pre-existing workplace asthma. The study team will utilize the new protein mapping facility at the Manitoba Centre for Proteomics and Systems Biology, University of Manitoba, and the exposure chamber at the Air Pollution Exposure Laboratory in Vancouver.



TRAINING AND EDUCATION

ELECTRICAL SAFETY FOR THE ELECTRICAL WORKER

*Electrical Association
of Manitoba Inc.*

\$164,900

This project will establish a suite of training courses to help reduce the risk of injury due to electricity. Safety Services Manitoba, electrical experts and the Electrical Association of Manitoba will collectively develop the training program. All training will meet or exceed Part 38 of the Manitoba Workplace Safety and Health Regulation on electrical safety. The goal of the program is to improve the safety culture in the electrical community and fill a gap in the current training offered to electrical workers in Manitoba.

WORKPLACE INNOVATION

DEVELOPMENT OF A PRE-PRODUCTION MSI CHECKLIST: RELIABILITY, VALIDITY AND EDUCATION

*Andrew Dolhy,
A. Dolhy Ergonomics Inc.*

\$49,100

This innovative project will review and modify the existing pre-production ergonomic risk-rating checklist at Motor Coach Industries (MCI). The revised risk assessment will be made available to other Manitoba workplaces. This project is consistent with SAFE Work Manitoba's Musculoskeletal Injury Prevention Strategy.

RESPIRABLE CRYSTALLINE SILICA IN THE MANITOBA CONSTRUCTION SECTOR: ADVANCING KNOWLEDGE TO REDUCE EXPOSURE

*Hugh W. Davies and
Melanie Gorman-Ng,
University of British
Columbia, and Jérôme
Lavoué, University of
Montreal*

\$195,792

This project will assess worker exposure to Respirable Crystalline Silica (RCS), which is a common mineral found on earth. RCS dust is associated with a wide range of adverse health outcomes such as lung cancer and lung disease. The project will sample a number of construction sites utilizing a risk assessment tool developed by the British Columbia Construction Safety Alliance, WorkSafe BC and the University of British Columbia. The information collected will be utilized to develop exposure control plans (ECP) for participating worksites in Manitoba.



PROJECTS COMPLETED IN 2017

ESTABLISHING AN EVALUATION FRAMEWORK FOR THE CULTURE OF SAFETY IN MANITOBA

SAFE Work Manitoba

\$70,000 awarded in 2016

SAFE Work Manitoba in partnership with the Institute for Work & Health developed and confirmed a definition of safety culture. The project report defines safety culture as a set of shared values and beliefs regarding workplace safety and health. Several resources on safety culture for Manitoba workplaces have been developed and the link to these resources may be accessed [here](#). The project's Summary Report may be accessed [here](#).

ENGAGING FRONTLINE MANAGERS AND SUPERVISORS TO PROMOTE MENTAL HEALTH AND PSYCHOLOGICAL SAFETY IN THE WORKPLACE

*Joel Gervais,
Vital Life Inc.*

\$119,580 awarded in 2014

Vital Life Inc. developed a mental health and addictions training program for managers, supervisors and workers in the construction, manufacturing and service sectors in Manitoba. Based on the *National Standard of Canada for Psychological Health and Safety in the Workplace*, the training program was customized for Manitoba. A resource guide was developed for managers and supervisors including a summary of the 13 psychosocial factors that impact mental health in the workplace. The project's resources were translated into French, German, Mandarin, Punjabi and Tagalog. The training program was promoted at several safety conferences in 2016 and 2017. The project's report may be accessed [here](#).

FIRST LANGUAGE HEALTH AND SAFETY TRAINING FOR NEWCOMERS

*Sonia Kowalewich, MFL
Occupational Health
Centre (OHC) and United
Food and Commercial
Workers (UFCW)*

\$87,001 awarded in 2014

The MFL Occupational Health Centre in partnership with the United Food and Commercial Workers Training Centre delivered a Train-the-Trainer Program for newcomer workers in the food processing industry in Brandon and Neepawa. The program included training in workplace health and safety delivered in Mandarin, Hindi, Spanish, Russian and Tagalog. The project results confirmed that newcomer workers in the food processing industry, especially Temporary Foreign Workers, lacked information about health and safety. They were also reluctant to report injuries because of their precarious employment status in Canada. The results also demonstrated the importance of training newcomer workers in their own language and using community-based organizations to deliver the training. The project's report may be accessed [here](#).



TRADE SPECIFIC RESPIRATORY PROTECTION TRAINING

Chris Hooter, *International Union of Painters and Allied Trades, Local 739 (Painters)*, and John Sedor, *International Union of Painters and Allied Trades*

\$69,920 awarded in 2014

This project provided trade-specific respiratory protection training to painters and workers in the allied trades on the risks of exposure to chemicals and toxic substances. The training reinforced the need to use respiratory protection due to inhalation risks associated with paint resins, solvents, thinners, pigments and co-reactants. Painters Local 739 trained 200 workers over the project's duration. An online screening program for respiratory health was launched and has proven to be popular with painters and workers in the allied trades as well as with contractors. The project's resources may be accessed [here](#).

EVALUATING THE ACCESSIBILITY OF THE MANITOBA CONSTRUCTION INDUSTRY TO PHYSICALLY DISABLED CONSTRUCTION WORKERS AND ITS RELATION TO SAFETY PERFORMANCE

Mohammed Issa, *University of Manitoba*

\$70,816 awarded in 2013

This study successfully developed, validated and applied a model, the Construction Disability Management Maturity Model (CDM3), to evaluate workplace health and safety performance in 10 construction firms in Manitoba. The CDM3 benchmarked disability management performance using 12 disability management indicators and identified leading and lagging indicators. In June 2015, the researchers presented the paper, A Model to Evaluate the Maturity of Construction Organizations' Disability Management Practices, at the 5th International Construction Specialty Conference, Vancouver. A presentation of the study's preliminary findings was also made to the Canadian Society for Civil Engineering (Manitoba Chapter) in October 2016. The project's report may be accessed [here](#).

SAFE FARM PLANS FOR GLENLEA RESEARCH STATION AND FARM

Michele Rogalsky, *School of Agriculture, University of Manitoba*

\$200,000 awarded in 2013

This project developed Safe Work Procedures for eight production units at the Glenlea Research Station and Farm, School of Agriculture, University of Manitoba. Physical changes were made on site to improve worker and visitor safety with safety labelling and signage in production units, confined spaces and restricted areas. A forklift training and certification program was developed and customized for Glenlea staff. A web-based repository was created for sharing templates, information and resources about Farm Safety with staff at the Research Station and Farm. The project's report may be accessed [here](#).



SYNTHESIZING OCCUPATIONAL HEALTH AND SAFETY KNOWLEDGE FOR LOCAL STAKEHOLDERS

Stephen Bornstein,
Memorial University,
and Emma Irvin,
Institute for Work and Health

\$196,000 awarded in 2013

This project successfully created a new approach to obtain and analyze scientific evidence on Occupational Health and Safety (OH&S) that can be applied to OH&S research at the local context. The new hybrid research methodology has the capacity to answer the questions ‘what works’ and ‘what can work here.’ The researchers successfully tested the blended methodology on the topic Managing Depression in the Workplace in Manitoba. The project’s final report may be accessed [here](#).

The report “Managing Depression in the Workplace: A Systematic Review Contextualized for Manitoba” may be accessed [here](#).

Another project resource, “Evidence in Context for Occupational Health and Safety Operational Handbook,” may be accessed [here](#).

ENGAGING HEALTHCARE PROVIDERS IN THE RETURN TO WORK PROCESS

Agnieszka Kosny,
Institute for Work and Health

\$187,584 awarded in 2013

This study investigated the role of healthcare providers (HCP), specifically general medical practitioners and family doctors, in relation to an injured worker’s Return to Work in Manitoba, British Columbia, Ontario and Newfoundland and Labrador. The findings showed that for straightforward injuries, HCP had an adequate level of knowledge about the workers compensation system, forms were easy to fill out, and the worker returned to work without much intervention or work accommodation. Many HCP reported that early Return to Work was not always appropriate, particularly for injured workers with complex conditions, and that forms were not suitable for multi-causal, complex injuries. The project report may be accessed [here](#).

A COMPARATIVE ANALYSIS OF SEVERE WORK-RELATED INJURIES AND LONG DURATION CLAIMS IN THREE CANADIAN PROVINCES

Mieke Koehoorn and
Christopher McLeod,
*University of British
Columbia*

\$199,965 awarded in 2012

The project analyzed trends, variations and drivers of long duration claims in Manitoba, British Columbia and Ontario. The data for the study were drawn from WCB claims data between 2000 and 2012. The provincial datasets were combined to create a single harmonized dataset. A comparative measure was developed to calculate the average number of work disability days paid per claim over a one-year window. A major achievement of the study is the creation of comparable injury data across multiple jurisdictions in Canada. The project’s report may be accessed [here](#).



THE ECONOMIC COSTS OF WORKPLACE INJURIES TO MANITOBA WORKERS, EMPLOYERS AND THE ECONOMY

Greg Mason,
*Prairie Research
Associates Inc.*

\$179,500 awarded in 2012

This study explored the full cost of workplace injuries and occupational illnesses to injured workers and their families. The findings show that the WCB's compensation system works well for the vast majority of workers who suffer no lasting effects from their workplace injury. The study highlighted the multi-dimensional aspects of a workplace injury, the role of informal carers in the recovery process and the challenge of restoring severely injured workers to their previous level of function. The project's report may be accessed [here](#).

DEVELOPMENT OF OCCUPATIONAL HEALTH AND SAFETY CONTENT FOR DISTANCE DELIVERY

Darlene Bouvier,
*School of Continuing
and Distance Education,
Red River College*

\$28,523 awarded in 2010

In partnership with Red River College, the WCB funded the development of a distance learning option to complement the Occupational Health and Safety (OH&S) Certificate Program offered by the College. The project updated the curriculum to meet the requirements of the National Occupational Classification Code for OH&S professionals. The revised curriculum for the OH&S Certificate Program was implemented effective July 1, 2014. The project's report may be accessed [here](#).

YOUNG WORKER RESPONSES TO WORKPLACE HAZARDS, RESPONSIBILITY FOR SAFETY AND WORKPLACE INJURIES ACROSS TIME

Sean Tucker, *University of
Regina*, and Nick Turner,
University of Calgary

\$78,858 awarded in 2010

This study explored how young workers make sense of occupational safety, their reaction to physically dangerous work, sharing ideas to make workplaces safer and reporting a safety issue to a supervisor. The findings showed that young workers entering new jobs know very little about safety conditions at their new workplace and learn very little about hazards of a job or hazardous working conditions and that many workplace injuries were preventable. The study was a sequel to a study in 2007, which showed that high levels of safety *Voice* and supervisor openness to safety suggestions from young workers are predictors of work-related injuries. The project's report may be accessed [here](#).



PROJECTS IN PROGRESS

BUILDING SUPPORT FOR NEWCOMER WORKERS IN THE FOOD PROCESSING INDUSTRY

Karen Hamilton,
*MFL Occupational
Health Centre*

\$105,704 awarded in 2016

This project is providing a ten-week training program in occupational health and safety to newcomer workers in their first language. The program provides newcomer workers the opportunity to share their safety experiences in Occupational Health and Safety Groups (OHSO). The first OHSO has been formed with members from the Eritrean community and group sessions launched in September 2017. The training model for the OHSO is the Life Story Board developed by Dr. Rob Chase from the MFL Occupational Health Centre.

DEVELOPMENT OF BENCHMARKING REPORTS AND A DASHBOARD TO CHANGE THE CONVERSATION IN CONSTRUCTION

Ben Amick, *Institute for
Work and Health*, and Mike
Jones, *Construction Safety
Association of Manitoba*

\$198,190 awarded in 2016

This project is a partnership between the Institute for Work and Health and the Construction Safety Association of Manitoba. Its goal is to identify leading indicators of injury and illness prevention in the construction sector. A sample of construction companies have been selected to pilot the survey and data mining for the project is in progress. The dashboard when developed will enable construction firms to easily identify and target efforts to improve health and safety programs for their workplaces.

IDENTIFICATION AND ANALYSIS OF SAFETY HAZARDS ON THE VIRTUAL CONSTRUCTION WORKSITE

Chris Taran, *International
Brotherhood of Electrical
Workers Local 2085*

\$96,000 awarded in 2016

The International Brotherhood of Electrical Workers Local 2085 in partnership with the boilermakers, pipefitters, painters and other affiliated unions of the Manitoba Building and Construction Trades Council is developing a series of virtual reality (VR) training modules for new construction workers. The project team presented the VR training module on Slips, Trips and Falls at the Skills Canada Competition 2017, attended by over 10,000 students from schools across Manitoba. This training module was also shared with participants attending the Nova Scotia Sector Council conference in 2017.

IDENTIFICATION OF NEUROIMAGING-BASED BIOMARKERS IN THE TREATMENT OF POST-TRAUMATIC STRESS DISORDER

Ronak Patel and Ji Hyun Ko,
University of Manitoba

\$199,464 awarded in 2016

This study is examining neurobiological changes that occur in patients diagnosed with post-traumatic stress disorder using imaging-based biomarkers. Biomarkers refer to a broad sub-category of medical signs or objective indications of a medical state observed from outside the patient, which can be measured accurately.



INTO ACTION: PSYCHOLOGICAL SAFETY TRAINING FOR MANAGERS

Joel Gervais and Jolen
Galaugher, *Vital Life Inc.*
Winnipeg

\$97,480 awarded in 2016

This project is providing mental health and addictions training to managers, human resource personnel and health and safety representatives in the oil, gas and mining, agriculture and healthcare sectors. The project team has finalized the Resource Guides for the three targeted sectors and completed the development of supporting resources for the training. This is the second project awarded to Vital Life Inc. for training managers and supervisors in mental health and psychological safety in the workplace.

MANAGEMENT OF POST-TRAUMATIC STRESS DISORDER: A MULTIPLE TREATMENT COMPARISON META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS

Jason W. Busse,
McMaster University

\$158,243 awarded in 2016

This study is undertaking a systematic review of all available literature on post-traumatic stress disorder (PTSD) and will focus on functional recovery and Return to Work to synthesize evidence from all published randomized control trials for PTSD treatments. The “Grading of Recommendations Assessment Development and Evaluation” system will be used to evaluate the data. The study’s outcomes will guide evidence-based management of patients, identify new areas of inquiry for research and practice and develop new educational tools for patients and clinicians.

ONLINE AND CLASSROOM DELIVERED MINDFULNESS-BASED COGNITIVE BEHAVIOUR THERAPY COURSE FOR BUILDING WORKPLACE RESILIENCE: A PILOT RANDOMIZED CONTROLLED TRIAL

Jitender Sareen,
Health Sciences Centre

\$199,775 awarded in 2016

This study is undertaking the delivery of the Mindfulness-Based Cognitive Behaviour Therapy to members of the police force, firefighters, paramedics and nurses. The goal of the project is to prevent post-traumatic stress disorder and related conditions by providing strategies to reduce symptoms of mood and anxiety disorders. The project has received approval from the University of Manitoba’s Research Ethics Board.

PERCEPTIONS AND EXPERIENCES OF TRAUMA WITHIN UNDERGRADUATE NURSING EDUCATION

Kathryn Chachula,
Brandon University

\$56,409 awarded in 2016

This study is investigating experiences and perceptions of trauma among new nursing graduates in the Bachelor of Nursing and Bachelor of Psychiatric Nursing student population at Brandon University (BU). The study’s goals are to change educational policy and assessment services at BU and build coping techniques and resiliency-enabling behaviours for student nurses at BU.



USING TECHNOLOGY TO IMPROVE SAFETY PRACTICES FOR HIGH RISK HAZARDS IN CONSTRUCTION

Mike Moore,
Manitoba Home
Builders Association

\$109,900 awarded in 2016

This project is using virtual reality technology to digitize four workplace safety training courses offered by Manitoba Home Builders Association. The courses, Confined Space, Fall Protection, Scaffolding and Safe Use of Power Tools, are being delivered in partnership with the Construction Safety Association of Manitoba. The target groups for this project are general labourers, tradespeople, new supervisors and safety trainers working in the homebuilding trades, heavy construction industries and transportation. BIT Space Development, a Winnipeg-based company, is providing the technology for this project. The Confined Space course is complete. The Fall Protection course is underway and the remaining two courses, Scaffolding and Safe Use of Power Tools, are slated to begin in March 2018.

DEVELOPMENT OF A COMPREHENSIVE TOOLKIT FOR EVALUATING WORKPLACE MUSCULOSKELETAL INJURY INTERVENTIONS: SWINE INJECTION TECHNOLOGIES AS A TEST CASE

Catherine Trask, Brenna
Bath, Stephan Milosavljevic,
Aaron Kociolek, Bernardo
Predicala, Lee Whittington
and Erika Penz, *University of
Saskatchewan*

\$119,650 awarded in 2015

This study is developing a comprehensive toolkit to evaluate workplace injuries caused by musculoskeletal injuries and ergonomic risks among workers in the pork industry in Manitoba and Saskatchewan. The toolkit will include a set of decision-making protocols to measure the costs and benefits of needle-less and hypodermic injectors for health and safety and production costs. The project has made substantial progress in collecting data on the exposure assessment and work productivity in hog barns. Data processing and analysis are underway.

ENGAGING AN ORGANIZATION IN THE PREVENTION OF WORK RELATED INJURIES

Kim Roer,
St. Boniface Hospital

\$57,056 awarded in 2015

This project is undertaking enhancements to the Occupational Health and Safety Incident Tracker system currently in use at St. Boniface Hospital (SBH). Work has progressed on schedule with the central visual display set up for all staff at SBH. A “theme per month” approach for the central visual display is under development, which will provide information on the cause of injury, physical location of incidents, body part affected and information on how to prevent these incidents. The Injury Prevention pilot is in progress.

EXPLORING THE NEW STANDARD: PSYCHOLOGICAL SAFETY IN THE WORKPLACE USING JOINT WORKPLACE HEALTH AND SAFETY COMMITTEES, RISK/HAZARD IDENTIFICATION, REDUCING THE HAZARD, EDUCATION, AND EVALUATION

Maureen Grace, *Hamilton
Grace and Associates*

\$43,885 awarded in 2015

Maureen Grace of Hamilton Grace and Associates, a private consultancy firm, is implementing Canada’s national standard for *Psychological Health and Safety in the Workplace* (the Standard) at Red River College (RRC). Members of RRC’s Joint Workplace Health and Safety Committees have received training on the Standard and a group of RRC employees were surveyed on respect and civility to assess psychological safety in RRC’s workplace. A video titled Respect is Everyone’s Responsibility is in development. The project is on track to successfully conclude in the second quarter of 2018.



MENTAL HEALTH OUTCOMES FOLLOWING WORKPLACE INJURY

Sarvesh Logsetty,
University of Manitoba,
Jitender Sareen, James
Bolton and Allen Kraut,
University of Manitoba, and
Dan Chateau, *Manitoba
Centre for Health Policy*

This study is investigating mental illness following a workplace injury. It will determine if the mental illness is an outcome of the workplace injury or is a result of other causes. The project's activities are slated to begin in the first quarter of 2018.

\$199,966 awarded in 2015

STANDARDIZED & INTEGRATED SAFETY TRAINING FOR MANITOBA'S SKILLED TRADES

Sudhir Sandhu, *Manitoba
Building and Construction
Trades Council and Allied
Hydro Council of Manitoba,*
and Paul Holden, *Manitoba
Institute of Trades and
Technology*

The Manitoba Integrated & Standardized Safety Training (MISST) project is developing a conceptual model to guide the creation and implementation of a standardized and integrated safety training system for Manitoba's skilled building trades. The research team has completed an environmental scan of the safety training standards in Manitoba, other Canadian jurisdictions and internationally. Industry stakeholders in Manitoba were surveyed in October 2017. The MISST website went live in 2017. Quarterly newsletters were published throughout 2017. The MISST website may be accessed [here](#).

\$197,150 awarded in 2015

SUPERVISOR AND WORKER PERSPECTIVES ON WORKPLACE ACCOMMODATIONS FOR MENTAL HEALTH

Vicki Kristman, *Lakehead
University,* Marc Corbière,
*Université du Québec à
Montréal,* William Shaw,
*Liberty Mutual Research
Institute for Safety,* Karen
Harlos, *University of
Winnipeg,* and Margaret
Cernigoj, *Workplace Safety
& Prevention Services,
Mississauga, Ontario*

This study is examining the factors that support workplace accommodations for workers with a mental health disorder (MHD) from the perspectives of supervisors and workers. MHD is characterized by alterations in thinking, mood or behaviour associated with significant distress and impaired functioning over an extended period of time.

\$170,839 awarded in 2015



WORKSAFELY ONLINE PROGRAM

Don Hurst and Jackie Jones, *Manitoba Heavy Construction Association*

\$186,400 awarded in 2015

The Manitoba Heavy Construction Association (MHCA) is undertaking a project to digitize four safety training courses under MHCA's WORKSAFELY program and offer these courses in an e-learning or online format. The four safety training courses are: Flag Person Training, Personal Protective Equipment (PPE), Prime Contractors and Road Builders Safety. The target group for this project includes general labourers, trades people, new supervisors and safety trainers working in Manitoba's construction and transportation sectors. The Road Builders Safety course and the Flag Person Training Game have been developed and are now part of the Introduction to Heavy Construction course currently offered in First Nations communities. The resources for the PPE course are nearing completion and work is on schedule for the Prime Contractor course.

The Road Builders Safety Training System may be accessed [here](#).

The Flag Person Training may be accessed [here](#).

The PPE App – Personal Protective Equipment Course may be accessed [here](#).

A KNOWLEDGE TRANSFER INTERVENTION WITH SUPERVISORS: CAN WE REDUCE INJURY BY IMPROVING KNOWLEDGE TRANSLATION STRATEGIES FOR DIRECT SUPPORT WORKERS OF PEOPLE WITH INTELLECTUAL DISABILITY WHO DISPLAY CHALLENGING BEHAVIOUR?

Beverley Temple, *University of Manitoba and St. Amant Research Centre*, Toby Martin, Jennifer Kilimnik, *St. Amant Centre*, Charmayne Dube, *New Directions*, and Lisa Demczuk, *University of Manitoba*

\$180,000 awarded in 2014

In partnership with the University of Manitoba and St. Amant Centre this study is investigating the impact of knowledge translation initiatives on the retention of training knowledge and the practical utilization of training given to frontline staff who work with clients with developmental disabilities at St. Amant. The methodology for the study is the "Promoting Action on Research Implementation in Health Services" framework. Phase One of the study is complete and Phase Two is in progress. This study is a sequel to a study undertaken in 2011.

DETERMINING THE INFLUENCE THAT THE WCB OF MANITOBA'S OPIOID POLICY HAS HAD ON PRESCRIPTION OPIOID USE AMONGST WCB RECIPIENTS

Allen Kraut and Leigh Anne Shafer, *University of Manitoba*, and Colette Raymond, *Manitoba Centre for Health Policy*

\$54,470 awarded in 2014

This study is comparing opioid usage and physician prescribing practices between injured workers receiving WCB benefits and other Manitobans before and after the changes made to WCB Policy 44.120.20, *Opioid Medication*. A data sharing agreement between the parties was completed in October 2017, marking the start date for the project.



HUMAN FACTOR FOCUSED MUSCULOSKELETAL INJURY PREVENTION TRAINING FOR CONSTRUCTION WORKERS

Marnie Courage,
Enabling Access Inc.

\$84,800 awarded in 2014

Enabling Access Inc., a provider of health and safety services, is delivering training for Musculoskeletal Injury Prevention to workers who are at risk of sustaining musculoskeletal injuries in small, medium and large companies in the construction sector. The program provides training on Sprains, Strains and Tears; Customized Manual Material Handling; Situational Awareness; and Ergonomics. Work continued throughout 2017 in the Job Evaluation and Training Phases of the project. The project is continuing to recruit construction companies to participate in the project.

INDUSTRY-BASED SAFETY ASSOCIATIONS, PHASE TWO

SAFE Work Manitoba

\$300,000 awarded in 2014

SAFE Work Manitoba's strategic priorities highlight the important role of industry-based safety associations in strengthening workplace safety and health practices and commits to continued support for existing associations and the establishment of additional associations. In 2017, the Manitoba Farm Safety Program was launched.

INTERVENING IN THE TRANSPORTATION SECTOR TO REDUCE DRIVER FATIGUE, LOW BACK PAIN AND DISCOMFORT AND TO INCREASE VEHICLE SAFETY

Phillip Bigelow, *University of Waterloo*, Jim Dickey, *Western University*, and Emile Tompa, *Institute for Work and Health*

\$127,098 awarded in 2014

With the support of Bison Transportation and the Manitoba Trucking Association, this study is investigating the relationship between the exposure of truck drivers to whole body vibration (WBV) caused by different types of truck seats and the effects on fatigue, low back pain and disability. The researchers have completed data collection activities for the study. Preliminary results indicate that type of seat and truck, in addition to road conditions, influence vibration exposure and that WBV were at hazardous levels for truck drivers. Knowledge Transfer and Exchange activities are underway.

SAFETY KNOWLEDGE SHARING BEFORE RETIREMENT: AN EXAMINATION OF RETIRING EMPLOYEES' ATTITUDES, INTENTIONS AND BEHAVIOURS

Nick Turner, Krista Uggerslev and Kasey Martin, *Asper School of Business, University of Manitoba*

\$75,454 awarded in 2012

The title of this project was changed to: Safety Knowledge Sharing in the Culinary Trades as the researchers were successful in recruiting participants for the study from workers in the culinary trades. The study surveyed trainees, instructors and work placement chefs in two locations: the Northern Alberta Institute of Technology, Edmonton, Alberta, and Red River College, Winnipeg. A PowerPoint presentation from the March 22, 2017 Knowledge Transfer and Exchange session may be accessed [here](#).



APPENDIX A

Over the last nine years, a total of 72 projects have been approved for funding. Of those, 30 were Scientific Research studies, 10 were Training and Education projects, 19 were Workplace Innovation projects, five were Partnerships, three were Special Funding projects and five were Requests for Proposals. The table below provides an overview and status report of the projects approved for funding from 2009 to 2017.



RWIP APPROVED PROJECTS 2009 TO 2017

Revised funding may occur in two ways. Frequently the entire original funding is not required for the successful completion of a project, resulting in a decreased funding amount. Occasionally a grant recipient may request an increase in funding. The Administration may approve increases up to \$20,000 as long as the total project cost does not exceed \$200,000. Increases in excess of those amounts are subject to Board approval.

FUNDING STREAM	NUMBER OF PROJECTS	ORIGINAL APPROVED FUNDING	COMPLETED	CANCELLED	NEW PROJECTS APPROVED IN 2017	IN PROGRESS	REVISED FUNDING
Scientific Research	30	\$4,301,234	15	1	3	11	\$4,187,897
Training and Education	10	\$1,112,803	3	0	1	6	\$1,156,820
Workplace Innovation	19	\$2,425,029	13	1	2	3	\$2,077,488
Partnerships	5	\$545,605	5	0	0	0	\$525,889
Special Funding	3	\$568,190	1	0	0	2	\$568,190
Request for Proposals	5	\$324,875	4	1	0	0	\$359,710
Totals:	72	\$9,277,736	41	3	6	22	\$8,875,994



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