

APPENDIX 4

Investigating the Prevalence of Symptoms of Vibration-Related Illnesses Among Agricultural Machine Operators

Appendix A. Survey Questionnaire

Location: _____
Date: _____
Code: _____

Pagsusuri sa Paglaganap ng mga Sintomas ng mga Karamdamang may kinalaman sa Vibration na nararanasan ng mga Opereytors ng Makina at Kagamitang Pang-agrikultura

Assessment on the Prevalence of Symptoms of Vibration-Related Illnesses among Agricultural Machine and Equipment Operators

Ayon sa mga pag-aaral, ang mga makina at kagamitang pang-agrikultura ay gumagawa ng bibrasyon o panginingin na maaaring magresulta sa pagkakaroon ng karamdaman. Upang masuri ang paglaganap ng mga sintomas sa mga operaytors ng mga makina at kagamitang pang-agrikultura, ang mga katanungan na ito ay ginawa.

I. Demographics (*Demograpiya*)

Pangalan (opsyonal): _____

Edad: _____

Kasarian sa kapanganakan: ☐ Lalaki ☐ Babae

Pinakamataas na edukasyong natamo: _____

Dating trabaho- bilang ng taon sa trabahong nabanggit (kung mayroon):

Kasalukuyang trabaho maliban sa pagsasaka at pagpapatakbo ng mga makina at kagamitan - bilang ng taon sa trabahong nabanggit (kung mayroon): _____

Karaniwang bilang ng oras ng tulog: _____

Karamdaman:

☐ Asthma ☐ Hypertension/ High ☐ Iba pa: _____

☐ Heart Disease Blood Pressure _____

☐ Diabetes ☐ Arthritis _____

Masamang bisyo:

☐ *Paninigarilyo* ☐ *Pag-iinom* ☐ *Iba pa:* _____

Iba pang mga gawain at aktibidad: _____

Body injury/ *Bali o sugat sa katawan:* _____

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II. Experience (*Karanasan*)

Mga ginagamit na makina at kagamitang pang-agrikultura:

☐ 2-wheel tractor / ☐ 4-wheel tractor / ☐ Iba pa: _____
 hand tractor ride-on tractor _____

Bilang ng oras kada linggo na gumagamit ng makina at kagamitang pang-agrikultura (ex: 40 oras):

Tuwing anong oras gumagamit ng mga makina at kagamitang pang-agrikultura? (ex: 7am-11am):

Bilang ng taon ng paggamit ng makina at kagamitang pang-agrikultura: _____

III. Questionnaires (Mga Katanungan)

A. Boston Carpal Tunnel Syndrome Questionnaire

Functional Status Scale

Panuto: Bilugan ang marka ayon sa iyong karanasan.

Functional Status Scale	Hindi mahirap	Mahirap ng kaunti	Katamtaman ang hirap	Matindi ang hirap	Hindi kayang gawin ang aktibidad
<i>Pagsusulat</i>	1	2	3	4	5
<i>Pag-bubukas o pag-sasara ng butones ng damit</i>	1	2	3	4	5
<i>Pag-hawak ng libro habang nagbabasa</i>	1	2	3	4	5
<i>Pag-hawak ng telepono</i>	1	2	3	4	5
<i>Pag-bubukas ng mga garapon</i>	1	2	3	4	5
<i>Pag-gawa ng gawaing bahay</i>	1	2	3	4	5
<i>Pag-bubuhay ng mga pinamili</i>	1	2	3	4	5
<i>Panliligo at pag-bibihis</i>	1	2	3	4	5

Symptom Severity Scale

Panuto: Lagyan ng tsek(✓) ang kahon katapat ng marka ayon sa iyong karanasan.

1. *Gaano kalala ang sakit na nararamdaman sa kamay at pulso sa **gabi**?*

☐ Hindi nakakaramdam ☐ Kaunti ☐ Malala
 ng sakit ☐ Katamtaman ☐ Napaka-lala

2. *Sa nakalipas na dalawang linggo, gaano kadalas kang nagigising dahil sa pananakit ng kamay o pulso sa isang karaniwang gabi?*

☐ Hindi nagigising dahil ☐ Isang beses ☐ 4-5 beses
 sa sakit (0 beses) ☐ 2-3 beses ☐ Mas mataas sa 5 beses

Location: _____
 Date: _____
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3. *Ikaw ba ay karaniwang may pananakit sa iyong kamay o pulso sa **araw**?*

☐ <i>Hindi nakakaramdam ng sakit</i>	☐ <i>Kaunti</i>	☐ <i>Malala</i>
	☐ <i>Katamtaman</i>	☐ <i>Napaka-lala</i>
4. *Gaano ka kadalas nagkakaroon ng pananakit ng kamay o pulso sa araw?*

☐ <i>Hindi nakakaramdam ng sakit (0 beses)</i>	☐ <i>1-2 beses sa isang araw</i>	☐ <i>Mas mataas sa 5 beses</i>
	☐ <i>3-5 beses kada araw</i>	☐ <i>Tuloy-tuloy</i>
5. *Sa araw, gaano kadalasang tumatagal ang pananakit sa kamay at pulso?*

☐ <i>Hindi nakakaramdam ng sakit</i>	☐ <i>Patuloy sa loob ng 10 minuto- 1 oras</i>	☐ <i>Tuloy-tuloy</i>
☐ <i>Mas maikli sa 10 minuto</i>	☐ <i>Mas matagal sa 1 oras</i>	
6. *Gaano kalala ang pamamanhid (pagkawala ng pakiramdam) sa iyong kamay?*

☐ <i>Hindi nakakaramdam ng pamamanhid</i>	☐ <i>Kaunti</i>	☐ <i>Malala</i>
	☐ <i>Katamtaman</i>	☐ <i>Napaka-lala</i>
7. *Gaano kalala ang panghihina sa iyong kamay o pulso?*

☐ <i>Hindi nakakaramdam ng panghihina</i>	☐ <i>Kaunti</i>	☐ <i>Malala</i>
	☐ <i>Katamtaman</i>	☐ <i>Napaka-lala</i>
8. *Gaano kalala ang tusok-tusok na pakiramdam sa iyong kamay sa **araw**?*

☐ <i>Hindi nakakaramdam ng tusok-tusok</i>	☐ <i>Kaunti</i>	☐ <i>Malala</i>
	☐ <i>Katamtaman</i>	☐ <i>Napaka-lala</i>
9. *Gaano kalala ang pamamanhid (pagkawala ng pakiramdam) o tusok tusok na pakiramdam sa **gabi**?*

☐ <i>Hindi nakakaramdam ng pamamanhid</i>	☐ <i>Kaunti</i>	☐ <i>Malala</i>
	☐ <i>Katamtaman</i>	☐ <i>Napaka-lala</i>
10. *Sa huling dalawang lingo, gaano kadalas ka nagigising sa gabi dahil sa pamamanhid o tusok-tusok?*

☐ <i>Hindi nagigising dahil sa pamamanhid o tusok-tusok (0 beses)</i>	☐ <i>Isang beses</i>	☐ <i>Mas mataas sa 5 beses</i>
	☐ <i>2-3 beses</i>	
	☐ <i>4-5 beses</i>	
11. *Nahihirapan ka ba sa paghawak at paggamit ng maliliit na bagay tulad ng mga susi o panulat?*

☐ <i>Hindi mahirap</i>	☐ <i>Katamtaman ang hirap</i>	☐ <i>Napaka-hirap</i>
☐ <i>Mahirap ng kaunti</i>	☐ <i>Matindi ang hirap</i>	

Location: _____
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B. Extended Nordic Musculoskeletal Questionnaire (NMQ-E)

Panuto: Kung nararanasan ang mga sintomas sa kaliwang hanay, lagyan ng tsek(✓) ang hanay sa kanan katapat ng parte ng katawan. Kung hindi, lagyan ng eks (X) ang hanay sa kanan.

B. Musculoskeletal Disorder:	Leeg	Balik	Taas na bahagi ng likod	Siko	Ibabang bahagi ng likod	Pulso o kamay	Balakang o hita	Tuhod	Bukong-bukong o paa
Nakaramdam ka ba ng pananakit sa parteng nabanggit?									
Ilang taon mo nang nararanasan ang sakit?									
Naospital ka na ba dahil sa sakit sa parteng nabanggit?									
Kinailangan mo bang magpalit ng trabaho (kahit pangsamantala) dahil sa sakit?									
Sa nakaraang isang taon, nakaramdam ka ba ng pananakit sa parteng nabanggit?									
Sa nakaraang isang buwan, nakaramdam ka ba ng pananakit sa parteng nabanggit?									
Ngayong araw, nakaramdam ka ba ng pananakit sa parteng nabanggit?									
Sa nakaraang isang taon, hinadlangan ka ba ng pananakit na ito upang gawin ang iyong trabaho?									
Sa nakaraang isang taon, lumapit ka ba sa isang doctor, physiotherapist, chiropractor o iba pa dahil sa pananakit sa parteng nabanggit?									
Sa nakaraang isang taon, gumamit or uminom ka ba ng kahit anong uri ng gamot dahil sa pananakit sa parteng nabanggit?									
Sa nakaraang isang taon, may pagkakataon bang hindi ka pumasok sa trabaho dahil sa pananakit sa parteng nabanggit?									

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Location: _____
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C. Cold Intolerance Symptom Severity Questionnaire

Panuto: Bilugan ang marka ayon sa iyong karanasan.

Kapag nakakaramdam ng lamig, gaano kalala ang nararanasan mo na sintomas sa mga kamay at braso?	Hindi nararanasan				Pinaka-malubhang kaso na naiisip mo
Pananakit	0	1	2	3	4
Pamamanhid	0	1	2	3	4
Paninigas	0	1	2	3	4
Panghihina ng paghawak	0	1	2	3	4
Patuloy na pananakit	0	1	2	3	4
Pamamaga	0	1	2	3	4
Pagbabago ng kulay (puti/maasul na puti/asul)	0	1	2	3	4

Kapag nakakaramdam ng lamig, gaano kadalas mo nararanasan ang sintomas sa mga kamay at braso?	Hindi nararanasan	Isang beses kada buwan	Isang beses kada linggo	Isang beses kada araw	Ilang beses kada araw	Patuloy na nararanasan
Pananakit	0	1	2	3	4	5
Pamamanhid	0	1	2	3	4	5
Paninigas	0	1	2	3	4	5
Panghihina ng paghawak	0	1	2	3	4	5
Patuloy na pananakit	0	1	2	3	4	5
Pamamaga	0	1	2	3	4	5
Pagbabago ng kulay (puti/maasul na puti/asul)	0	1	2	3	4	5

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Location: _____
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<i>Kapag nararanasan ang sintomas at ikaw ay lumipat sa isang mainit na lugar, gaano katagal bago mawala ang sintomas?</i>	<i>Hindi nararanasan</i>	<i>Sa loob ng 30 minuto</i>	<i>Pagkatapos ng mahigit 30 minuto</i>
<i>Pananakit</i>	0	1	2
<i>Pamamanhid</i>	0	1	2
<i>Paninigas</i>	0	1	2
<i>Panghihina ng paghawak</i>	0	1	2
<i>Patuloy na pananakit</i>	0	1	2
<i>Pamamaga</i>	0	1	2
<i>Pagbabago ng kulay (puti/ maasul na puti/ asul)</i>	0	1	2

<i>Kapag nararanasan ang sintomas, ano ang iyong ginagawa upang maiwasan o mapagaan ang mga ito?</i>	<i>Walang ginagawa o hindi nararanasan</i>	<i>Paulit-ulit pinapainit ang kamay (pag-eehersisyo at pagmamasah sa kamay, paglalagay ng kamay sa bulsa)</i>	<i>Nakagawiang pag-susuot ng mainit-init na gwantes o damit kahit na katamtaman lamang ang lamig</i>	<i>Iniwasan ang malamig na panahon at kadalasang nanatili sa loob ng bahay</i>
<i>Pananakit</i>	0	1	2	3
<i>Pamamanhid</i>	0	1	2	3
<i>Paninigas</i>	0	1	2	3
<i>Panghihina ng paghawak</i>	0	1	2	3
<i>Patuloy na pananakit</i>	0	1	2	3
<i>Pamamaga</i>	0	1	2	3
<i>Pagbabago ng kulay (puti/ maasul na puti/ asul)</i>	0	1	2	3

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Location: _____
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<i>Gaano nakaka-abala ang lamig na nararanasan mo sa iyong kamay na may injury (kagaya ng bali o sugat) o sa kamay na nakakaranas ng mga sintomas habang ginagawa nag mga sumusunod?</i>	<i>Hindi apektado</i>				<i>Hindi na kayang gawin</i>
<i>Paghawak ng nagyeyelong bagay mula sa freezer o baso na may malamig na tubig</i>	0	1	2	3	4
<i>Paghuhugas gamit ang malamig na tubig</i>	0	1	2	3	4
<i>Kapag natapos manligo gamit ang mainit na tubig at biglang nakaramdam ng hangin na nasa normal na temperatura</i>	0	1	2	3	4
<i>Tuwing malamig at mahangin na panahon</i>	0	1	2	3	4

<i>Gaano naaapektuhan ng mga nararansang sintomas ang iyong pagkilos o paggawa ng mga sumusunod na gawain o aktibidad?</i>	<i>Hindi apektado</i>				<i>Hindi na kayang gawin</i>
<i>Gawaing bahay</i>	0	1	2	3	4
<i>Mga libangan at interes</i>	0	1	2	3	4
<i>Pagsusuot at paghuhubad ng damit</i>	0	1	2	3	4
<i>Pagtatali ng swelas ng sapatos</i>	0	1	2	3	4
<i>Iyong trabaho o iyong pangunahing pang-araw-araw na aktibidad/gawain</i>	0	1	2	3	4

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Appendix B Summary of Data / Variable Descriptions

Definition of Variables:

Variable	Source	Description	Measure
Age	Demographics	Answer of respondent to: <i>Edad</i>	<i>Ordinal: Ranges of age</i>
Highest educational attainment		Answer of respondent to: <i>Pinakamataas na edukasyong natamo</i>	<i>Nominal: Elementary, Highschool, etc.</i>
Previous Job		Answer of respondent to: <i>Dating trabaho- bilang ng taon sa trabahong nabanggit (kung mayroon)</i>	<i>Ordinal: Ranges of number of years</i>
Concurrent Job		Answer of respondent to: <i>Kasalukuyang trabaho maliban sa pagsasaka at pagpapatakbo ng mga makina at kagamitan - bilang ng taon sa trabahong nabanggit (kung mayroon)</i>	<i>Ordinal: Ranges of number of years</i>
Sleep		Answer of respondent to: <i>Karaniwang bilang ng oras ng tulog. (Answer was grouped to enough or not)</i>	<i>Binary, Enough (at least 8 hours) or not enough sleep</i>
Illness		Answer of respondent to: <i>Karamdaman</i>	<i>Yes/No if they have other illness</i>
Vices		Answer of respondent to: <i>Masamang bisyo</i>	<i>Yes/No if they have vices</i>
Injury		Answer of respondent to: <i>Body injury/ Bali o sugat sa katawan</i>	<i>Yes/No if they have other injuries</i>
Years of using a 2-wheel tractor		Answer of respondent to: <i>Bilang ng taon ng paggamit ng 2-wheel tractor</i>	<i>Ordinal: Ranges of the number of years that farmers used 2-wheel tractors</i>
Years of using a 4-wheel tractor		Answer of respondent to: <i>Bilang ng taon ng paggamit ng 4-wheel tractor</i>	<i>Number of years that farmers used 4-wheel tractors</i>
Weekly tool use		Answer of respondent to: <i>Bilang ng oras kada linggo na gumagamit ng makina at kagamitang pang-agrikultura</i>	<i>Number of hours that they use agricultural machinery</i>
Time of day		Answer of respondent to: <i>Tuwing anong oras</i>	<i>Morning, or afternoon, or both.</i>

		<i>gumagamit ng mga makina at kagamitang pang-agrikultura?</i>	
Neck	NMQ-E	Answer of respondent to: Do you experience pain in the neck? <i>Nakaramdam ka ba ng pananakit sa leeg?</i>	Binary, 1 if they have experienced pain. 0 otherwise.
Shoulders		Answer of respondent to: Do you experience pain in the shoulder? <i>Nakaramdam ka ba ng pananakit sa balikat?</i>	Binary, 1 if they have experienced pain. 0 otherwise.
Upper back		Answer of respondent to: Do you experience pain in the upper back? <i>Nakaramdam ka ba ng pananakit sa taas na bahagi ng likod?</i>	Binary, 1 if they have experienced pain. 0 otherwise.
Elbows		Answer of respondent to: Do you experience pain in the elbows? <i>Nakaramdam ka ba ng pananakit sa siko?</i>	Binary, 1 if they have experienced pain. 0 otherwise.
Lower back		Answer of respondent to: Do you experience pain in the lower back? <i>Nakaramdam ka ba ng pananakit sa ibabang bahagi ng likod?</i>	Binary, 1 if they have experienced pain. 0 otherwise.
Wrists or hands		Answer of respondent to: Do you experience pain in the wrists or hands? <i>Nakaramdam ka ba ng pananakit sa pulso o kamay?</i>	Binary, 1 if they have experienced pain. 0 otherwise.
Hips or thighs		Answer of respondent to: Do you experience pain in the hips or thighs? <i>Nakaramdam ka ba ng pananakit sa balakang o hita?</i>	Binary, 1 if they have experienced pain. 0 otherwise.
Knees		Answer of respondent to: Do you experience pain in the knees? <i>Nakaramdam ka ba ng pananakit sa tuhod?</i>	Binary, 1 if they have experienced pain. 0 otherwise.
Ankles or		Answer of respondent to:	Binary, 1 if they have

feet		Do you experience pain in the ankles or feet? <i>Nakaramdam ka ba ng pananakit sa bukong-bukong o paa?</i>	experienced pain. 0 otherwise.
Writing	BCTS	<i>(Gaano kahirap ang) Pagsusulat</i>	Ordinal 1- 5, Rating from the respondents
Buttoning		<i>(Gaano kahirap ang) Pag-bubukas o pag-sasara ng butones ng damit</i>	Ordinal 1- 5 Rating from the respondents
Book		<i>(Gaano kahirap ang) Pag-hawak ng libro habang nagbabasa</i>	Ordinal 1- 5 Rating from the respondents
Telephone		<i>(Gaano kahirap ang) Pag-hawak ng telepono</i>	Ordinal 1- 5 Rating from the respondents
Jar		<i>(Gaano kahirap ang) Pag-bubukas ng garapon</i>	Ordinal 1- 5 Rating from the respondents
House Chores		<i>(Gaano kahirap ang) Pag-gawa ng gawaing bahay</i>	Ordinal 1- 5 Rating from the respondents
Grocery		<i>(Gaano kahirap ang) Pag-bubuhay ng mga pinamili</i>	Ordinal 1- 5 Rating from the respondents
Bathing or Dressing		<i>(Gaano kahirap ang) Panliligo at pag-bibihis</i>	Ordinal 1- 5 Rating from the respondents
Pain Night		<i>Gaano kalala ang sakit na nararamdaman sa kamay at pulso sa gabi?</i>	Ordinal 1- 5 Rating from the respondents
Frequency Pain Night		<i>Sa nakalipas na dalawang linggo, gaano kadalas kang nagigising dahil sa pananakit ng kamay o pulso sa isang karaniwang gabi?</i>	Ordinal 1- 5 Rating from the respondents
Morning Pain		<i>Ikaw ba ay karaniwang may pananakit sa iyong kamay o pulso sa araw?</i>	Ordinal 1- 5 Rating from the respondents
Frequency Morning pain		<i>Gaano ka kadalas nagkakaroon ng pananakit ng kamay o pulso sa araw?</i>	Ordinal 1- 5 Rating from the respondents
Duraiton pain morning		<i>Sa araw, gaano kadalasang tumatagal ang pananakit sa kamay at pulso?</i>	Ordinal 1- 5 Rating from the respondents
Numbeness		<i>Gaano kalala ang pamamanhid (pagkawala ng pakiramdam) sa iyong kamay?</i>	Ordinal 1- 5 Rating from the respondents
Weakness		<i>Gaano kalala ang panghihina sa iyong kamay o pulso?</i>	Ordinal 1- 5 Rating from the respondents

Tingles		<i>Gaano kalala ang tusok-tusok na pakiramdam sa iyong kamay sa araw?</i>	Ordinal 1- 5 Rating from the respondents
Severity N/T		<i>Gaano kalala ang pamamanhid (pagkawala ng pakiramdam) o tusok tusok na pakiramdam sa gabi?</i>	Ordinal 1- 5 Rating from the respondents
Frequency N/T		<i>Sa huling dalawang lingo, gaano kadalas ka nagigising sa gabi dahil sa pamamanhid o tusok-tusok?</i>	Ordinal 1- 5 Rating from the respondents
Small items		<i>Nahihirapan ka ba sa paghawak at paggamit ng maliliit na bagay tulad ng mga susi o panulat?</i>	Ordinal 1- 5 Rating from the respondents
Pain Severity	CISS	<i>Kapag nakakaramdam ng lamig, gaano kalala ang nararanasan mo na pananakit sa mga kamay at braso?</i>	Ordinal 0 – 4 Rating from the respondents
Numbness Severity		<i>Kapag nakakaramdam ng lamig, gaano kalala ang nararanasan mo na pamamanhid sa mga kamay at braso?</i>	Ordinal 0 – 4 Rating from the respondents
Stiff ness Severity		<i>Kapag nakakaramdam ng lamig, gaano kalala ang nararanasan mo na paninigas sa mga kamay at braso?</i>	Ordinal 0 – 4 Rating from the respondents
Weakness Severity		<i>Kapag nakakaramdam ng lamig, gaano kalala ang nararanasan mo na panghihina ng paghawak sa mga kamay at braso?</i>	Ordinal 0 – 4 Rating from the respondents
Aching Severity		<i>Kapag nakakaramdam ng lamig, gaano kalala ang nararanasan mo na patuloy na pananakit sa mga kamay at braso?</i>	Ordinal 0 – 4 Rating from the respondents
Swelling Severity		<i>Kapag nakakaramdam ng lamig, gaano kalala ang nararanasan mo na pamamaga sa mga kamay at braso?</i>	Ordinal 0 – 4 Rating from the respondents
Skin Color Change Severity		<i>Kapag nakakaramdam ng lamig, gaano kalala ang nararanasan mo na</i>	Ordinal 0 – 4 Rating from the respondents

		<i>pagbabago ng kulay (puti/maasul na puti/ asul) sa mga kamay at braso?</i>	
Pain Frequency		<i>Kapag nakakaramdam ng lamig, gaano kadalas mo nararanasan ang pananakit sa mga kamay at braso</i>	Ordinal 0 – 5 Rating from the respondents
Numbness Frequency		<i>Kapag nakakaramdam ng lamig, gaano kadalas mo nararanasan ang pamamanhid sa mga kamay at braso</i>	Ordinal 0 – 5 Rating from the respondents
Stiff ness Frequency		<i>Kapag nakakaramdam ng lamig, gaano kadalas mo nararanasan ang paninigas sa mga kamay at braso</i>	Ordinal 0 – 5 Rating from the respondents
Weakness Frequency		<i>Kapag nakakaramdam ng lamig, gaano kadalas mo nararanasan ang panghihina ng paghawak sa mga kamay at braso</i>	Ordinal 0 – 5 Rating from the respondents
Aching Frequency		<i>Kapag nakakaramdam ng lamig, gaano kadalas mo nararanasan ang patuloy na pananakit sa mga kamay at braso</i>	Ordinal 0 – 5 Rating from the respondents
Swelling Frequency		<i>Kapag nakakaramdam ng lamig, gaano kadalas mo nararanasan ang pamamaga sa mga kamay at braso</i>	Ordinal 0 – 5 Rating from the respondents
Skin Color Change Frequency		<i>Kapag nakakaramdam ng lamig, gaano kadalas mo nararanasan ang pagbabago ng kulay (puti/maasul na puti/ asul) sa mga kamay at braso</i>	Ordinal 0 - 5 Rating from the respondents
Pain Duration		<i>Kapag nararanasan ang pananakit at ikaw ay lumipat sa isang mainit na lugar, gaano katagal bago mawala ang pananakit?</i>	Ordinal 0 – 2 Rating from the respondents
Numbness Duration		<i>Kapag nararanasan ang pamamanhid at ikaw ay lumipat sa isang mainit na lugar, gaano katagal bago mawala ang sintomas?</i>	Ordinal 0 – 2 Rating from the respondents
Stiff ness		<i>Kapag nararanasan ang</i>	Ordinal 0 – 2 Rating from the

Duration		<i>paninigas at ikaw ay lumipat sa isang mainit na lugar, gaano katagal bago mawala ang paninigas?</i>	respondents
Weakness Duration		<i>Kapag nararanasan ang panghihina ng paghawak at ikaw ay lumipat sa isang mainit na lugar, gaano katagal bago mawala ang panghihina ng paghawak?</i>	Ordinal 0 – 2 Rating from the respondents
Aching Duration		<i>Kapag nararanasan ang patuloy na pananakit at ikaw ay lumipat sa isang mainit na lugar, gaano katagal bago mawala ang patuloy na pananakit?</i>	Ordinal 0 – 2 Rating from the respondents
Swelling Duration		<i>Kapag nararanasan ang pamamaga at ikaw ay lumipat sa isang mainit na lugar, gaano katagal bago mawala ang pamamaga?</i>	Ordinal 0 – 2 Rating from the respondents
Skin Color Change Duration		<i>Kapag nararanasan ang pagbabago ng kulay (puti/maasul na puti/ asul) at ikaw ay lumipat sa isang mainit na lugar, gaano katagal bago mawala ang pagbabago ng kulay?</i>	Ordinal 0 – 2 Rating from the respondents
Pain Coping		<i>Kapag nararanasan ang pananakit, ano ang iyong ginagawa upang maiwasan o mapagaan ang mga ito?</i>	Ordinal 0 – 3 Rating from the respondents
Numbness Coping		<i>Kapag nararanasan ang pamamanhid, ano ang iyong ginagawa upang maiwasan o mapagaan ang mga ito?</i>	Ordinal 0 – 3 Rating from the respondents
Stiff ness Coping		<i>Kapag nararanasan ang paninigas, ano ang iyong ginagawa upang maiwasan o mapagaan ang mga ito?</i>	Ordinal 0 – 3 Rating from the respondents
Weakness Coping		<i>Kapag nararanasan ang panghihina ng paghawak, ano ang iyong ginagawa upang maiwasan o mapagaan ang mga ito?</i>	Ordinal 0 – 3 Rating from the respondents
Aching		<i>Kapag nararanasan ang</i>	Ordinal 0 – 3 Rating from the

Coping		<i>patuloy na pananakit, ano ang iyong ginagawa upang maiwasan o mapagaan ang mga ito?</i>	respondents
Swelling Coping		<i>Kapag nararanasan ang pamamaga, ano ang iyong ginagawa upang maiwasan o mapagaan ang mga ito?</i>	Ordinal 0 – 3 Rating from the respondents
Skin Color Change Coping		<i>Kapag nararanasan ang pagbabago ng kulay (puti/maasul na puti/ asul), ano ang iyong ginagawa upang maiwasan o mapagaan ang mga ito?</i>	Ordinal 0 – 3 Rating from the respondents
Effect when holding items		<i>Gaano nakaka-abala ang lamig na nararanasan mo sa iyong kamay na may injury (kagaya ng bali o sugat) o sa kamay na nakakaranas ng mga sintomas habang naghahawak ng nagyeyelong bagay mula sa freezer o baso na may malamig na tubig?</i>	Ordinal 0 – 4 Rating from the respondents
Effect when washing		<i>Gaano nakaka-abala ang lamig na nararanasan mo sa iyong kamay na may injury (kagaya ng bali o sugat) o sa kamay na nakakaranas ng mga sintomas habang naghuhugas gamit ang malamig na tubig?</i>	Ordinal 0 – 4 Rating from the respondents
Effect when wind after hot bath		<i>Gaano nakaka-abala ang lamig na nararanasan mo sa iyong kamay na may injury (kagaya ng bali o sugat) o sa kamay na nakakaranas ng mga sintomas kapag natapos manligo gamit ang mainit na tubig at biglang nakaramdam ng hangin na nasa normal na temperatura?</i>	Ordinal 0 – 4 Rating from the respondents
Effect when season		<i>Gaano nakaka-abala ang lamig na nararanasan mo sa iyong kamay na may injury (kagaya ng bali o sugat) o sa kamay na nakakaranas ng</i>	Ordinal 0 – 4 Rating from the respondents

		<i>mga sintomas tuwing malamig at mahangin na panahon?</i>	
Effect when house chores		<i>Gaano naaapektuhan ng mga nararanasang sintomas ang iyong paggawa ng mga gawaing bahay?</i>	Ordinal 0 – 4 Rating from the respondents
Effect when interests		<i>Gaano naaapektuhan ng mga nararanasang sintomas ang iyong paggawa ng mga libangan at interes?</i>	Ordinal 0 – 4 Rating from the respondents
Effect when Un/dressing		<i>Gaano naaapektuhan ng mga nararanasang sintomas ang iyong pagsusuot at paghuhubad ng damit?</i>	Ordinal 0 – 4 Rating from the respondents
Effect when tying shoes		<i>Gaano naaapektuhan ng mga nararanasang sintomas ang iyong pagtatali ng swelas ng sapatos?</i>	Ordinal 0 – 4 Rating from the respondents
Effect when work		<i>Gaano naaapektuhan ng mga nararanasang sintomas ang iyong pangunahing pang-araw-araw na aktibidad/gawain?</i>	Ordinal 0 – 4 Rating from the respondents

Summary of Results of Test for Independence (p-values)**NMQE**

Demo- graphy	Neck	Shoulder	Upper back	Elbows	Lower back	Wrists or Hands	Hips or Thighs	Knees	Ankles or Feet
Age		.022				.034			
Highest Educ. Attain.	.04	.087							
Previou s Job	.033						.075		
Concurr . Job		.005	.032		.065				
Sleep		.019				.08			
Illness		.005	.051	.043	.046			.072	<.001
Vices			.002		.044				
Injury				.066				.051	.023
2- wheel exp			.018		.004				
4- wheel exp	.034								
Weekly tool use	.073					.029			.098
Time of day									

Functional Status Scale

Demo- graphy	Writing	Buttoning	Book	Telephone	Jar	House Chores	Grocery Basket	Bathing or Dressing
Age	.042	.066				.026	.068	.096
Highest Educ. Attain.	.021	.064						
Previou s Job						.093		.007
Concurr . Job								.02
Sleep	.084	.065		.1				
Illness								
Vices								
Injury					.086			

2-wheel exp		.044						
4-wheel exp								
Weekly tool use		.082						
Time of day		.002			.019	.002	.068	

Symptom Severity Scale

Demography	Pain Night	Frequency pain night	Morning pain	Frequency pain morning	Duration pain morning	Numbness	Weakness	Tingles	Severity W/T Night	Frequency N/T Night	Small items
Age											.096
Highest Educ. Attain.		.013					.006	.045			.002
Previous Job					.02				.097		
Concurrent Job	.009	.007	.027	.039	.038		.033	.027			
Sleep									.047		
Illness											
Vices			.018			.096			.091		
Injury											
2-wheel exp											
4-wheel exp										.065	
Weekly tool use		.079						.034	.057		
Time of day		<.001						.019	.027	.063	

CISS**Severity**

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age							

Highest Educ. Attain.	.033					.007	
Previous Job							.039
Concurr. Job							
Sleep	.052		.092	.02	.02	.084	
Illness						.067	
Vices	.014						
Injury	.002		.024	.063		.013	.081
2-wheel exp		.037					
4-wheel exp		.015					
Weekly tool use							
Time of day		.075	.072	.016	.04	.097	.003

Frequency

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age						.089	.043
Highest Educ. Attain.				.045	.061	<.001	.02
Previous Job		.021	.008		.095		.078
Concurr. Job							
Sleep			.02		.018		
Illness							
Vices		.082					
Injury							.044
2-wheel exp	.019						
4-wheel exp					.085		
Weekly tool use							
Time of day			.009	.06	.01	.008	<.001

Duration

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age			.035				.078
Highest Educ. Attain.		.052	.1	.011	.054	.005	.077
Previous Job	.03						.1
Concurr. Job							
Sleep							
Illness		.093	.015				
Vices	.095	.062					
Injury							
2-wheel exp	.036		.054		<.001		.067
4-wheel exp							
Weekly tool use	.028	.07			.094		
Time of day	.011				.004	.08	<.001

Coping

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age							
Highest Educ. Attain.	.008				.024	.037	
Previous Job							
Concurr. Job	.082				.067		
Sleep				.014	.002	.093	
Illness							
Vices	.07						
Injury		.078					
2-wheel exp	.019						
4-wheel exp							
Weekly tool use							.077

Time of day					.023	.008	<.001
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Effect when

Demo- graphy	Holding items	Washing	Wind after hot bath	Season	House Chores	Interests	Un/Dressing	Tying shoes	Work
Age				.031					
Highest Educ. Attain.									
Previou s Job				.045				.011	.075
Concurr . Job									
Sleep									
Illness	.069								
Vices					.059	.072			
Injury							.08		
2- wheel exp			.057						
4- wheel exp									.074
Weekly tool use	.019								
Time of day		.016		.003	.062	.012	.013	.004	.066

Summary for Results of Strength of Association (Potentially only strong and moderate)
 NMQE (Phi/V value and corresponding p-value for significant factors) [Normal = Weak, Bold
 = Moderate, Highlighted = Strong, Empty = Not Significant, Red = A little above 0.1]

Demo- graphy	Neck	Shoulder	Upper back	Elbows	Lower back	Wrists or Hands	Hips or Thighs	Knees	Ankles or Feet
Age		0.337, 0.022				.321, .034			
Highest Educ. Attain.	.297, .035	0.259, .087							
Previou s Job	.21, .033						.175, .075		
Concurr		.277,	.224,		.187,				

. Job		.005	.023		.057				
Sleep		.232, .019				.182, .065			
Illness		.275, .005	.192, .051	.208, .035	.197, .046			.183, .064	.35, <.001
Vices			.305, .002		.199, .044				
Injury				.199, .044				.32, .064	.244, .013
2-wheel exp			.375, .016		.405, .007				
4-wheel exp	.463, .056								
Weekly tool use	.318, .116					.364, .038			.322, .106
Time of day									

BCTS**Functional Status Scale**

Demo- graphy	Writing	Buttoning	Book	Telephone	Jar	House Chores	Grocery Basket	Bathing or Dressing
Age	.25, .091	.268, .04				.257, .067	.256, .05	.247, .137
Highest Educ. Attain.	.267, .013	.245, .067						
Previous Job						.239, .117		.284, .016
Concurrent Job								.215, .092
Sleep	.264, .067	.265, .065		.193, .285				
Illness								
Vices								
Injury					.317, .035			
2-wheel exp		.312, .031						
4-wheel exp								

wheel exp								
Weekly tool use		.284, .143						
Time of day		.329, .012			.314, .039	.362, .004	.28, .094	

Symptom Severity Scale

Demogra phy	Pai n Nig ht	Freque ncy pain night	Morni ng pain	Freque ncy pain mornin g	Durati on pain morni ng	Numbn ess	Weakn ess	Tingl es	Sever ity W/T Night	Freque ncy N/T Night	Sm all ite ms
Age											.24 7, .10 3
Highest Educ. Attain.		.263, .066					.289, .004	.232 , .072			.30 6, .00 1
Previou s Job					.318, .036				.246, .1		
Concurr . Job	.34 8, .00 6	.393, .003	.317, .016	.317, .037	.325, .029		.286, .041	.305 , .022			
Sleep									.294, .031		
Illness											
Vices			.267, .062			.252, .092			.245, .103		
Injury											
2-wheel exp											
4-wheel exp										.375, .111	
Weekly tool use		.294, .075						.327 , .02	.3, .075		
Time of day		.453, <.001						.309 , .021	.296, .03	.261, .077	

CISS

Severity

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age							
Highest Educ. Attain.	.285, .021					.291, .003	
Previous Job							.232, .135
Concurr. Job							
Sleep	.307, .045		.28, .088	.335, .022	.341, .007	.243, .11	
Illness						.271, .057	
Vices	.354, .012						
Injury	.512, <.001		.4, .002	.366, .008		.399, .001	.311, .019
2-wheel exp		.255, .124					
4-wheel exp		.4, .088					
Weekly tool use							
Time of day		.267, .122	.275, .102	.317, .038	.274, .053	.236, .13	.346, .007

Frequency

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age						.322, .002	.252, .133
Highest Educ. Attain.				.26, .083	.242, .053	.33, <.001	.267, .036
Previous Job		.315, .042	.325, .014		.24, .123		.215, .099
Concurr. Job							
Sleep			.316, .019		.311, .021		
Illness							
Vices		.284, .089					

Injury							.235, .063
2-wheel exp	.318, .012						
4-wheel exp					.439, .022		
Weekly tool use							
Time of day			.333, .012	.287, .086	.329, .013	.322, .017	.449, <.001

Duration

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age			.315, .015				
Highest Educ. Attain.		.247, .077	.281, .023	.268, .034	.254, .062	.341, .001	.241, .145
Previous Job	.264, .031						.173, .086
Concurr. Job							
Sleep							
Illness		.234, .069	.294, .014				
Vices	.214, .102	.235, .068					
Injury							
2-wheel exp	.292, .069		.346, .011		.476, <.001		.322, .072
4-wheel exp							
Weekly tool use	.355, .017	.301, .136			.332, .048		
Time of day	.268, .029				.317, .008	.214, .109	.341, <.001

Coping

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age							
Highest Educ.	.309, .001				.284, .008	.261, .024	

Attain.							
Previous Job							
Concurr. Job	.239, .123				.286, .047		
Sleep				.323, .015	.331, .014		
Illness							
Vices	.276, .053						
Injury		.338, .011					
2-wheel exp	.322, .008						
4-wheel exp							
Weekly tool use							.324, .064
Time of day					.299, .036	.321, .018	.35, .003

Effect when

Demo- graphy	Holding items	Washing	Wind after hot bath	Season	House Chores	Interests	Un/Dressing	Tying shoes	Work
Age				.295, .004					
Highest Educ. Attain.									
Previou s Job				.267, .118				.281, .045	.251, .165
Concurr . Job									
Sleep									
Illness	.272, .054								
Vices					.256, .08	.282, .086			
Injury									
2-			.294,						

wheel exp			.032						
4-wheel exp									.425, .049
Weekly tool use	.372, .001								
Time of day		.308, .022		.358, .011	.256, .083	.336, .021	.274, .022	.311, .021	.276, .1

Appendix C Summary of Statistical Test Results

Test for Independence (p-values)

NMQE

Demo-graphy	Neck	Shoulder	Upper back	Elbows	Lower back	Wrists or Hands	Hips or Thighs	Knees	Ankles or Feet
Age		.022				.034			
Highest Educ. Attain.	.04	.087							
Previous Job	.033						.075		
Concurrent Job		.005	.032		.065				
Sleep		.019				.08			
Illness		.005	.051	.043	.046			.072	<.001
Vices			.002		.044				
Injury				.066				.051	.023
2-wheel exp			.018		.004				
4-wheel exp	.034								
Weekly tool use	.073					.029			.098
Time of day									

Functional Status Scale

Demo-graphy	Writing	Buttoning	Book	Telephone	Jar	House Chores	Grocery Basket	Bathing or
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								Dressing
Age	.042	.066				.026	.068	.096
Highest Educ. Attain.	.021	.064						
Previous Job						.093		.007
Concurrent Job								.02
Sleep	.084	.065		.1				
Illness								
Vices								
Injury					.086			
2-wheel exp		.044						
4-wheel exp								
Weekly tool use		.082						
Time of day		.002			.019	.002	.068	

Symptom Severity Scale

Demography	Pain Night	Frequency pain night	Morning pain	Frequency pain morning	Duration pain morning	Numbness	Weakness	Tingles	Severity W/T Night	Frequency N/T Night	Small items
Age											.096
Highest Educ. Attain.		.013					.006	.045			.002
Previous Job					.02				.097		
Concurrent Job	.009	.007	.027	.039	.038		.033	.027			
Sleep									.047		
Illness											
Vices			.018			.096			.091		
Injury											
2-wheel											

exp											
4-wheel exp										.065	
Weekly tool use		.079						.034	.057		
Time of day		<.001						.019	.027	.063	

CISS**Severity**

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age							
Highest Educ. Attain.	.033					.007	
Previous Job							.039
Concurr. Job							
Sleep	.052		.092	.02	.02	.084	
Illness						.067	
Vices	.014						
Injury	.002		.024	.063		.013	.081
2-wheel exp		.037					
4-wheel exp		.015					
Weekly tool use							
Time of day		.075	.072	.016	.04	.097	.003

Frequency

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age						.089	.043
Highest Educ. Attain.				.045	.061	<.001	.02
Previous Job		.021	.008		.095		.078
Concurr. Job							
Sleep			.02		.018		

Illness							
Vices		.082					
Injury							.044
2-wheel exp	.019						
4-wheel exp					.085		
Weekly tool use							
Time of day			.009	.06	.01	.008	<.001

Duration

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age			.035				.078
Highest Educ. Attain.		.052	.1	.011	.054	.005	.077
Previous Job	.03						.1
Concurr. Job							
Sleep							
Illness		.093	.015				
Vices	.095	.062					
Injury							
2-wheel exp	.036		.054		<.001		.067
4-wheel exp							
Weekly tool use	.028	.07			.094		
Time of day	.011				.004	.08	<.001

Coping

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age							
Highest Educ. Attain.	.008				.024	.037	
Previous Job							

Concurr. Job	.082				.067		
Sleep				.014	.002	.093	
Illness							
Vices	.07						
Injury		.078					
2-wheel exp	.019						
4-wheel exp							
Weekly tool use							.077
Time of day					.023	.008	<.001

Effect when

Demo- graphy	Holding items	Washing	Wind after hot bath	Season	House Chores	Interests	Un/Dressing	Tying shoes	Work
Age				.031					
Highest Educ. Attain.									
Previou s Job				.045				.011	.075
Concurr . Job									
Sleep									
Illness	.069								
Vices					.059	.072			
Injury							.08		
2- wheel exp			.057						
4- wheel exp									.074
Weekly tool use	.019								
Time of day		.016		.003	.062	.012	.013	.004	.066

Test for Strength of Association (Potentially only strong and moderate)**NMQE (Phi/V value and corresponding p-value for significant factors) [Normal = Weak, Bold**

= Moderate, Highlighted = Strong, Empty = Not Significant, Red = A little above 0.1]

Demo- graphy	Neck	Shoulder	Upper back	Elbows	Lower back	Wrists or Hands	Hips or Thighs	Knees	Ankles or Feet
Age		0.337, 0.022				.321, .034			
Highest Educ. Attain.	.297, .035	0.259, .087							
Previous Job	.21, .033						.175, .075		
Concurrent Job		.277, .005	.224, .023		.187, .057				
Sleep		.232, .019				.182, .065			
Illness		.275, .005	.192, .051	.208, .035	.197, .046			.183, .064	.35, <.001
Vices			.305, .002		.199, .044				
Injury				.199, .044				.32, .064	.244, .013
2- wheel exp			.375, .016		.405, .007				
4- wheel exp	.463, .056								
Weekly tool use	.318, .116					.364, .038			.322, .106
Time of day									

BCTS**Functional Status Scale**

Demo- graphy	Writing	Buttoning	Book	Telephone	Jar	House Chores	Grocery Basket	Bathing or Dressing
Age	.25, .091	.268, .04				.257, .067	.256, .05	.247, .137
Highest Educ. Attain.	.267, .013	.245, .067						
Previous Job						.239, .117		.284, .016

Concurr . Job									.215, .092
Sleep	.264, .067	.265, .065		.193, .285					
Illness									
Vices									
Injury					.317, .035				
2-wheel exp		.312, .031							
4-wheel exp									
Weekly tool use		.284, .143							
Time of day		.329, .012			.314, .039	.362, .004	.28, .094		

Symptom Severity Scale

Demogra phy	Pai n Nig ht	Freque ncy pain night	Morni ng pain	Freque ncy pain mornin g	Durati on pain morni ng	Numbn ess	Weakn ess	Tingl es	Sever ity W/T Night	Freque ncy N/T Night	Sm all ite ms
Age											.24 7, .10 3
Highest Educ. Attain.		.263, .066					.289, .004	.232 , .072			.30 6, .00 1
Previou s Job					.318, .036				.246, .1		
Concurr . Job	.34 8, .00 6	.393, .003	.317, .016	.317, .037	.325, .029		.286, .041	.305 , .022			
Sleep									.294, .031		
Illness											
Vices			.267, .062			.252, .092			.245, .103		

Injury											
2-wheel exp											
4-wheel exp										.375, .111	
Weekly tool use		.294, .075						.327, .02	.3, .075		
Time of day		.453, <.001						.309, .021	.296, .03	.261, .077	

CISS**Severity**

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age							
Highest Educ. Attain.	.285, .021					.291, .003	
Previous Job							.232, .135
Concurr. Job							
Sleep	.307, .045		.28, .088	.335, .022	.341, .007	.243, .11	
Illness						.271, .057	
Vices	.354, .012						
Injury	.512, <.001		.4, .002	.366, .008		.399, .001	.311, .019
2-wheel exp		.255, .124					
4-wheel exp		.4, .088					
Weekly tool use							
Time of day		.267, .122	.275, .102	.317, .038	.274, .053	.236, .13	.346, .007

Frequency

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color
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							Change
Age						.322, .002	.252, .133
Highest Educ. Attain.				.26, .083	.242, .053	.33, <.001	.267, .036
Previous Job		.315, .042	.325, .014		.24, .123		.215, .099
Concurr. Job							
Sleep			.316, .019		.311, .021		
Illness							
Vices		.284, .089					
Injury							.235, .063
2-wheel exp	.318, .012						
4-wheel exp					.439, .022		
Weekly tool use							
Time of day			.333, .012	.287, .086	.329, .013	.322, .017	.449, <.001

Duration

Demograph y	Pain	Numbnes s	Stiffness	Weaknes s	Aching	Swelling	Skin Color Change
Age			.315, .015				
Highest Educ. Attain.		.247, .077	.281, .023	.268, .034	.254, .062	.341, .001	.241, .145
Previous Job	.264, .031						.173, .086
Concurr. Job							
Sleep							
Illness		.234, .069	.294, .014				
Vices	.214, .102	.235, .068					

Injury							
2-wheel exp	.292, .069		.346, .011		.476, <.001		.322, .072
4-wheel exp							
Weekly tool use	.355, .017	.301, .136			.332, .048		
Time of day	.268, .029				.317, .008	.214, .109	.341, <.001

Coping

Demograph y	Pain	Numbnes s	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age							
Highest Educ. Attain.	.309, .001				.284, .008	.261, .024	
Previous Job							
Concurr. Job	.239, .123				.286, .047		
Sleep				.323, .015	.331, .014		
Illness							
Vices	.276, .053						
Injury		.338, .011					
2-wheel exp	.322, .008						
4-wheel exp							
Weekly tool use							.324, .064
Time of day					.299, .036	.321, .018	.35, .003

Effect when

Demo-graphy	Holding items	Washing	Wind after hot bath	Season	House Chores	Interests	Un/Dressing	Tying shoes	Work
Age				.295, .004					

Highest Educ. Attain.									
Previous Job				.267, .118				.281, .045	.251, .165
Concurrent Job									
Sleep									
Illness	.272, .054								
Vices					.256, .08	.282, .086			
Injury									
2-wheel exp			.294, .032						
4-wheel exp									.425, .049
Weekly tool use	.372, .001								
Time of day		.308, .022		.358, .011	.256, .083	.336, .021	.274, .022	.311, .021	.276, .1

Appendix D Summary of Test Statistic Parameters

Summary of Parameters of Test for Independence (N, df)

NMQE

De mo- gra phy	Neck	Shoulder	Upper back	Elbows	Lower back	Wrists or Hands	Hips or Thighs	Knees	Ankles or Feet
Age	N= 101 df =4	N= 101 df =4	N= 101 df =4	N= 101 df =4	N= 101 df =4	N= 101 df =4	N= 101 df =4	N= 101 df =4	N= 101 df =4
Highest Educ. Attain.	N= 98 df =3	N= 98 df =3	N= 98 df =3	N= 98 df =3	N= 98 df =3	N= 98 df =3	N= 98 df =3	N= 98 df =3	N= 98 df =3
Previous Job	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1
Concurrent Job	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1
Sleep	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1
Illness	N= 103	N= 103	N= 103	N= 103	N= 103	N= 103	N= 103	N= 103	N= 103

	df =1	df =1	df =1	df =1	df =1	df =1	df =1	df =1	df =1
Vices	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1
Injury	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1	N= 103 df =1
2-wheel exp	N= 87 df =4	N= 87 df =4	N= 87 df =4	N= 87 df =4	N= 87 df =4	N= 87 df =4	N= 87 df =4	N= 87 df =4	N= 87 df =4
4-wheel exp	N= 43 df =4	N= 43 df =4	N= 43 df =4	N= 43 df =4	N= 43 df =4	N= 43 df =4	N= 43 df =4	N= 43 df =4	N= 43 df =4
Weekly tool use	N= 101 df =6	N= 101 df =6	N= 101 df =6	N= 101 df =6	N= 101 df =6	N= 101 df =6	N= 101 df =6	N= 101 df =6	N= 101 df =6
Time of day	N= 102 df =1	N= 102 df =1	N= 102 df =1	N= 102 df =1	N= 102 df =1	N= 102 df =1	N= 102 df =1	N= 102 df =1	N= 102 df =1

BCTS**Functional Status Scale**

Demo- graphy	Writing	Buttoning	Book	Telephon e	Jar	House Chores	Grocery	Bathing or Dressing
Age	N= 101 df = 12	N= 101 df = 12	N= 100 df = 12	N= 100 df = 12	N= 101 df = 16	N= 101 df = 12	N= 100 df = 16	N= 101 df = 8
Highest Educ. Attain.	N= 98 df =9	N= 98 df =6	N= 98 df =6	N= 97 df =9	N= 98 df =12	N= 98 df =9	N= 98 df =12	N= 98 df =6
Previou s Job	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 102 df =3	N= 103 df =4	N= 103 df =3	N= 102 df =4	N= 103 df =2
Concurr . Job	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 102 df =3	N= 103 df =4	N= 103 df =3	N= 102 df =4	N= 103 df =2
Sleep	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 102 df =3	N= 103 df =4	N= 103 df =3	N= 102 df =4	N= 103 df =2
Illness	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 102 df =3	N= 103 df =4	N= 103 df =3	N= 102 df =4	N= 103 df =2
Vices	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 102 df =3	N= 103 df =4	N= 103 df =3	N= 102 df =4	N= 103 df =2
Injury	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 102 df =3	N= 103 df =4	N= 103 df =3	N= 102 df =4	N= 103 df =2
2-wheel exp	N= 87 df =12	N= 87 df =8	N= 86 df =12	N= 86 df =12	N= 87 df =16	N= 87 df =12	N= 87 df =16	N= 87 df =8
4-wheel exp	N= 43 df =12	N= 43 df =8	N= 42 df =8	N= 43 df =8	N= 43 df =8	N= 43 df =8	N= 43 df =16	N= 43 df =4

Weekly tool use	N= 101 df =18	N= 101 df =18	N= 100 df =18	N= 100 df =18	N= 101 df =24	N= 101 df =18	N= 100 df =24	N= 101 df =12
Time of day	N= 102 df =3	N= 102 df =3	N= 101 df =3	N= 101 df =3	N= 102 df =4	N= 102 df =3	N= 101 df =4	N= 102 df =2

Symptom Severity Scale

Demograp hy	Pain Night	Freque ncy pain night	Morni ng pain	Freque ncy pain mornin g	Durati on pain morni ng	Numbn ess	Weakn ess	Tingl es	Sever ity N/T Night	Frequ ency N/T Night	Small items
Age	N= 101 df = 12	N= 100 df = 16	N= 101 df = 12	N= 100 df = 16	N= 100 df = 16	N= 99 df = 12	N= 99 df = 12	N= 101 df = 12	N= 101 df = 12	N= 100 df = 12	N= 101 df = 12
High est Educ . Attain.	N= 98 df =9	N= 97 df =12	N= 98 df =9	N= 97 df =12	N= 97 df =12	N= 96 df =9	N= 96 df =9	N= 98 df =9	N= 98 df =9	N= 97 df =9	N= 98 df =9
Previ ous Job	N= 103 df =3	N= 102 df =4	N= 103 df =3	N= 102 df =4	N= 102 df =4	N= 101 df =3	N= 101 df =3	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 103 df =3
Conc urre. Job	N= 103 df =3	N= 102 df =4	N= 103 df =3	N= 102 df =4	N= 102 df =4	N= 101 df =3	N= 101 df =3	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 103 df =3
Slee p	N= 103 df =3	N= 102 df =4	N= 103 df =3	N= 102 df =4	N= 102 df =4	N= 101 df =3	N= 101 df =3	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 103 df =3
Illnes s	N= 103 df =3	N= 102 df =4	N= 103 df =3	N= 102 df =4	N= 102 df =4	N= 101 df =3	N= 101 df =3	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 103 df =3
Vices	N= 103 df =3	N= 102 df =4	N= 103 df =3	N= 102 df =4	N= 102 df =4	N= 101 df =3	N= 101 df =3	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 103 df =3
Injur y	N= 103 df =3	N= 102 df =4	N= 103 df =3	N= 102 df =4	N= 102 df =4	N= 101 df =3	N= 101 df =3	N= 103 df =3	N= 103 df =3	N= 102 df =3	N= 103 df =3
2- whe	N= 87 df =12	N= 86 df =16	N= 87 df	N= 86 df =12	N= 87 df	N= 85 df =12	N= 85 df =12	N= 87	N= 87	N= 86	N= 87

el exp			=12		=16			df =12	df =12	df =12	df =12
4- whe el exp	N= 43 df =8	N= 43 df =12	N= 43 df =8	N= 43 df =8	N= 43 df =12	N= 42 df =8	N= 42 df =8	N= 43 df =8	N= 43 df =8	N= 43 df =12	N= 43 df =8
Wee kly tool use	N= 101 df =18	N= 100 df =24	N= 101 df =18	N= 100 df =24	N= 101 df =24	N= 99 df =18	N= 99 df =18	N= 101 df =18	N= 101 df =18	N= 100 df =18	N= 101 df =18
Time of day	N= 102 df =3	N= 101 df =4	N= 102 df =3	N= 101 df =4	N= 101 df =4	N= 100 df =3	N= 100 df =3	N= 102 df =3	N= 102 df =3	N= 101 df =3	N= 102 df =3

CISS**Severity**

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age	N=101 df = 16	N=101 df = 16	N=101 df = 16	N=101 df = 16	N=101 df = 12	N=100 df = 12	N=101 df = 12
Highest Educ. Attain.	N=98 df = 12	N=98 df = 12	N=98 df = 12	N=97 df = 12	N=98 df = 9	N=97 df = 9	N=98 df = 9
Previous Job	N= 103 df =4	N= 103 df =4	N= 103 df =4	N= 102 df =4	N= 103 df =3	N= 102 df =3	N= 103 df =3
Concurr. Job	N= 103 df =4	N= 103 df =4	N= 103 df =4	N= 102 df =4	N= 103 df =3	N= 102 df =3	N= 103 df =3
Sleep	N= 103 df =4	N= 103 df =4	N= 103 df =4	N= 102 df =4	N= 103 df =3	N= 102 df =3	N= 103 df =3
Illness	N= 103 df =4	N= 103 df =4	N= 103 df =4	N= 102 df =4	N= 103 df =3	N= 102 df =3	N= 103 df =3
Vices	N= 103 df =4	N= 103 df =4	N= 103 df =4	N= 102 df =4	N= 103 df =3	N= 102 df =3	N= 103 df =3
Injury	N= 103 df =4	N= 103 df =4	N= 103 df =4	N= 102 df =4	N= 103 df =3	N= 102 df =3	N= 103 df =3
2-wheel exp	N=87 df = 16	N=87 df = 16	N=87 df = 16	N=86 df = 16	N=87 df = 12	N=86 df = 12	N=87 df = 12
4-wheel exp	N= 43 df =8	N= 43 df =8	N= 43 df =8	N= 43 df =8	N= 43 df =8	N= 43 df =8	N= 43 df =8
Weekly tool use	N= 101 df =24	N= 101 df =24	N= 101 df =24	N= 100 df =24	N= 101 df =18	N= 100 df =18	N= 101 df =18
Time of day	N= 102 df =4	N= 102 df =4	N= 102 df =4	N= 101 df =4	N= 102 df =3	N= 101 df =3	N= 102 df =3

Frequency

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age	N=99 df = 12	N=98 df = 16	N=98 df = 12	N=98 df = 16	N=98 df = 12	N=98 df = 12	N=98 df = 8
Highest Educ. Attain.	N=96 df = 9	N=95 df = 12	N=95 df = 9	N=95 df = 12	N=95 df = 9	N=95 df = 9	N=95 df = 6
Previous Job	N= 101 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =3	N= 100 df =2
Concurr. Job	N= 101 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =3	N= 100 df =2
Sleep	N= 101 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =3	N= 100 df =2
Illness	N= 101 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =3	N= 100 df =2
Vices	N= 101 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =3	N= 100 df =2
Injury	N= 101 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =4	N= 100 df =3	N= 100 df =3	N= 100 df =2
2-wheel exp	N=85 df = 12	N=84 df = 16	N=84 df = 12	N=84 df = 16	N=84 df = 12	N=84 df = 12	N=84 df = 8
4-wheel exp	N= 42 df =8	N= 41 df =12	N= 41 df =12	N= 42 df =8	N= 41 df =12	N= 41 df =4	N= 41 df =8
Weekly tool use	N= 99 df =18	N= 98 df =24	N= 98 df =18	N= 98 df =24	N= 98 df =18	N= 98 df =18	N= 98 df =12
Time of day	N= 100 df =3	N= 99 df =4	N= 99 df =3	N= 99 df =4	N= 99 df =3	N= 99 df =3	N= 99 df =2

Duration

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age	N=98 df = 8	N=96 df = 8	N=96 df = 8	N=98 df = 8	N=96 df = 8	N=96 df = 8	N=96 df = 4
Highest Educ. Attain.	N=95 df = 6	N=93 df = 6	N=93 df = 6	N=95 df = 6	N=93 df = 6	N=93 df = 6	N=93 df = 3
Previous Job	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 98 df =1
Concurr. Job	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 98 df =1
Sleep	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 98 df =1
Illness	N= 100	N= 98	N= 98	N= 100	N= 98	N= 98	N= 98

	df =2	df =2	df =2	df =2	df =2	df =2	df =1
Vices	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 98 df =1
Injury	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 100 df =2	N= 98 df =2	N= 98 df =2	N= 98 df =1
2-wheel exp	N=85 df = 8	N=83 df = 8	N=83 df = 8	N=85 df = 8	N=83 df = 8	N=83 df = 8	N=83 df = 4
4-wheel exp	N= 41 df =8	N= 39 df =4	N= 39 df =8	N= 41 df =8	N= 39 df =8	N= 39 df =8	N= 39 df =4
Weekly tool use	N= 98 df =12	N= 96 df =12	N= 96 df =12	N= 98 df =12	N= 96 df =12	N= 96 df =12	N= 96 df =6
Time of day	N= 99 df =2	N= 97 df =2	N= 97 df =2	N= 99 df =2	N= 97 df =2	N= 97 df =2	N= 97 df =1

Coping

Demography	Pain	Numbness	Stiffness	Weakness	Aching	Swelling	Skin Color Change
Age	N=99 df = 12	N=96 df = 12	N=95 df = 12	N=99 df = 12	N=95 df = 12	N=97 df = 12	N=96 df = 8
Highest Educ. Attain.	N=96 df = 9	N=93 df = 9	N=92 df = 9	N=96 df = 9	N=92 df = 9	N=94 df = 9	N=93 df = 6
Previous Job	N= 101 df =3	N= 98 df =3	N= 97 df =3	N= 101 df =3	N= 97 df =3	N= 99 df =3	N= 98 df =2
Concurr. Job	N= 101 df =3	N= 98 df =3	N= 97 df =3	N= 101 df =3	N= 97 df =3	N= 99 df =3	N= 98 df =2
Sleep	N= 101 df =3	N= 98 df =3	N= 97 df =3	N= 101 df =3	N= 97 df =3	N= 99 df =3	N= 98 df =2
Illness	N= 101 df =3	N= 98 df =3	N= 97 df =3	N= 101 df =3	N= 97 df =3	N= 99 df =3	N= 98 df =2
Vices	N= 101 df =3	N= 98 df =3	N= 97 df =3	N= 101 df =3	N= 97 df =3	N= 99 df =3	N= 98 df =2
Injury	N= 101 df =3	N= 98 df =3	N= 97 df =3	N= 101 df =3	N= 97 df =3	N= 99 df =3	N= 98 df =2
2-wheel exp	N=86 df = 12	N=83 df = 12	N=82 df = 12	N=86 df = 12	N=82 df = 12	N=84 df = 12	N=84 df = 8
4-wheel exp	N= 41 df =8	N= 39 df =12	N= 39 df =12	N= 41 df =12	N= 39 df =12	N= 39 df =4	N= 38 df =4
Weekly tool use	N= 99 df =18	N= 96 df =18	N= 95 df =18	N= 99 df =18	N= 95 df =18	N= 97 df =18	N= 96 df =12
Time of day	N= 100 df =3	N= 97 df =3	N= 96 df =3	N= 100 df =3	N= 96 df =3	N= 98 df =3	N= 97 df =2

Effect when

Demo- graphy	Holding items	Washing	Wind after hot bath	Season	House Chores	Interests	Un/Dressing	Tying shoes	Work
Age	N=101 df = 12	N=101 df = 12	N=101 df = 12	N=101 df = 16	N=101 df = 12	N=101 df = 16	N=101 df = 8	N=101 df = 12	N=101 df = 16
Highest Educ. Attain.	N=98 df = 9	N=98 df = 9	N=98 df = 9	N=98 df = 12	N=98 df = 9	N=98 df = 12	N=98 df = 6	N=97 df = 9	N=98 df = 12
Previous Job	N= 103 df =3	N= 103 df =3	N= 103 df =3	N= 103 df =4	N= 103 df =3	N= 103 df =4	N= 103 df =2	N= 102 df =3	N= 103 df =4
Concurrent Job	N= 103 df =3	N= 103 df =3	N= 103 df =3	N= 103 df =4	N= 103 df =3	N= 103 df =4	N= 103 df =2	N= 102 df =3	N= 103 df =4
Sleep	N= 103 df =3	N= 103 df =3	N= 103 df =3	N= 103 df =4	N= 103 df =3	N= 103 df =4	N= 103 df =2	N= 102 df =3	N= 103 df =4
Illness	N= 103 df =3	N= 103 df =3	N= 103 df =3	N= 103 df =4	N= 103 df =3	N= 103 df =4	N= 103 df =2	N= 102 df =3	N= 103 df =4
Vices	N= 103 df =3	N= 103 df =3	N= 103 df =3	N= 103 df =4	N= 103 df =3	N= 103 df =4	N= 103 df =2	N= 102 df =3	N= 103 df =4
Injury	N= 103 df =3	N= 103 df =3	N= 103 df =3	N= 103 df =4	N= 103 df =3	N= 103 df =4	N= 103 df =2	N= 102 df =3	N= 103 df =4
2- wheel exp	N= 87 df =12	N= 87 df =12	N= 87 df =12	N= 87 df =16	N= 87 df =12	N= 87 df =16	N= 87 df =8	N= 86 df =12	N= 87 df =16
4- wheel exp	N= 43 df =8	N= 43 df =8	N= 43 df =8	N= 43 df =8	N= 43 df =4	N= 43 df =8	N= 43 df =4	N= 43 df =4	N= 43 df =8
Weekly tool use	N= 101 df =18	N= 101 df =18	N= 101 df =18	N= 101 df =24	N= 101 df =18	N= 101 df =24	N= 101 df =12	N= 100 df =18	N= 101 df =24
Time of day	N= 102 df =3	N= 102 df =3	N= 102 df =3	N= 102 df =4	N= 102 df =3	N= 102 df =4	N= 102 df =2	N= 101 df =3	N= 102 df =4