

## **Supplemental tables**

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Table S 1. Sociodemographic characteristics of the study population, by job type and site

Group	Informal		Formal	
	Santiago N = 53	Temuco N = 25	Recycling company N = 15	p-value
<i>Demographic</i>				
Sex (%male)	72	92	53	<b>0.021</b>
Age (mean)	47	52	39	<b>0.018</b>
Marital status (%)				
- Married	34	60	53	0.099
- Single	51	20	33	
- Living with partner	7.5	16	0	
- Separated	1.9	4	13	
- Divorced	3.8	0	0	
- Widowed	1.9	0	0	
Family members* (mean)	3.8	3.8	3.5	0.774
Children under 21 years old (%)	53	44	40	0.596
Level of school (%)				
- Medium	34	56	60	0.336
- Basic	40	24	20	
- Superior	17	12	20	
- None	9.4	8	0	
<i>Socioeconomic</i>				
Main sources of income** (%)				
- Electric or electronic waste	85	80	80	0.672
- Other types of waste	55	20	0	<b>0.000</b>
- Other	23	24	13	0.178
Monthly income† (%)				
- Less than \$165	7.6	0	0	0.527
- \$167 - 495	36	24	20	
- \$497 - 1,156	36	36	47	
- \$1,156 - 1,651	7.5	32	20	
- More than \$1,651	3.8	8	6.7	
- Prefer not to answer	9.4	0	6.7	

\*Supported by household income †Parity of CLP\$ 606 per dollar at 04/04/18 \*\*There could be more than one source of income

Table S 2. Work history and recycling activities, by job type and site

Group	Informal		Formal	p-value
	Santiago N = 53	Temuco N = 25	Recycling company N = 15	
Currently employed (%)	94	100	100	0.310
Currently involved in e-waste activities (%)	99	100	100	0.683
E-waste as main source of income (%)	52	72	100	<b>0.002</b>
Current job(s)*				
- Electric or electronic waste recycling	68	32	93	<b>0.000</b>
- Electronics collection	50	24	0	<b>0.001</b>
- Electronics repairer	26	60	0	<b>0.000</b>
- Scrap dealer	40	8	0	<b>0.001</b>
- Retired	7.5	4	0	0.488
- Other	32	32	20	0.648
Role in e-waste recycling (%)				
- Recyclers	55	12	73	<b>0.000</b>
- Collectors	66	16	0	<b>0.000</b>
- Repair shop	26	72	0	<b>0.000</b>
- Raw materials buyer	11	0	20	0.097
Years working with e-waste (mean)	14	16	2.3	<b>0.001</b>
Hours of work per day (%)				
- Less than 5 hours	5.8	4.0	0.0	0.053
- 5-8 hours	50	64	93	
- More than 8 hours	44	32	6.7	
Work days per week (mean)	5.7	5.9	5.8	0.763

\*Multiple choices allowed

Table S 3. Health characteristics of the study population, by job type and site

Group	Informal		Formal	p-value
	Santiago N = 53	Temuco N = 25	Recycling company N = 15	
In general, your overall health is (%):				
- Good	43	52	60	0.701
- Fair	34	32	27	
- Very good	9.4	12	13	
- Poor	9.4	0	0	
- Excellent	3.8	4	0	
<i>Self-reported health status</i>				
Pregnant participants (%)	0	0	6.7	<b>0.02</b>
Past smoker* (%)	47	40	33	0.595
Current smoker (%)	38	24	20	0.281
Symptoms experienced in the last 2 weeks				
<i>- Skin rashes (%)</i>				
Rarely or never	85	80	87	0.842
Occasionally	9.4	12	13	
Always or frequently	5.7	8	0	
<i>- Headache or dizziness (%)</i>				
Rarely or never	47	52	67	0.674
Occasionally	38	44	27	
Always or frequently	13	4	6.7	
<i>- Shaking or tremors (%)</i>				
Rarely or never	93	92	100	0.741
Occasionally	5.7	8	0	
Always or frequently	1.9	0	0	
<i>- Blood in urine (%)</i>				
Rarely or never	94	100	100	
Occasionally	3.8	0	0	
Always or frequently	1.9	0	0	0.674
<i>- Blood in stool (%)</i>				
Rarely or never	98	96	100	0.479
Occasionally	0	4	0	
Always or frequently	1.9	0	0	
<i>- Breathing problems (%)</i>				
Rarely or never	68	84	87	0.288
Occasionally	28	12	6.7	
Always or frequently	3.8	4	6.7	
<i>- Heart beating abnormally (%)</i>				
Rarely or never	55	88	93	<b>0.008</b>
Occasionally	40	12	6.7	
Always or frequently	5.7	0	0	
<i>- Loose or watery stools (%)</i>				
Rarely or never	83	88	87	0.408
Occasionally	15	4	6.7	
Always or frequently	1.9	8	6.7	
<i>- Fever (%)</i>				
Rarely or never	89	88	100	0.625
Occasionally	9.4	12	0	
Always or frequently	1.9	0	0	
<i>- Nausea or stomach ache (%)</i>				
Rarely or never	76	76	80	0.962
Occasionally	21	20	13	

Always or frequently	3.8	4	6.7	
Sought medical care or treatment <sup>†</sup> (%)	34	20	27	0.632
Type of medical care preferred (%)				
- Clinic/hospital	95	80	75	0.08
- Traditional medicine	0	20	0	
- N/A	5.3	0	0	
- Other	0	0	25	
Chronic diseases reported by participant (%)				
- NA/None of these	42	56	73	0.076
- High blood pressure	26	32	13	0.421
- Diabetes Mellitus	15	20	0	0.197
- Asthma	5.7	4	6.7	0.927
- Heart disease	9.4	0	0	0.136
- Stroke	3.8	4	6.7	0.885
- Kidney disease	1.9	4	6.7	0.631
- Liver disease	0	4	0	0.253
- Other	30	8	0	<b>0.008</b>
On medication for any of these (%)	65	55	75	0.735
Health impairments/problems that limit work (%)	28	0	0	<b>0.001</b>
Unintentional weight loss in the past year (%)	25	8	40	0.056

\*Have you smoked at least 100 cigarettes during your entire life?

<sup>†</sup>One participant answered "Don't know (2%)

Table S 4. Self-report of stress in the study population, by job type and site

Group	Informal		Formal	p-value
	Santiago N = 53	Temuco N = 25	Recycling company N = 15	
<i>Stressors</i>				
Cohen's perceived stress scale				
In the last month, how often have you felt:				
- Unable to control important things in life (%)				
Never	30	40	60	0.388
Almost never	23	20	13	
Sometimes	32	24	27	
Fairly often	13	8	0	
Very often	1.9	8	0	
- Confident about ability to handle problems (%)				
Never	5.7	0	0	0.284
Almost never	5.7	8	0	
Sometimes	7.5	4	13	
Fairly often	51	32	33	
Very often	30	56	53	
- Things were going your way (%)				
Never	3.8	0	6.7	0.301
Almost never	7.5	4	0	
Sometimes	40	16	40	
Fairly often	42	60	40	
Very often	7.5	20	13	
- Couldn't overcome difficulties (%)				
Never	28	40	27	0.619
Almost never	25	32	33	
Sometimes	32	24	40	
Fairly often	11	4	0	
Very often	3.8	0	0	
- Someone else decide work methods/pace/order (%)				
Never/Almost never	83	68	73	0.359
Occasionally	11	16	6.7	
Always or frequently	5.7	16	20	
- Experience violence or harassment at work (%)				
Never/Almost never	85	72	93	0.066
Occasionally	9.4	24	0	
Always or frequently	5.7	4	0	
Prefer not to answer	0	0	6.7	
- Work interfere with family responsibilities/leisure time (%)				
Never/Almost never	60	60	73	0.88
Occasionally	26	24	20	
Always or frequently	13	16	6.7	
- Income not sufficient to support family (%)				
Never/Almost never	30	64	40	<b>0.029</b>
Occasionally	34	16	47	
Always or frequently	36	20	13	

Table S 5. Self-report noise exposure in the study population, by job type and site

Group	Informal		Formal	
	Santiago N = 53	Temuco N = 25	Recycling company N = 15	p-value
<i>Occupational noise exposure</i>				
Experienced difficulties hearing (%)	23	36	33	0.414
Time with difficulties hearing (%)				
- Since childhood	8.3	0	20	0.548
- Since adolescence	8.3	0	0	
- Since adulthood	83	100	80	
Diagnosed with hearing loss (%)	7.5	8	13	0.774
Exposed to loud noise at work (%)				
- Never	23	28	13	0.088
- Almost never	19	24	6.7	
- Sometimes	38	12	20	
- Fairly often	9.4	24	33	
- Very often	11	12	27	
Years working in loud noise (mean)	7.8	16	3.6	<b>0.004</b>
Experienced tinnitus after spending time in loud noise (%)				
- Never	51	60	40	0.255
- Almost never	11	16	27	
- Sometimes	32	24	13	
- Fairly often	3.8	0	13	
- Very often	1.9	0	6.7	

Table S 6. Self-report injuries in the study population, by job type and site

Group	Informal		Formal	p-value
	Santiago N = 53	Temuco N = 25	Recycling company N = 15	
Injuries in e-waste recycling work in the past 6 months (mean)	2.2	5.4	1.7	0.131
<i>For the worst injury during electric or electronic waste recycling work:</i>				
Activity at the time of injury (%)				
- Dismantling electronic equipment	32	36	27	0.829
- Sorting electronic waste	13	24	13	0.457
- Collecting electronic waste	11	4	6.7	0.537
- Removing covering of wires	3.8	0	0	0.462
- Burning activities	0	0	0	-
- Ash/wire collection after burning	0	0	0	-
- Other	23	32	27	0.676
Body part(s) injured (%)				
- Hand	42	48	6.7	<b>0.022</b>
- Lower leg	9.4	4	13	0.564
- Foot	11	4	0	0.251
- Hip	3.8	4	6.7	0.885
- Other	11	28	33	0.072
Type of injury (%)				
- Cuts/lacerations	38	28	13	0.182
- Contusions/abrasions	13	16	27	0.457
- Punctured wounds	15	0	0	<b>0.037</b>
- Sprains/strains	1.9	8	6.7	0.41
- Burns/scalds	0	12	0	<b>0.015</b>
- Fractures	1.9	0	0	0.683
- Other	13	28	27	0.224
Medical care received (%)				
- Self-administered first aid	60	23	9.1	<b>0.007</b>
- No medical care	19	46	27	
- Treatment at hospital/clinic	11	9.1	36	
- Other	11	23	27	
Participants hospitalized (%)				
- Missed work (%)	0.0	0.0	0.0	0.636
- Did not miss any work and worked regular job	81	77	55	0.07
- Missed work	11	23	46	
- Did not miss any work and worked regular job	8.1	0	0	
Missed work days (%)				
- Less than 1 day	0	20	0	0.1
- 1-5 days	0	20	40	
- 5-7 days	50	0	20	
- More than 7 days	50	0	0	
- Does not apply	0	60	40	
Tools/parts of work that lead to more frequent injuries (%)				
- Yes	70	56	27	<b>0.031</b>
- Unsure	1.9	0	0	
Job task that you have experienced more injuries when performing it (%)				
- Yes	55	56	40	0.417
- Unsure	5.7	0	0	
Instructions/training prior to injury (%)				



- Yes	22	14	9.1	0.51
- Don't know	5.4	0	0	
Use of safety equipment at work (%)				
- Leather/rubber gloves	60	32	87	<b>0.002</b>
- Rubber-soled boots or shoes	32	60	93	<b>0</b>
- Safety glasses/face shields/eye protection	40	36	20	0.373
- Dust mask	15	16	20	0.901
- Latex/plastic gloves	11	20	0	0.163
- Earplugs or earmuffs	7.5	8	13	0.774
- Other	19	16	27	0.704
Pain in hands or wrists after working with e-waste (%)				
- Yes	51	44	60	0.778
- Unsure	1.9	0	0	
Intensity of pain (mean)	5	4.9	47	0.913
Muscle soreness in your body from sitting in the same position (%)				
- Yes	68	48	60	0.26
- Unsure	3.8	0	0	
Intensity of muscle soreness (mean)	5.4	4.8	3.4	<b>0.0446</b>