Supplemental tables

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

	Informal		Formal	
Group	Santiago N = 53	Temuco N = 25	Recycling company N = 15	p-value
Demographic				
Sex (%male)	72	92	53	0.021
Age (mean)	47	52	39	0.018
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	
Socioeconomic				
Main sources of income** (%)				
- Electric or electronic waste	85	80	80	0.672
- Other types of waste	55	20	0	0.000
- 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

	Informal		Formal	
Group	Santiago N = 53	Temuco N = 25	Recycling company N = 15	p-value
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	0.002
Current job(s)*				
- Electric or electronic waste recycling	68	32	93	0.000
- Electronics collection	50	24	0	0.001
- Electronics repairer	26	60	0	0.000
- Scrap dealer	40	8	0	0.001
- Retired	7.5	4	0	0.488
- Other	32	32	20	0.648
Role in e-waste recycling (%)				
- Recyclers	55	12	73	0.000
- Collectors	66	16	0	0.000
- Repair shop	26	72	0	0.000
- Raw materials buyer	11	0	20	0.097
Years working with e-waste (mean)	14	16	2.3	0.001
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

Santiago N = 53	-	Informal		Formal		
In general, your overall health is (%):	Group	Santiago		Recycling company	p-value	
- Good	In general, your overall health is (%):					
- Very good		43	52	60	0.701	
- Poor Self-reported health status Self-reported health status Pregnant participants (%) 0 0 0 6.7 0.02 Past smoker* (%) 47 40 33 0.595 Current smoker (%) 38 24 20 0.281 Symptoms experienced in the last 2 weeks Skin rashes (%) Rarely or never 85 80 87 0.842 0.281 Symptoms experienced in the last 2 weeks Skin rashes (%) Rarely or never 85 80 87 0.842 0.281 Symptoms experienced in the last 2 weeks Skin rashes (%) Rarely or never 85 80 87 0.842 0.281 Symptoms experienced in the last 2 weeks Skin rashes (%) Rarely or never 47 52 67 0.674 0.741	- Fair	34	32	27		
- Poor	- Very good	9.4	12	13		
Self-reported health status Pregnant participants (%) 0 0 0 0.7 0.02 Past smoker (*%) 47 40 33 0.595 Current smoker (*%) 38 24 20 0.281 Symptoms experienced in the last 2 weeks		9.4	0	0		
Pregnant participants (%)	- Excellent	3.8	4	0		
Pregnant participants (%)	Self-reported health status					
Past smoker* (%)		0	0	6.7	0.02	
Current smoker (%) Symptoms experienced in the last 2 weeks	Past smoker* (%)	47	40	33	0.595	
Symptoms experienced in the last 2 weeks - Skin rashes (%) Rarely or never 85 80 87 0.842 Occasionally 9.4 12 13 Always or frequently 5.7 8 0 Headache or dizziness (%) Rarely or never 47 52 67 0.674 Occasionally 38 44 27 Always or frequently 13 4 6.7 - Shaking or tremors (%) Rarely or never 93 92 100 0.741 Occasionally 5.7 8 0 Occasionally 1.9 0 0 Always or frequently 1.9 0 0 Blood in urine (%) Rarely or never 94 100 100 Occasionally 3.8 0 0 Always or frequently 1.9 0 0 Braely or never 98 96 100 0.479 Occasionally 0 4 0 Always or frequently 1.9 0 0 Breathing problems (%) Rarely or never 68 84 87 0.288 Occasionally 28 12 6.7 Always or frequently 3.8 4 6.7 Heart beating abnormally (%) Rarely or never 55 88 93 0.008 Occasionally 40 12 6.7 Always or frequently 5.7 0 0 Loose or watery stools (%) Rarely or never 83 88 87 0.408 Occasionally 15 4 6.7 Always or frequently 1.9 8 6.7 Fever (%) Rarely or never 89 88 100 0.625 Occasionally 1.5 4 6.7 Always or frequently 1.9 8 6.7 Fever (%) Rarely or never 89 88 100 0.625 Occasionally 9.4 12 0 Always or frequently 1.9 0 0 Nausea or stomach ache (%) Rarely or never 76 76 80 0.962		38	24	20	0.281	
Rarely or never	Symptoms experienced in the last 2 weeks					
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Always or frequently - Headache or dizziness (%) Rarely or never					0.842	
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- Nausea or stomach ache (%) Rarely or never 76 76 80 0.962						
Rarely or never 76 76 80 0.962						
		76	76	80	0.962	
		21	20			

Always or frequently	3.8	4	6.7	
Sought medical care or treatment [†] (%)	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	0.008
On medication for any of these (%)	65	55	75	0.735
Health impairments/problems that limit work (%)	28	0	0	0.001
Unintentional weight loss in the past year (%)	25	8	40	0.056

^{*}Have you smoked at least 100 cigarettes during your entire life?

†One participant answered "Don't know (2%)

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

	Informal		Formal	
Group	Santiago N = 53	Temuco N = 25	Recycling company N = 15	p-value
Stressors			•	
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	
Veryoften	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 (%)	,	_0	15	
Never	28	40	27	0.619
Almost never	25	32	33	0.019
Sometimes	32	24	40	
Fairly often	11	4	0	
Very often	3.8	0	ő	
- Someone else decide work methods/pace/order (%)	5.0	O .	Ü	
Never/Almost never	83	68	73	0.359
Occasionally	11	16	6.7	0.557
Always or frequently	5.7	16	20	
- Experience violence or harassment at work (%)	3.7	10	20	
Never/Almost never	85	72	93	0.066
Occasionally	9.4	24	0	0.000
Always or frequently	5.7	4	0	
Prefer not to answer	0	0	6.7	
- Work interfere with family responsibilities/leisure tin		U	0.7	
• •		60	72	0.00
Never/Almost never	60 26	60	73	0.88
Occasionally	26	24	20	
Always or frequently	13	16	6.7	
- Income not sufficient to support family (%)	20	64	40	0.020
Never/Almost never	30	64	40	0.029
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

	Formal			
Group	Santiago N = 53	Temuco N = 25	Recycling company N = 15	p-value
Occupational noise exposure				
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	0.004
Experienced tinnitus after spending time	e in loud nois	e (%)		
- 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

	Informal		Formal	
Group	Santiago N = 53	Temuco N = 25	Recycling company N = 15	p-value
Injuries in e-waste recycling work in the past 6 months	2.2	5.4	1.7	0.131
(mean)		5.1	1.7	0.151
For the worst injury during electric or electronic waster	ecycling work:			
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	0.022
- 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	0.037
- Sprains/strains	1.9	8	6.7	0.41
- Burns/scalds	0	12	0	0.015
- Fractures	1.9	0	0	0.683
- Other	13	28	27	0.224
Medical care received (%)				
- Self-administered first aid	60	23	9.1	0.007
- No medical care	19	46	27	
- Treatment at hospital/clinic	11	9.1	36	
- Other	11	23	27	
Participants hospitalized (%)	0.0	0.0	0.0	0.636
- Missed work (%)				
- 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 (%	5)			
- Yes	70	56	27	0.031
- Unsure	1.9	0	0	
Job task that you have experienced more injuries when pe			-	
- Yes	55 55	56	40	0.417
- Unsure	5.7	0	0	2
Instructions/training prior to injury (%)	5.,	J	v	
industrialist administ prior to injury (70)				

- Yes	22	14	9.1	0.51
- Don't know	5.4	0	0	
Use of safety equipment at work (%)				
- Leather/rubber globes	60	32	87	0.002
- Rubber-soled boots or shoes	32	60	93	0
- 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	e position (%)			
- Yes	68	48	60	0.26
- Unsure	3.8	0	0	
Intensity of muscle soreness (mean)	5.4	4.8	3.4	0.0446