

Supplementary material

Table S1. Sectors of economic activity used in the sixth EWCS*	
Economic Sector*	Corresponding NACE Rev.2 sectors
Agriculture	A. Agriculture, forestry and fishing
Industry	B. Mining and quarrying C. Manufacturing D. Electricity, gas, steam and air conditioning supply E. Water supply; sewerage, waste management and remediation activities
Construction	F. Construction
Commerce and hospitality	G. Wholesale and retail trade; repair of motor vehicles and motorcycles I. Accommodation and food service activities
Transport	H. Transportation and storage
Financial services	K. Financial and insurance activities L. Real estate activities
Public administration	O. Public administration and defence; compulsory social security
Education	P. Education
Health	Q. Human health and social work activities
Other services	J. Information and communication M. Professional, scientific and technical activities N. Administrative and support service activities R. Arts, entertainment and recreation S. Arts, entertainment and recreation T. Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use U. Activities of extraterritorial organizations and bodies.

* Eurofund (European Foundation for the Improvement of Living and Working Conditions) (2017). Sixth European Working Conditions Survey – Overview report (2017 update). Luxembourg, Publications Office of the European Union.

Table S2. Capture-recapture estimates of underreporting non-fatal occupational injuries by injury organizational factors in Sweden,2013 *

Variables	Overlap	ISA only	AFA only	Total observed †	Total estimated ‡ (95%CI)	% Underreported (95%CI)	%captured by ISA	%captured by AFA
<i>Proportion of women in organization</i>								
Male dominated (female <40%)	13060	12601	4779	30440	35051 (34872-35230)	13,2 (12,8-13,5)	73,2	50,9
Gender integrated (female 40-60%)	5085	4430	1317	10832	11979 (11902-12057)	9,6 (9,1-10,1)	79,4	53,4
Female dominated (female >60%)	12727	24018	5310	42055	52076 (51703-52449)	19,2 (18,8-19,7)	70,6	34,6
<i>Proportion of young workers at the organization (<30 years old)</i>								
≤10%	3636	4757	1244	9637	11265 (11147-11382)	14,4 (13,7-15,2)	74,5	43,3
>10-<30%	22966	31337	7979	62282	73169 (72850-73488)	14,9 (14,6-15,2)	74,2	42,3
≥30%	4270	4955	2183	11408	13941 (13780-14102)	18,2 (17,4-18,9)	66,2	46,3
<i>Proportion of immigrant workers in organization</i>								
<10%	14506	14356	4846	33708	38504 (38326-38681)	12,5 (12,1-12,8)	75,0	50,3
10-20	10324	16624	4109	31057	37673 (37390-37957)	17,6 (17,1-18,1)	71,5	38,3
>20%	6042	10069	2451	18562	22647 (22431-22862)	18,0 (17,4-18,7)	71,1	37,5
<i>Proportion of highly educated workers at the organization (Higher level education (>13 years))</i>								
<20%	7611	7260	3394	18265	21502 (21344-21661)	15,1 (14,5-15,6)	69,2	51,2
≥20-40%	8730	10128	2973	21831	25280 (25109-25451)	13,6 (13,1-14,1)	74,6	46,3
≥40-60%	9876	15865	3672	29413	35312 (35,75-35549)	16,7 (16,2-17,2)	72,9	38,4
≥60%	4655	7796	1367	13818	16107 (15944-16271)	14,2 (13,5-15,0)	77,3	37,4
<i>Ownership Sector</i>								
Public	14726	16886	6282	45433	53101 (52827-53375)	14,4 (14,1-14,8)	75,9	40,1
Private	16146	24163	5124	37894	45097 (44842-45353)	16,0 (15,6-16,4)	70,1	46,6
<i>Employer size §</i>								
Medium-small (50-99)	2046	2069	1141	5256	6410 (6308-6511)	18,0 (16,9-19,1)	64,2	49,7
Medium-large (100-249)	2693	2830	1321	6844	8232 (8122-8342)	16,9 (15,9-17,8)	67,1	48,8
Large (≥250)	9987	11987	3820	25794	30379 (30185-30573)	15,1 (14,6-15,6)	72,3	45,4
<i>Economic activity</i>								
Agriculture	44	40	31	115	143 (126-161)	19,7 (12,0-27,4)	58,7	52,4
Other services	2608	3710	1277	7595	9412 (9274-9550)	19,3 (18,3-20,3)	67,1	41,3
Commerce and hospitality	2255	2330	1353	5938	7336 (7221-7451)	19,1 (18,0-20,1)	62,5	49,2
Education	3125	4073	1509	8707	10674 (10533-10815)	18,4 (17,5-19,3)	67,4	43,3
Health	6932	16326	2455	25713	31495 (31221-31769)	18,4 (17,8-18,9)	73,8	29,8
Construction	1875	1427	927	4229	4934 (4868-5001)	14,3 (13,3-15,3)	66,9	56,8

Financial services	514	435	206	1155	1329 (1295-1364)	13,1 (11,2-15,1)	71,4	54,2
Transport	2630	2283	942	5855	6673 (6600-6746)	12,3 (11,4-13,1)	73,6	53,5
Industry	7228	7284	2055	16567	18638 (18524-18752)	11,1 (10,6-11,6)	77,9	49,8
Public administration	3478	2807	587	6872	7346 (7299-7392)	6,5 (5,9-7,0)	85,6	55,3
Missing	183	334	64	581	-	-	-	-

* Including working population in the entire public sector and medium and large companies in the private sector (≥50 employees).
† Total observed corresponds to the sum of occupational injuries captured by ISA only, AFA only and the overlap.
‡ Total estimated is the sum of the injuries observed plus those not captured by any of the sources.
§ Employer size available only for private companies
ISA= the Information System on occupational injuries. AFA= AFA Insurance.

Table S3. Capture-recapture estimates of underreported non-fatal occupational injuries in Sweden, stratified by severity levels, 2013. *

	No healthcare contact			Only out-patient			Hospitalized		
	Total observed †	Total estimated ‡ (95%CI)	% Underreported (95%CI)	Total observed †	Total estimated ‡ (95%CI)	% Underreported (95%CI)	Total observed †	Total estimated‡ (95%CI)	% Underreported (95%CI)
Total	69663	83991 (83607-84376)	17,1 (16,7-17,4)	12295	13409 (13344-13475)	8,3 (7,9-8,7)	1369	1422 (1412-1432)	3,7 (3,0-4,4)
<i>Proportion of women in organization</i>									
Male dominated (female <40%)	23403	27676 (27487-27864)	15,4 (15,0-15,9)	6264	6778 (6738-6818)	7,6 (7,1-8,1)	773	793 (788-799)	2,3 (1,9-3,3)
Gender integrated (female 40-60%)	8917	9942 (9865-10018)	10,3 (9,7-10,9)	1743	1855 (1837-1873)	6,0 (5,2-6,9)	172	184 (178-190)	6,5 (3,6-9,4)
Female dominated (female >60%)	37343	46866 (46491-47241)	20,3 (19,8-20,8)	4288	4794 (4747-4840)	10,5 (9,8-11,3)	424	448 (440-456)	5,3 (3,7-6,9)
<i>Proportion of young workers at the organization (<30 years old)</i>									
≤10%	7868	9388 (9260-9517)	16,2 (15,2-17,2)	1549	1682 (1661-1704)	7,9 (6,8-9,0)	220	229 (224-233)	3,7 (2,0-5,5)
>10-<30%	52846	63192 (62859-63525)	16,4 (16,0-16,7)	8496	9217 (9167-9268)	7,8 (7,4-8,3)	940	970 (962-977)	3,1 (2,3-3,8)
≥30%	8949	11298 (11126-11470)	20,8 (19,8-21,7)	2250	2516 (2482-2550)	10,6 (9,5-11,7)	209	226 (218-234)	7,5 (4,6-10,4)
<i>Proportion of immigrant workers in organization</i>									
<10%	27538	31902 (31716-32088)	13,7 (13,2-14,1)	5510	5961 (5922-6000)	7,6 (7,0-8,1)	660	681 (675-688)	3,1 (2,3-4,0)
10-20	26481	32907 (32593-33220)	19,5 (18,9-20,1)	4139	4534 (4493-4575)	8,7 (8,0-9,5)	437	456 (450-463)	4,2 (2,9-5,5)
>20%	15644	19575 (19323-19827)	20,1 (19,3-20,9)	2646	2917 (2884-2950)	9,3 (8,4-10,2)	272	285 (279-290)	4,5 (2,8-6,2)
<i>Proportion of highly educated workers at the organization (Higher level education (>13 years)</i>									
<20%	13650	16750 (16570-16931)	18,5 (17,8-19,2)	4113	4476 (4440-4511)	8,1 (7,4-8,8)	502	514 (510-518)	2,3 (1,5-3,1)
≥20-40%	18192	21409 (21242-21577)	15,0 (14,5-15,6)	3275	3543 (3513-3572)	7,6 (6,8-8,3)	364	376 (371-381)	3,3 (2,1-4,5)
≥40-60%	25882	31492 (31237-31748)	17,8 (17,3-18,4)	3177	3492 (3458-3527)	9,0 (8,2-9,8)	354	371 (365-377)	4,7 (3,2-6,1)

≥60%	11939	14061 (13910-14212)	15,1 (14,3-15,9)	1730	1888 (1862-1913)	8,4 (7,2-9,5)	149	166 (157-175)	10,1 (5,7-14,5)
<i>Ownership Sector</i>									
Public	39970	47200 (46893-47507)	15,3 (14,9-15,8)	4933	5359 (5318-5399)	7,9 (7,3-8,6)	530	557 (549-564)	4,8 (3,5-6,0)
Private	29693	36571 (36306-36836)	18,8 (18,3-19,3)	7362	8049 (8000-8098)	8,5 (8,0-9,0)	839	866 (859-873)	3,1 (2,4-3,9)
<i>Employer size §</i>									
Medium-small (50-99)	3725	4849 (4737-4961)	23,2 (21,8-24,5)	1365	1509 (1483-1534)	9,5 (8,2-10,9)	166	174 (169-179)	4,8 (2,2-7,4)
Medium-large (100-249)	5088	6401 (6277-6525)	20,5 (19,3-21,7)	1554	1724 (1697-1752)	9,9 (8,6-11,2)	202	207 (205-210)	2,6 (1,3-4,0)
Large (≥250)	20880	25274 (25062-25486)	17,4 (16,8-18,0)	4443	4819 (4783-4855)	7,8 (7,2-8,4)	471	485 (480-490)	2,9 (2,0-3,8)
<i>Economic activity</i>									
Agriculture	81	104 (87-121)	22,1 (12,6-31,7)	30	NE	NE	4	NE	NE
Other services	6000	7754 (7585-7922)	22,6 (21,3-23,9)	1433	1593 (1566-1620)	10,0 (8,7-11,4)	162	172 (167-177)	5,7
Commerce and hospitality	4552	5805 (681-5930)	21,6 (20,3-22,9)	1269	1448 (1417-1478)	12,3 (10,7-14,0)	117	126 (120-131)	7,1 (3,4-10,9)
Education	7318	9190 (9040-9341)	20,4 (19,3-21,4)	1245	1373 (1349-1397)	9,3 (7,9-10,8)	144	152 (147-156)	5,0 (2,4-7,7)
Health	23712	29243 (28929-29557)	18,9 (18,2-19,6)	1833	2054 (2022-2085)	10,8 (9,5-12,0)	168	179 (173-185)	6,0 (3,1-8,8)
Construction	2836	3489 (3410-3569)	18,7 (17,2-20,2)	1247	1362 (1342-1382)	8,4 (7,2-9,7)	146	150 (147-152)	2,5 (0,9-4,1)
Financial services	902	1051 (1017-1086)	14,2 (11,8-16,6)	222	249 (238-259)	10,7 (7,2-14,1)	31	NE	NE
Transport	4720	5455 (5386-5525)	13,5 (12,5-14,4)	1014	1104 (1086-1121)	8,1 (6,8-9,5)	121	126 (123-130)	4,3 (1,8-6,8)
Industry	13310	15304 (15173-15435)	13,0 (12,4-13,7)	2898	3067 (3046-3089)	5,5 (4,9-6,1)	359	363 (361-365)	1,2 (0,6-1,8)
Public administration	5737	6156 (6109-6203)	6,8 (6,1-7,5)	1028	1074 (1063-1084)	4,3 (3,3-5,2)	107	115 (110-120)	6,8 (3,3-10,4)
Missing	495	-	-	76	-	-	10	-	-
* Including working population in the entire public sector and medium and large companies in the private sector (≥50 employees).									
† Total observed corresponds to the sum of occupational injuries captured by ISA only, AFA only and the overlap.									
‡ Total estimated is the sum of the injuries observed plus those not captured by any of the sources.									
§ Employer size available only for private companies									
NE= No estimation due to low numbers.									

Table S4. Adjusted capture-recapture estimates of underreporting non-fatal occupational injuries by economic activity in Sweden, 2013*									
	No healthcare contact			Outpatient			Hospitalized		
	Total observed †	Total estimated ‡	% Underreported	Total observed †	Total estimated ‡	% Underreported	Total observed †	Total estimated ‡	% Underreported
<i>Economic activity</i>									
Agriculture	81	NE	NE	30	NE	NE	4	NE	NE
Other services	6000	7775 (7601-7949)	22,7 (21,4-24,0)	1433	1592 (1565-1619)	10,0 (8,6-11,4)	162	172 (166-178)	5,7 (2,9-8,5)
Commerce and hospitality	4552	5811 (5684-5939)	21,5 (20,2-22,8)	1269	1447 (1417-1478)	12,3 (10,7-13,9)	117	126 (112-140)	7,1 (3,2-11,0)
Education	7318	9185 (9027-9343)	20,3 (19,2-21,3)	1245	1373 (1348-1398)	9,3 (7,8-10,8)	144	152 (147-157)	5,1 (2,3-7,9)
Health	23712	29298 (28984-29613)	19,0 (18,3-19,7)	1833	2053 (2021-2085)	10,6 (9,3-11,9)	168	178 (172-184)	5,6 (2,8-8,4)
Construction	2836	3492 (3409-3575)	18,6 (17,1-20,1)	1247	1362 (1342-1382)	8,4 (7,2-9,7)	146	150 (147-152)	2,5 (0,8-4,0)
Financial services	902	1052 (1016-1089)	14,1 (11,7-16,6)	222	247 (236-257)	9,9 (6,4-13,4)	31	NE	NE
Transport	4720	5475 (5393-5556)	13,6 (12,6-14,6)	1014	1103 (1086-1121)	8,2 (6,8-9,4)	121	126 (122-130)	4,0 (1,5-6,5)
Industry	13310	15354 (15206-15503)	13,2 (12,5-13,9)	2898	3068 (3046-3089)	5,5 (4,9-6,1)	359	363 (361-366)	1,2 (0,6-1,8)
Public administration	5737	6439 (6332-6545)	9,9 (8,9-10,9)	1028	1081 (1065-1098)	4,7 (3,6-5,9)	107	116 (107-125)	7,3 (3,0-11,6)
Missing	495	-	-	76	-	-	10	-	-
<p>* Including all working population in the entire public sector and medium and large companies in the private sector (≥50 employees). Adjusted by proportion of women, proportion of young employees (<30 years old) and proportion of immigrants at the organization level. Estimates for agriculture could not be obtained in adjusted models due to small numbers.</p> <p>† Total observed corresponds to the sum of occupational injuries captured by ISA only, AFA only and the overlap.</p> <p>‡ Total estimated is the sum of the injuries observed plus those not captured by any of the sources. Adjusted by proportion of women, proportion of young workers (<30 years old) and proportion of immigrants in the organization.</p> <p>NE= No estimation due to low numbers.</p>									

Table S5: Distribution of non-fatal occupational injuries by company/organization factors sorted by data source, Sweden, 2013.*

	Total observed[†]	ISA all	Present in ISA	AFA all	Present in AFA
	N (%)	N (%)	%	N (%)	%
TOTAL	99614	83074	83,4	52814	53,0
<i>Proportion of women in organization</i>					
Male dominated (female <40%)	42344	33780	79,8	25813	61,0
Gender neutral (female 40-60%)	12397	10592	85,4	7333	59,2
Female dominated (female >60%)	44873	38702	86,3	19668	43,8
<i>Proportion of young workers at the organization (<30 years old)</i>					
≤10%	13691	11198	81,8	7438	54,3
>10-<30%	68153	58447	85,8	34776	51,0
≥30%	17770	13429	75,6	10600	59,7
<i>Proportion of immigrant workers in organization</i>					
<10%	43623	35607	81,6	25820	59,2
10-20	34118	29134	85,4	16357	47,9
>20%	21873	18333	83,8	10637	48,6
<i>Proportion with higher level education (>13 years) in organization</i>					
<20%	29292	22285	76,1	18452	63,0
≥20-40%	24839	20989	84,5	13556	54,6
≥40-60%	30580	26572	86,9	14217	46,5
≥60%	14903	13228	88,8	6589	44,2
<i>Ownership Sector</i>					
Public ‡	45433	40309	88,7	21270	46,8
Private	54181	42765	78,9	31544	58,2
<i>Employer size §</i>					
Micro (1-9)	5540	3545	64,0	3664	66,1
Small (10-49)	10 747	7608	70,8	6872	63,9
Medium-small (50-99)	5256	4115	78,3	3187	60,6
Medium-large (100-249)	6844	5523	80,7	4014	58,6
Large (≥250)	25794	21974	85,2	13807	43,8
<i>Economic Activity</i>					
Agriculture	735	531	72,2	428	58,2
Industry	19696	16807	85,3	11382	57,8
Construction	8434	6099	72,3	5753	68,2
Commerce and hospitality	8937	6457	72,3	5611	62,8
Transport	7212	5803	80,5	4476	62,1
Financial services	1438	1129	78,5	908	63,1
Public administration	6875	6288	91,5	4068	59,2
Education	9199	7553	82,1	4918	53,5
Health	26368	23780	90,2	9671	36,7
Other services	10061	8058	80,1	5307	52,8
Missing	659	569	86,3	292	44,3
*Includes OI among all public- and private-sector organizations in Sweden for the year 2013. Injuries missing information on ownership sector were early removed (3,8% for the total OI)					
† Total observed corresponds to the sum of occupational injuries captured by ISA only, AFA only and the overlap. A total of 83 074 and 52 814 non-fatal OI were identified in ISA and AFA, respectively. After the merge on +/- 7 days, a dataset with 99 614 distinct OI was created.					
‡ Public-sector is composed of municipal and government administration; municipal- and government-owned companies and organizations; and other public institutions.					
§ Number of employees is provided only for companies in the private sector.					
ISA= the Information System on occupational injuries. AFA= AFA Insurance.					