

Reference	Study Design	Population	Out-come	Exposure	Results				Comments
Al-Thani, 2020	Cross-sectional	Study region: Qatar	Infection (IgM/ IgG, PCR)	Investigated occupation: Diverse (n=9 occupational sectors)		Per- sons tested	Positive Result	- PCR and IgM/IgG tests were able to detect both previous and current infections - only men were interviewed	
		administra- tion work- ers			82	36			
		professional workers			137	36			
		food and beverage workers			93	26			
		retail work- ers			171	67			
				Assessment: Interview	transport workers	435	227		
		cleaning workers			105	55			
		technical and con- struction workers			1329	862			
		security workers			61	36			

Appendix B

					Other work- ers	178	64		
Billingsley, 2022	Cohort	Study region: Sweden	Mortality (ICD-10: U07.1, U07.2, B3.42)	Investigated occupation: diverse (n=9 occupational sectors)			Exposed	Deaths	- Study with nationwide register data - Occupations are based on December 2018 data, which may not reflect job changes or exits from the labour market during the pandemic. - The outcome is mortality, which may be influenced by other factors (e.g., pre-existing conditions)
		Sample population: The study determined COVID-19-related mortality as the outcome using Sweden's National Cause of Death Register. Deaths were classified as COVID-19-related based on ICD-10 codes (U07.1, U07.2, and B3.42). The data included both deaths where COVID-19 was listed as the underlying cause and deaths where it was a contributing cause.			care work- ers	221, 222, 223, 532, 533, 534; excluding 2222, 2225, 2233, 2234	2.824.735	265	
					taxi & bus drivers	8321, 8331	601.616	37	
					meat packers	7611	38.046	25	
					teach- ers	234, 5311	3.409	< 5	
		Sample size: 4 620 395			service sector	522, 941, 523	310.084	16	
		Age: MW = 43.2			police men, secu- rity guards	5412, 5413, 3360	347.283	22	
					postal work- ers, de- livery	4420, 8329	45.004	< 5	
		Time of outcome:		Time of occupation assessment:					

Appendix B

		03/2020 – 02/2021		12/18	clean-ers	9111	27.722	< 5	
		Response: Register-Study			IT, eco-nomics, or ad-min (skilled)	241, 242, 243, 251	86.414	14	
Campbell	Cross-sectional	Studio region: Canada	Infection (PCR test)	Investigated occupations: Diverse (n=4 occupational sectors)	Occupation	N	Infected		- Only essential businesses willing to participate were included. - High response among participants, but only 19% of the requested businesses - Repeat tests in companies if 2 or more people were positive at this company - High participation was attributed to on-site sampling
		Sample population: The people examined were essential workers from 69 non-healthcare businesses.			other	607	1		
		Sample size: 6.607		Assessment: Study was conducted at workplace	manufacturing / supplier	1225	43		
		Age: Median: 48 Range: 37-57			meat processing	183	6		
		Time of outcome: 01/21-03/21		Time of occupation assessment: 01/21-03/21	childcare	113	3		
		Response: 90,6%							
Cummings, 2021	Cohort	Study region: USA	Mortality (death certificates)	Investigated occupation: diverse (n=23 occupational sectors)		N	Infected		- It was a register-based study, which means it includes all COVID-19 deaths in California for the specified age group.
		Sample population: The sample population consisted of			overall	20756667	6227		

Appendix B

		working-age adults (18–64 years old) in California who died in 2020.			farming, fishing & forestry	332051	259	- The outcome is mortality, which may be influenced by other factors (e.g., pre-existing conditions)
		Sample size: 6 607		Assessment: 2010 Census code	material moving	506427	394	
		Age: Mean 50.7			construction and extrac- tion	1073718	670	
		Time of outcome: 01/2020 to 12/2020		Time of occupation assessment: 2020 (6 months before death)	production	1104651	665	
					transporta- tion	867133	496	
		Response: Register			installation, mainte- nance & re- pair	576087	318	
					building & grounds cleaning & mainte- nance	982942	461	
					food prepa- ration & serving re- lated	776087	357	
					protective service	415909	183	
Della Valle, 2021	Cohort	Study region:		Investigated occupation:				

Appendix B

		Italy Sample population: Employees from facilities in the Lombardy region Sample size: 2 255 Age: MW (SD) 44.5 (+- 9.71) Time of outcome: 05/2020 to 10/2020 Response: 75.8	Infection (IgG, IgM)	diverse (n= 3 occupational sectors)	<table><tr><td>Description</td><td>Total</td><td>IgG/ IgM antibodies</td></tr><tr><td>office worker</td><td>993</td><td>36</td></tr><tr><td>Police</td><td>1.213</td><td>67</td></tr><tr><td>HCW</td><td>49</td><td>6</td></tr></table>	Description	Total	IgG/ IgM antibodies	office worker	993	36	Police	1.213	67	HCW	49	6	- Even if a lot covariates were available no adjusted model was calculated. - Office worker were not further distinguished.						
Description	Total	IgG/ IgM antibodies																						
office worker	993	36																						
Police	1.213	67																						
HCW	49	6																						
Diaz-Salazar, 2021	Cross-sectional	Study region: Mexico Sample population: City government Employees (Ciudad Guadalupe, NL, Mexico) voluntarily participated in a survey. Sample size: 3 268 Age: Md [IQR]=40 [31-49]	Infection (IgG, IgM)	Investigated occupation: diverse (n=5 occupational sectors) Assessment: register	<table><tr><td>occupation</td><td>total</td><td>Positive IgG/ IgM</td></tr><tr><td>office / management</td><td>696</td><td>36</td></tr><tr><td>police, firefighters, public safety</td><td>1.051</td><td>69</td></tr><tr><td>maintenance / janitors</td><td>608</td><td>25</td></tr><tr><td>HCW</td><td>163</td><td>8</td></tr><tr><td>other</td><td>750</td><td>55</td></tr></table>	occupation	total	Positive IgG/ IgM	office / management	696	36	police, firefighters, public safety	1.051	69	maintenance / janitors	608	25	HCW	163	8	other	750	55	- High response - Participants were limited to government employees. - Covers only one month
occupation	total	Positive IgG/ IgM																						
office / management	696	36																						
police, firefighters, public safety	1.051	69																						
maintenance / janitors	608	25																						
HCW	163	8																						
other	750	55																						

Appendix B

		Time of outcome: 07/2020		Time of occupation assessment: 07/2020				
		Response: 77.4						
Finkenzeller, 2020	Cross-sectional	Study region: Deutschland	Infection (IgG, IgM)	Investigated occupation: diverse (n=13 occupational sectors)		Total	AB +	- Excluded due to overlapping outcomes
		Sample population: Study included 2 groups: a) Healthcare workers b) non-medical workers. Persons in b) were from large regional company.			KKH - Ärztliches Personal	221	30	
					KKH - Funktionsdienste	298	38	
					KKH - Pflegepersonal	710	177	
					KKH - Reinigungspersonal	46	11	
					KKH - Technikpersonal	63	4	
					KKH - Verwaltung	223	17	
					UTN - Fertigung	196	5	
		Sample size: 2 867	Assessment: at work	UTN - Home-Office	69	7		
		Age: MW (classes) = 42		UTN - Küche	52	1		
		Time of outcome: 07/2020	Time of occupation assessment: 07/2020	UTN - Service Baustelle	112	6		
				UTN - Service In House	404	17		
				UTN - Verwaltung	196	8		
		Response: 67.7		KKH - Ärztliches Personal	221	30		

Appendix B

Fogh, 2021	Cohort	Study region: Denmark	Infection (IgG, IgM)	Investigated occupation: diverse (n= 6 occupational sectors)	Work type	Sero neg.	Sero pos.	- Low response - Large sample size
		office work			83 401	538		
		other			44 755	370		
		healthcare sector			21 863	287		
		tradesman			20 653	154		
		school / other education			23 773	199		
		shop work			9 103	78		
		nursing home		5 768	57			
		home care		3 827	52			
						Assessment: web-based-questionnaire		
Sample size: 318 552								
Age: Median 55								
		Time of outcome: 10/2020		Time of occupation assessment: 09/2020				
Response: 24,5								

Hawkins, 2021	Cohort	Study region: USA	Mortality (death certificates)	Investigated occupation: diverse (n= 11 occupational category)		N	Age-adjusted mortality rate	- Inclusion of race and ethnic - Result adjusted for these co-variables could not be used (unsuitable control group in the adjusted model)
		Sample population: The study focused on working-age individuals (16–64 years) in						

Appendix B

		Massachusetts who were part of the civilian workforce.			office & administrative support	398305	11.8	- Occupation was “usual occupation”
		Sample size: 3 381 336		Assessment: death certificate: "usual work"	healthcare support	93504	44.1	
		Age: 56,2			transportation & material moving	155767	37.2	
		Time of outcome: 03/2020 to 07/2020		Time of occupation assessment: 3/2020 to 07/2020	food preparing & serving related	185416	31.6	
					building & grounds cleaning & maintenance	117520	31.1	
		production			125614	29.6		
		installation, maintenance & repair			72219	27.2		
		construction and extraction			148782	28.3		
		protective service			64029	25.4		
		Response: register						

Appendix B

					personal care & ser- vice	138887	23.6	
					arts, design, entertain- ment & me- dia	75878	23.5	
					community & social ser- vices	71053	18.7	
					life, physical & social sci- ence	65959	14.3	
					sales and re- lated	300503	13.9	
					healthcare practitioners & technical	243593	11.2	
					architecture & engineer- ing	78091	13.7	
					business and financial op- erations	201861	8.7	
					legal	43419	8.2	

Appendix B

					computer & mathematical	158040	5.7		
					management	416461	5.4		
					education, training & library	248337	4.3		
House, 2021	Retrospective Cohort	Study region: USA Sample population: Hospitals from the RECOVER study that were located in Iowa. Sample size: 582 Age: MD [IQR]=42 [29; 55] Time of outcome: 03/2020 to 05/2020 Response: -	Infection, admission to ICU (any test result)	Investigated occupation: meat packers Assessment: hospital documentation Time of occupation assessment: 03/2020 to 05/2020	occupation Other Meat packing	total 533 49	In-fected 64 36	Adj. RR Ref. 2.37 [1.59; 3.53]	- data were from an emergency department - persons had to have typical COVID-19 symptoms (e.g., cough) - concentration on the occupation meat packers
IIAC,	Cohort	Study region:		Investigated occupation:					

Appendix B

2021		Great Britain	Mortality (death records: U07.1 and U07.2)	diverse (n= 88 occupational category)			
		Sample population: England & Wales			f - managers & directors in retail & wholesale	26.7 [16.7, 40.2]	
		Sample size: 7 961			f - residential, day & domiciliary care managers & proprietors	31.5 [17.9, 51.3]	
		Age: Not specified			f - shop keepers & proprietors: wholesale & retail	36 [18, 63.8]	
		Time of outcome: 03/2020 to 12/2020			f - nurses	24.5 [19.7, 29.4]	
		Response: 100			f - secondary education teaching professionals	21.2 [12.4, 33.2]	
					f - primary & nursery education teaching professionals	10 [5.4, 16.5]	
					f - senior professionals of educational establishments	25.2 [10.7, 47.6]	
					f - social workers	32.4 [20.7, 48.3]	
					f - national government administrative occupations	27.9 [18.1, 41.2]	
					f - local government administrative occupations	10.5 [4.9, 19.5]	
					f - book-keepers, payroll managers & wages clerks	11.9 [7.7, 17.6]	

Appendix B

					f - bank & post office clerks	24.1 [13.4, 39.9]	
					f - other administrative occupations n.e.c.	12.3 [9.3, 15.9]	
					f - office managers	8.7 [4.2, 15.9]	
					f - personal assistants and other secretaries	19.1 [12.7, 27.4]	
					f - receptionists	9.5 [5.3, 15.6]	
					f - chefs	40.2 [20.5, 70.0]	
					f - nursery nurses & assistants	11.8 [5.3, 22.0]	
					f - childminders & related occupations	27.8 [15.9, 44.8]	
					f - teaching assistants	15 [10.2, 21.0]	
					f - nursing auxiliaries & assistants	25.3 [18.9, 33.1]	
					f - house-parents & residential wardens	37.4 [18.8, 65.7]	
					f - care workers and home carers	47.1 [44.1, 53.1]	
					f - hairdressers and barbers	44 [24.2, 72.2]	

Appendix B

					f - housekeepers & related occupations	26.4 [14, 45]	
					f - cleaning & housekeeping managers & supervisors	26.1 [12.8, 47.1]	
					f - sales and retail assistants	26.9 [21.8, 31.9]	
					f - retail cashiers & check-out operators	15.7 [8.4, 26.4]	
					f - customer service occupations n.e.c.	12.6 [7, 20.8]	
					f - food, drink and tobacco process operatives	28.2 [14, 50.6]	
					f - sewing machinists	64.8 [34.6, 110.1]	
					f - cleaners & domestics	21.5 [17.4, 26.3]	
					f - school midday & crossing patrol occupations	19.2 [11.3, 30.3]	
					f - kitchen & catering assistants	18.8 [13.1, 26.1]	
					m - production managers and directors in manufacturing	16.3 [11.7, 22.1]	
					m - production managers and directors in construction	20.7 [14.1, 29.4]	

Appendix B

					m - financial managers and directors	10 [5.7, 16.2]	
					m - marketing and sales directors	8.2 [4.2, 14.1]	
					m - functional managers and directors n.e.c.	16.7 [7.8, 31.1]	
					m - managers and directors in transport and distribution	51.6 [33.8, 74.9]	
					m - managers and directors in storage and warehousing	49.9 [30.1, 76.7]	
					m - managers and directors in retail and wholesale	28.3 [20, 38.8]	
					m - restaurant & caring establishment: managers & proprietors	119.3 [71.2, 183.3]	
					m - publicans & managers of licensed premises	219.9 [124.7, 354.2]	
					m - property, housing and estate managers	31.1 [20.4, 45.4]	
					m - shop keepers & proprietors: wholesale & retail	69 [51.8, 90.1]	

Appendix B

					m - managers and proprietors in other services	40.6 [28.9, 55.2]	
					n.e.c.		
					m - IT specialist managers	21.9 [12, 35.7]	
					m - programmers and software development professionals	8 [3.9, 14]	
					m - information technology and telecommunication professionals n.e.c.	20 [11.9, 31.1]	
					m - medical practitioners	27.6 [18.6, 39.5]	
					m - nurses	79.1 [57.4, 106.1]	
					m - higher education teaching professionals	11.5 [5.2, 21.7]	
					m - further education teaching professionals	24.7 [11.1, 46.6]	
					m - secondary education teaching professionals	39.2 [24.3, 58.6]	
					m - chartered and certified accountants	21.9 [13, 34.4]	
					m - business and financial project management professionals	20.1 [10.7, 33.7]	
					m - chartered surveyors	21.6 [10.3, 39.9]	

Appendix B

					m - IT operations technicians	32.2 [15.3, 58.3]	
					m - police officers (sergeant and below)	194.1 [93.3, 336.3]	
					m - protective service associate professionals n.e.c.	39.3 [20.1, 68.3]	
					m - photographers, audio-visual and broadcasting equipment operators	31.9 [15.6, 57.1]	
					m - business and related associate professional n.e.c.	20.3 [9.7, 37]	
					m - business sales executives	47.2 [29.8, 70.6]	
					m - sales accounts and business development managers	15.8 [10.4, 22.9]	
					m - national government administrative occupations	58.5 [38.8, 84.7]	
					m - local government administrative occupations	72.1 [44.8, 109.4]	
					m - book-keepers, payroll managers and wages clerks	48.4 [33.7, 67.2]	

Appendix B

					m - bank & post office clerks	105.5 [49.6, 193.7]	
					m - transport and distribution clerks and assistants	51.4 [27.2, 87.1]	
					m - other administrative occupations n.e.c.	26.8 [17.4, 39.4]	
					m - farmers	17 [8.8, 29.4]	
					m - gardeners and landscape gardeners	22.2 [14.6, 32.3]	
					m - welding trades	54.7 [33.1, 83.5]	
					m - metal working production and maintenance fitters	36.4 [27.8, 46.8]	
					m - vehicle technicians, mechanics, electricians	58 [42.4, 77.4]	
					m - aircraft maintenance & related trades	70.8 [34.4, 128.2]	
					m - electricians and electrical fitters	33.3 [25, 43.5]	
					m - telecommunications engineers	56.4 [30.8, 93.7]	
					m - IT engineers	51.9 [25.9, 92]	
					m - electrical and electronic trades n.e.c.	38 [23.6, 57.9]	

Appendix B

					m - bricklayers and masons	32.4 [18.9, 51.6]	
					m - roofers, roof tilers & slaters	100.5 [55.8, 163.6]	
					m - plumbers and heating and ventilating engineers	24.3 [16.3, 34.6]	
					m - carpenters and joiners	43.1 [32.8, 55.6]	
					m - construction and building trades n.e.c.	40.1 [32, 49.7]	
					m - plasterers	38.5 [18.9, 69.2]	
					m - painters and decorators	47 [34.9, 61.8]	
					m - butchers	207 [112.2, 346.8]	
					m - bakers & flour confectioners	715.6 [331.1282.8]	
					m - chefs	103.1 [79.9, 130.5]	
					m - catering & bar managers	86.8 [41.6, 155.4]	
					m - nursing auxiliaries & assistants	87.2 [63.3, 117.1]	
					m - ambulance staff (excl. Paramedics)	95.2 [38.7, 178.5]	

Appendix B

					m - care workers and home carers	109.9 [88.6, 131.3]	
					m - hairdressers & barbers	112.5 [49.6, 209.8]	
					m - caretakers	30.1 [19.4, 44.4]	
					m - sales & retail assistants	56.5 [43.7, 71.9]	
					m - retail cashiers & check out operators	61.6 [27.9, 114.7]	
					m - vehicle and parts salespersons and advisors	42.1 [20.3, 76.6]	
					m - customer service occupations n.e.c.	41.8 [23.2, 68.8]	
					m - food, drink and tobacco process operatives	103.7 [77.2, 136.4]	
					m - metal working machine operators	106.1 [74.5, 146.0]	
					m - routine inspectors and testers	29 [15.8, 48.7]	
					m - construction operatives n.e.c.	23.7 [14.6, 36.3]	
					m - large goods vehicle drivers	39.7 [32.4, 47.1]	
					m - van drivers	39.7 [32.1, 48.5]	

Appendix B

					m - bus and coach drivers	70.3 [55.3, 88]	
					m - Taxi & cab drivers, chauffeurs	101.4 [87.5, 115.2]	
					m - fork-lift truck drivers	34.8 [21.4, 53.1]	
					m - mobile machine and operatives n.e.c.	44.2 [24.9, 72.3]	
					m - elementary construction occupations	82.1 [63.9, 103.7]	
					m - packers, bottlers, canners and fillers	51.6 [24.9, 91.4]	
					m - postal workers, mail sorter, messengers, couriers	58.2 [44.5, 74.6]	
					m - cleaners & domestics	66.6 [50.3, 86.5]	
					m - refuse and salvages occupations	45.8 [23.9, 79.2]	
					m - vehicle valets & cleaners	142.9 [60.7, 275.5]	
					m - Security guards & related	100.7 [83.8, 117.6]	
					m - elementary storage occupations	54 [43.4, 64.6]	
					m - hospital porters	86.7 [47.7, 142.3]	

Appendix B

					m - kitchen & catering as- sistants		57 [38, 81.9]		
					m - waiters & waitresses		95.7 [46.6, 169.1]		
Lastrucci, 2020	Cross-sec- tional	Study region: Italy	Infection (IgG, IgM)	Investigated occupation: diverse (n=4 occupational sectors)	Type of service	total	positive	OR	- logistic regression with 2 covaria- bles (age, sex) - High response - Cross-sectional design
		work- from- home (adminis- trative profiles)			725	7	1		
		Sample population: included 4,656 partic- ipants from the Prov- ince of Prato, Tus- cany, Italy		Assessment: questionnaire	commu- nity sup- port ser- vice	502	5	1.03 [0.30- 3.26]	
		Sample size: 4 656			local health authority support service	601	10	1.73 [0.66- 4.80]	
		Age: Md[IQR]= 49[38, 57]			health services	2828	116	4.93 [2.19- 10.43]	
		Time of outcome: 05/2020		Time of occupation assessment: 05/2020					
		Response: 95,5							
Magnusson, 2021	cohort	Study region: Norway	Infection (PCR testing;	Investigated occupation: diverse (n=22 occupational sectors)	occupation		TP		- Included the entire working-age population of Norway
		Sample population:							

Appendix B

		The study included the entire Norwegian population of working-age adults (20–70 years)	ICD-10: U07.1)		individuals of working age_ZR1	1	Ref.	- Detailed occupational classification - Temporal differences were investigated
		Sample size: 3 579 608			nurses_ZR1	1	2,736 [2,53; 2,96]	
		Age: Mean (Sd)= 44.1(14.3)			physicians_ZR1	1	2,378 [1,53; 3,69]	
		Time of outcome: 02/2020-12/2020			dentists_ZR1	1	0,676 [0,58; 0,79]	
		Response: Register			primary school teacher_ZR1	1	0,561 [0,42; 0,74]	
					early childhood education_ZR1	1	0,757 [0,67; 0,86]	
					childcare workers_ZR1	1	0,553 [0,41; 0,75]	
					secondary education teachers_ZR1	1	0,86 [0,71; 1,04]	
					university and higher education teachers_ZR1	1	0,727 [0,65; 0,81]	
					shop sales assistant_ZR1	1	0,721 [0,62; 0,83]	
					cleaners_ZR1	1	0,635 [0,5; 0,81]	
					waiters_ZR1	1	0,829 [0,56; 1,23]	
					bartenders_ZR1	1	0,977 [0,72; 1,32]	

Appendix B

					food service counter at- tendant_ZR1	1	2,143 [1,76; 2,61]	
					bus and tram drivers_ZR1	1	1,315 [1,07; 1,62]	
					car, taxi and van drivers_ZR1	1	1,421 [0,95; 2,12]	
					physiothera- pists_ZR1	1	0,404 [0,23; 0,71]	
					hotel reception- ists_ZR1	1	0,28 [0,07; 1,12]	
					travel guides_ZR1	1	0,753 [0,31; 1,81]	
					travel attendants and travel stew- ards_ZR1	1	0,296 [0,042; 2,1]	
					transport con- ductors_ZR1	1	0,437 [0,25; 0,77]	
					fitness and recre- ation instructors and programme leaders_ZR1	1	0,418 [0,24; 0,74]	
					hair dress- ers_ZR1	1	2,736 [2,53; 2,96]	
					individuals of working age_ZR2	2	Ref.	

Appendix B

					nurses_ZR2	2	1,141 [0,88; 1,47]	
					physicians_ZR2	2	0,845 [0,71; 1]	
					dentists_ZR2	2	0,203 [0,029; 1,44]	
					primary school teacher_ZR2	2	1,142 [0,99; 1,32]	
					early childhood education_ZR2	2	0,727 [0,54; 0,99]	
					childcare work- ers_ZR2	2	1,145 [1,02; 1,29]	
					secondary educa- tion teach- ers_ZR2	2	1,095 [0,82; 1,47]	
					university and higher education teachers_ZR2	2	0,85 [0,68; 1,07]	
					shop sales assis- tant_ZR2	2	1,133 [1,03; 1,25]	
					cleaners_ZR2	2	0,857 [0,73; 1,01]	
					waiters_ZR2	2	1,873 [1,61; 2,18]	
					bartenders_ZR2	2	2,559 [2,05; 3,2]	
					food service counter at- tendant_ZR2	2	1,656 [1,31; 2,09]	

Appendix B

					bus and tram drivers_ZR2	2	1,162 [0,81; 1,66]		
					car, taxi and van drivers_ZR2	2	1,288 [1,02; 1,63]		
					physiotherapists_ZR2	2	0,801 [0,42; 1,54]		
					hotel receptionists_ZR2	2	1,03 [0,7; 1,52]		
					travel guides_ZR2	2	0,845 [0,35; 2,03]		
					travel attendants and travel stewards_ZR2	2	2,752 [1,59; 4,75]		
					transport conductors_ZR2	2	1,287 [0,41; 4]		
					fitness and recreation instructors and programme leaders_ZR2	2	1,134 [0,77; 1,67]		
					hair dressers_ZR2	2	1,144 [0,78; 1,69]		
Miller, 2021	Cross sectional	Study region: 3 739	Infection (NAAT-antigen test)	Investigated occupation: farmworker (diverse)		Total	Pos.	- A specific working environment were investigated - Detailed occupational classifications	
		office			49	3			
		forklift operator			86	9			
		packing and sorting fruit			304	84			

Appendix B

		grower in Okanogan County, Washington-			fruit packing support	126	30		
		Sample size: 3.739		Assessment: at work	other warehouse (e.g., maintenance, cleaning, transportation)	110	8		
		Age: Not specified			unknown job role	51	36		
		Time of outcome: 05/2020 to 08/2020		Time of occupation assessment: 05/2020 to 08/2020	orchard employees	3.013	178		
		Response: 75,5							
Möhner, 2020	Cohort	Study region: Germany	Infection (ICD-10: U07.1, U07.2, U04.9, B34.2, B97.2)	Investigated occupation: diverse (n= 9 occupational sectors)					
		Sample population: The study included more than 4.1 million employed individuals insured by the BARMER GEK health insurance in Germany.			hospital_food production	0.89 [0.43, 1.64]			- Large sample size
		Sample size: 4 100 000		Assessment:	hospital_energy/waste/water, cleaning sectors	1.01 [0.69, 1.41]			- Data were from 1 insurance company.
					hospital_sale of food, beverages, drugstore products, etc.	0.98 [0.74, 1.27]			- No information of race, ethnicity, or socioeconomic status
					hospital_local public transport, inter-city railservices	1.09 [0.50, 2.06]			

Appendix B

		Age: -		coded social security data (U07.1, U07.2, U04.9, B34.2, and B97.2)	hospital_postal services, logistics sector	1.53 [1.05, 2.15]			
		Time of outcome: 01/2020 to 05/2020		Time of occupation assessment: 01/2020 to 05/2020	hospital_security services, law enforcement services	1.75 [1.17, 2.51]			
		Response: register			hospital_Employees with patient contact in hospitals and medical practices	1.75 [1.56, 1.97]			
					hospital_Employees in the sector of providing and caring for the elderly	2 [1.59, 2.47]			
					hospital_temporary agency work in production/logistics	2.3 [1.67, 3.08]			
Nwaru, 2020	Cohort	Study region: Sweden	Infection, hospitalization and ICU admission	Investigated occupation: diverse (n= 8 occupational sectors)	Out-come type	occupation	N	HR	- comprehensive national data and a large sample size - occupational status is from 2018-2019
		Sample population: The sample was derived from the SCIFI-PEARL project, a large							

Appendix B

		register-based cohort.	(ICD-10: U07.1, U07.2)	Assessment: register	Time of occupation assessment: 2018-2019		non-essential workers	233957	Ref.	- model were adjusted for age, gender, marital status, immigrant status, healthcare region, education and income
		infection				healthcare workers	29233	1,92 [1.86, 1.99]		
		infection				teachers	26642	1.44 [1.38, 1.50]		
		infection				service sector workers	22957	1.1 [1.05, 1.15]		
		infection				police and security services	3230	n.s.		
		infection				postal workers and delivery	1818	n.s.		
		infection				taxi, bus, and tram drivers	2778	n.s.		
		infection				cleaners	5437	n.s.		
						non-essential workers	233957	Ref.		
		Hospital				healthcare workers	29233	1,7 [1.4, 2.1]		
		hospital				teachers	26642	1.19 [0.9, 1.50]		

Appendix B

					hospi- tal	service sector workers	22957	0,98 [0.7, 1.3]	
					hospi- tal	police and se- curity services	3230	n.s.	
					hospi- tal	postal workers and delivery	1818	n.s.	
					hospi- tal	taxi, bus, and tram drivers	2778	n.s.	
					hospi- tal	cleaners	5437	n.s.	
						ICU_non-es- sential workers	233957	Ref.	
					ICU	ICU_healthcare workers	29233	1,8 [1.00, 3.10]	
					ICU	ICU_teachers	26642	1,06 [0.5, 2.2]	
					ICU	ICU_service sector workers	22957	0.82 [0.4, 1.9]	
					ICU	ICU_police and security ser- vices	3230	n.s.	

Appendix B

					<table><tr><td>ICU</td><td>ICU_postal workers and delivery</td><td>1818</td><td>n.s.</td></tr><tr><td>ICU</td><td>ICU_taxi, bus, and tram drivers</td><td>2778</td><td>n.s.</td></tr><tr><td>ICU</td><td>ICU_cleaners</td><td>5437</td><td>n.s.</td></tr></table> n.s. ... not specified HR ... hazard ratio	ICU	ICU_postal workers and delivery	1818	n.s.	ICU	ICU_taxi, bus, and tram drivers	2778	n.s.	ICU	ICU_cleaners	5437	n.s.													
ICU	ICU_postal workers and delivery	1818	n.s.																											
ICU	ICU_taxi, bus, and tram drivers	2778	n.s.																											
ICU	ICU_cleaners	5437	n.s.																											
Poustchi, 2021	Cross-sectional	Study region: Iran Sample population: Participants were from 18 cities in Iran. There were 2 groups a) persons randomly selected from health record (general population) b) participants recruited from high-exposure jobs Sample size: 8 902 Age: Me=42.6 Time of outcome: 04/2020 to 06/2020	Infection (IgG, IgM)	Investigated occupation: diverse (n=6 occupational sectors) Assessment: at work Time of occupation assessment: 04/2020 to 06/2020	<table><tr><td></td><td>N</td><td>seropositive</td></tr><tr><td>general population</td><td>3.530</td><td>494</td></tr><tr><td>non-front-line HCW</td><td>1.156</td><td>162</td></tr><tr><td>front-line HCW</td><td>1.245</td><td>209</td></tr><tr><td>pharmacy employees</td><td>620</td><td>101</td></tr><tr><td>taxi drivers</td><td>718</td><td>101</td></tr><tr><td>cashiers of supermarket chains</td><td>753</td><td>110</td></tr><tr><td>bank employees</td><td>880</td><td>136</td></tr></table>		N	seropositive	general population	3.530	494	non-front-line HCW	1.156	162	front-line HCW	1.245	209	pharmacy employees	620	101	taxi drivers	718	101	cashiers of supermarket chains	753	110	bank employees	880	136	- Seroprevalence was weighted by age, sex, and city population size to ensure representativeness. - No further information for occupation of general population is given.
	N	seropositive																												
general population	3.530	494																												
non-front-line HCW	1.156	162																												
front-line HCW	1.245	209																												
pharmacy employees	620	101																												
taxi drivers	718	101																												
cashiers of supermarket chains	753	110																												
bank employees	880	136																												

		Response:				
		97				

Appendix B

Stringhini, 2021	Cross-sectional	Study region: Switzerland	Infection (IgG)	Investigated occupation: diverse (n=16 occupational sectors)	Activity Sector		N	Sero positive	- In the original paper, the occupations were compared with healthcare, so the adjusted estimators could not be used because healthcare was an ineligible comparison group - Moderate participation rates
		public administration			1.056	94			
		healthcare			1.668	185			
		transportation			1.185	99			
		nursing homes			1.102	157			
		public security			1.055	83			
		food industry			755	76			
		homecare			753	91			
		Sample population: Workers from 16 economic sectors in Geneva, Switzerland, were invited to participate.		Assessment: at work	social work		734	62	
		Sample size: 10 513			financial services		528	65	
		Age: Me(Sd) = 43 (10.7)			international organizations		425	24	
		Time of outcome: 05/2020 to 09/2020			early childhood education		259	15	
					pharmacy		254	28	
					construction		182	11	
					media		166	7	
					agriculture		97	8	
					other		294	21	
public administration			1.056	94					
healthcare			1.668	185					
Response: 41	Time of occupation assessment: 05/2020 to 09/2020								

Stufano, 2021	Cross-sectional	Study region: Italy	Infection (rRT-PCR)	Investigated occupation: correctional workers (diverse)					- The occupational group studied were all those working in prison.
		Sample population: study population consisted of inmates and				cam-paign	Total	positive	

Appendix B

		correctional workers in an Italian prison.			adminis- trative staff	first	66	0	- Just workers from 1 prison were investi- gated.
		Sample size: 367		Assessment: at work	HCW	first	77	2	
		Age: -			correc- tional of- ficers	first	216	4	
		Time of outcome: 11/2020 to 01/2021		Time of occupation assessment: 11/2020 to 01/2021	external workers	first	8	0	
		Response: 91.3			adminis- trative staff	second	49	0	
					HCW	second	47	0	
			correc- tional of- ficers		second	202	0		
			external workers		second	4	0		
Tovar, 2021	Cross-sec- tional	Study region: Peru	Infection (IgG, IgM)	Investigated occupation: diverse (n=5 occupational sectors)		N	positive	none	
		Sample population: The study population consisted of workers at the market and workers at the bus depot.			bus depot admin	62	20		
		Sample size: 1 773		Assessment: at work	bus depot driver	329	80		
		Age:			bus depot cook/	52	25		

Appendix B

		-1285 vendors median age [interquartile range]: 40 [30–51] years - 488 workers (bus depot, drivers etc.) median age: 39 [32–48] years			cleaner/ security bus depot maintenance market vendors 34 11 1.285 565													
		Time of outcome: 06/2020 to 07/2020		Time of occupation assessment: 06/2020 to 07/2020														
		Response: 92.9																
Verbeck, 2021	Cohort	Study region: Belgium Sample population: All employees covered under the Belgian social security scheme were included (Self-employed individuals not included). Sample size: 4 390 750 Age: -	Infection (register confirmed cases)	Investigated occupation: diverse (n= 18 occupational sectors) Assessment: database of active employees (NACE-BEL)	Results <table><tr><td>Description</td><td>P</td><td>Employees</td><td>Incidence</td></tr><tr><td>general population</td><td>1</td><td></td><td>423</td></tr><tr><td>sports activities, amusement and recreation activities</td><td>1</td><td>26.911</td><td>955</td></tr></table>	Description	P	Employees	Incidence	general population	1		423	sports activities, amusement and recreation activities	1	26.911	955	- Occupational sectors with at least 10,000 employees were included in detailed analyses. - Large data set
Description	P	Employees	Incidence															
general population	1		423															
sports activities, amusement and recreation activities	1	26.911	955															

Appendix B

		Time of outcome: 09/2020 to 10/2020		Time of occupation assessment: 09/2020 to 10/2020	human health activities	1	261.154	780	
		creative, arts and entertainment activities			1	21.922	739		
		food and beverage service activities			1	191.978	723		
		residential care activities			1	162.464	698		
		accommodation			1	27.454	652		
		activities of membership organisations			1	47.887	639		
		activities auxiliary to financial services and insurance activities			1	30.351	626		

					security and investiga- tions activity	1	20.096	622		
					office ad- ministrative, office sup- port and other busi- ness support activities	1	36.731	618		
					sports activi- ties	1	21.131	1.008		
					other resi- dential care activities	1	15.412	837		
					hospital ac- tivities	1	210.745	819		
					hotels and similar ac- commoda- tion	1	20.076	792		
					residential care activi- ties for the elderly and disabled	1	66.667	786		

Appendix B

					restaurants and mobile food service activities	1	149.471	756		
					activities of call centres	1	10.133	750		
					creative, arts and entertainment activities	1	21.922	739		
					other passenger land transport	1	40.751	719		
					medical and dental practice activities	1	22.695	705		
					activities of sports clubs	1	5.954	1.394		
					other human resources provision	1	4.320	1.250		
					fitness facilities	1	3.707	1.187		
					other retail sale of food in specialised stores	1	3.312	1.117		

					other sports activities	1	3.220	1.087	
					performing arts	1	5.196	1.020	
					other amusement and recreation activities	1	3.398	883	
					manufacture of air and spacecraft and related machinery	1	5.257	875	
					other residential care activities	1	15.412	837	
					service activities incidental to air transportation	1	5.968	821	
					activities of football clubs	1	3.605	1.609	
					activities of leagues and	1	1.961	1.428	

Appendix B

					sports federations				
					other human resources provision	1	4.320	1.250	
					fitness facilities	1	3.707	1.187	
					other retail trade of food in specialised stores	1	2.857	1.155	
					general ordinary secondary education	1	159.055	1.143	
					general construction of office buildings	1	1.756	1.139	
					general social services with accommodation	1	2.500	1.080	
					production of shows by	1	4.924	1.056	

					artistic en-sembles				
					other clean-ing activities	1	2.846	1.019	
					general pop-ulation	2		816	
					sports activi-ties, amuse-ment and recreation activities	2	26.687	1.660	
					human health activi-ties	2	261.680	1.631	
					residential care activi-ties	2	162.476	1.543	
					food and beverage service activ-ities	2	189.940	1.342	
					public ad-ministration and defence; compulsory social secu-rity	2	542.998	1.321	

					security and investiga- tions activity	2	20.015	1.304	
					education	2	534.158	1.294	
					activities auxiliary to financial ser- vices and in- surance ac- tivities	2	30.322	1.273	
					real estate activities	2	24.582	1.257	
					office ad- ministrative, office sup- port and other busi- ness support activities	2	37.037	1242	
					sports activi- ties	2	21.062	1.752	
					residential care activi- ties for the elderly and disabled	2	66.609	1.746	

					hospital ac- tivities	2	210.960	1.688	
					other resi- dential care activities	2	15.472	1.577	
					medical and dental prac- tice activities	2	22.765	1.454	
					office ad- ministrative and support activities	2	11.777	1.435	
					secondary education	2	404.968	1.409	
					residential care activi- ties for men- tal retarda- tion, mental health and substance abuse	2	39.972	1.406	
					beverage serving ac- tivities	2	19.500	1400	
					activities of call centres	2	10.367	1389	

Appendix B

					other human resources provision	2	4.326	2.381	
					activities of sports clubs	2	5.875	2.349	
					other sports activities	2	3.208	1.964	
					child day-care activities	2	25.658	1.824	
					other retail sale of food in specialised stores	2	3.305	1.785	
					fitness facilities	2	3.741	1.764	
					residential care activities for the elderly and disabled	2	66.609	1.746	
					other credit granting	2	3.230	1.734	
					manufacture of air and spacecraft	2	5.251	1.714	

					and related machinery					
					public order and safety activities	2	53.021	1.688		
					manufacture of weapons and ammunition	2	2.183	2.657		
					general construction of office buildings	2	1.761	2.556		
					general ordinary secondary education	2	159.806	2.478		
					other human resources provision		4.326	2.381		
					activities of football clubs	2	3.556	2.250		
					activities of leagues and sports federations	2	1.956	2.250		

Appendix B

					distribution of gaseous fuels through mains 2 1.881 2.126		
					activities of medical laboratories 2 5.159 1.977		
					nurseries and day-care centres 2 22.564 1.950		
					motion picture projection activities 2 1.633 1.837		
					P ... Period 1 ... 29.09-12.10 2 ...06.10-19.10		
Ward, 2021	Cohort	Study region: USA	Infection (PCR)	Investigated occupation: prison officers	Time Period Cases / 100.000		- Included correctional staff from nearly all U.S. states - Variability in case reporting protocols across states
		Sample population: U.S. correctional staff from state and federal prisons			General population 03/20 to 05/20 385		
		Sample size: 386 311		Assessment: register	Prison staff 03/20 to 05/20 1469		
		Age:					

Appendix B

		-			General population	03/20 to 11/20	2900		
		Time of outcome: 03/2020 to 11/2020		Time of occupation assessment: 2019-2020	Prison staff	03/20 to 11/20	9316		
		Response: 100							
Zhang, 2021	cohort	Study region: USA	Infection (lab confirmed)	Investigated occupation: diverse (n=22 occupational sectors)		employees	cases	Case per 100.000 employees	- no real-time occupational data were available, occupation time were from 2019
		Sample population: Case counts were published by the Washington State Department of Health.			office and administrative support	392.860	695	176,91	- only 41% of COVID-19 cases had occupational information
		Sample size: 10 850		Assessment: SOC 2010	architecture and engineering	77.020	97	125,94	
		Age: -			arts, design, entertainment, sports, and media	49.860	93	186,52	
		Time of outcome: 02/2020 to 06/2020		Time of occupation assessment: 05/2019	building and	90.590	579	639,14	
		Response: Register (41%, 26 799 cases, only 10 850							

		with occupational in- formation)			grounds cleaning and mainte- nance				
					business and finan- cial opera- tions	225.940	203	89,85	
					community and social service	52.280	178	340,47	
					computer and math- ematical	173.940	111	63,82	
					construc- tion and extraction	169.600	606	357,31	
					education, training, and library	189.670	241	127,06	
					farming, fishing, and for- estry	22.250	741	3.330,34	
					food prep- aration	299.950	517	172,36	

					and serv- ing related				
					healthcare practition- ers and technical	171.440	1.208	704,62	
					healthcare support	144.170	989	686,00	
					installa- tion, mainte- nance, and repair	133.320	240	180,02	
					legal	22.500	49	217,78	
					life, physi- cal, and so- cial sci- ences	39.850	54	135,51	
					manage- ment	162.850	667	409,58	
					personal care and service	74.900	579	773,03	
					production	178.980	964	538,61	
					protective service	66.690	231	346,38	

					sales and related	316.510	712	224,95	
					transportation and material moving	263.330	1.096	416,21	