Table S1. Effect estimates and evidence for Transport sector

Outcome	Study	Subgroups	Wave 1 Jan 2020 to Nov 2020	Wave 2 Dec 2020 to May 2021	Wave 3 June 2021 to Nov 2021	Wave 4 Dec 2021 onwards
SARS-CoV-2 infection	Airoldi 2021 (Italy)	Transportation		NA NA	NA	NA
meetion	Ballering 2021 (Netherlands)		NA	NA	NA	NA
	Beale 2023 (UK)	Transport and mobile machine	1.1(0.7 to 1.5)		1.0(0.7 to 1.5)	0.8(0.6 to 1.1)
	Biarnes- Martinez		NA	NA 1.5(1.3 to	NA	NA
	Bonde 2023 (Denmark)	Bus and tram drivers Transport conductors				
	Green 2023 (UK)	Transport (incl. storage, logistic)	1.2(1.0 to 1.4)		NA	NA
	Magnusson 2021 (Norway)	Transport conductor	0.6 (0.2 to 2.2)	1.8 (1.2 to 2.8)	NA	NA
	, , ,	Travel steward	0.8 (0.3 to 1.8)	1.6 (1.2 to 2.3)		
		Bus or tram driver	2.0 (1.7 to 2.5)	1.4 (1.2 to 1.5)		
		Taxi driver	1.2 (1.0 to 1.4)	1.2 (1.1 to 1.3)		
	Reuter 2022 (Germany)		NA	NA	NA	NA
	Rhodes 2022 (UK)	Transport	1.3(1.2 to 1.5)		1.0(0.9 to 1.1)	1.0(1.0 to 1.1)
	Verbeeck 2021 (Belgium)	Transport and storage		NA	NA	NA
Hospitalisation with COVID-19	Bonde (2022) (Denmark)#	Heavy Truck and Lorry Drivers Bus and Tram Drivers Car, Taxi and Van Drivers Locomotive Engine Drivers Travel Attendants and Travel Stewards	0.84 (0.52 to 1.36) 2.46 (1.79 to 3.40) 1.6 (0.94 to 2.70) 1.23 (0.58 to 2.61) 0.63 (0.15 to 2 58)			
	Mutambudzi (2020) (England)	Transport workers	1.43 (0.78 to 2.63)	NA	NA	NA
COVID-19 mortality	Billingsley 2022 (Sweden)	Taxi/bus	1.41(0.8 to 2.5)	NA	NA	NA
	Cherrie 2022 (UK)	Taxi and cab drivers and chauffeurs Bus and coach drivers	2.4(1.0 to 3.0) 1.8(1.4 to 2.5)	3.1(2.6 to 3.8) 2.4(1.9 to 3.1)	1.7(1.3 to 2.3) 1.4(0.9 to 2.3)	1.0(0.6 to 1.8) 1.5(0.9 to 2.7)
	Matz 2023		NA	NA	NA	NA
	(UK) Nafilyan 2021 (UK)	Taxi and cab drivers and chauffeurs - Male Taxi and cab drivers and chauffeurs -Female Bus and coach drivers - Male	1.4(1.1 to 1.7) 2.5(1.0 to 5.9) 1.1(0.9 to 1.5)	NA	NA	NA
		Bus and coach drivers - Female	1.7(0.7 to 4.1)			

Key: deep red = evidence of highly elevated risks, red= evidence of moderately elevated risks, green= evidence of reduced risks, blue= unclear whether risks are reduced or increased, yellow=varies by subgroup

Table S2. Effect estimates and evidence for Food production and retail sector

Outcome	Study	Subgroups	Wave 1 Jan 2020 to Nov 2020	Wave 2 Dec 2020 to May 2021	Wave 3 June 2021 to Nov 2021	Wave 4 Dec 2021 onwards
	Airoldi 2021 (Italy)	Food industry Food industry (meat)		NA	NA	NA
	Ballering 2021 (Netherlands_	1 ood maasay (maar)	NA	NA	NA	NA
Beale 2023 (UK)		Food preparation and hospitality workers	1.82 (1.2 to 2.8)		1.0(0.6 to 1.9)	0.7(0.3 to 1.3)
	Biarnes-Martinez 2022 (Spain)		NA	NA	NA	NA
	Bonde 2023 (Denmark)	Waiters Food service counter attendants Bartenders Restaurant managers Hotel managers Food and related products machine operators	1.5(1.4 to 1.6) 1.3(1.1 to 1.5) 1.6(1.3 to 1.9) 1.3(1.0 to 1.7) 1.5(1.0 to 2.2) 2.0(1.8 to 2.2)			
	Green 2023 (UK)	Food production, agriculture, farming Hospitality(hotel, restaurant)	0.9(0.7 to 1.2) 1.3(1.1 to 1.5)		NA	NA
	Magnusson 2021 (Norway)	Bartender Waiter	0.9 (0.6 to 1.3) 0.8 (0.7 to 0.9) 0.9 (0.7 to 1.2)	2.0 (1.8 to 2.2) 1.5 (1.4 to 1.6) 1.4 (1.3 to 1.5)	NA	NA
	Reuter 2022 (Germany)	Food counter attendant Selling goods and foodstuffs	1.5(0.5 to 6.5)	NA	NA	NA
	Rhodes 2022 (UK)	Food	1.1(1.0	to 1.3)	0.9(0.8 to 1.0)	1.0(1.0 to 1.1)
	Verbeeck 2021 (Belgium)	Food and beverage service		NA	NA	NA
Hospitalisation with COVID-19	Bonde (2022) (Denmark)	Cooks Waiters and Bartenders Kitchen Helpers Fast Food Preparers	0.5 (0.2 to 1.0) 0.7 (0.3 to 1.3) 0.9 (0.5 to 1.6) 0.4 (0.1 to 1.5)			
	Mutambudzi (2020) (England)	Food workers	0.8 (0.4 to 1.8)	NA	NA	NA
COVID-19 mortality	Billingsley 2022 (Sweden)	Meat packers	No deaths	NA	NA	NA
	Cherrie 2022 (UK)	Food production Food retail and distribution	1.3(1.0 to 1.8) 1.2(1.1 to 1.5)	1.2(0.9 to 1.4) 1.5(1.3 to 1.6)	1.2(0.7 to 1.6) 1.1(0.9 to 1.3)	1.0(0.5 to 1.5) 1.1(0.7 to 1.4)
	Matz 2023 (UK)		NA	NA	NA	NA
	Nafilyan 2021 (UK)	Food production – Male Food production – Female Food retail and distribution – Male	1.2(0.9 to 1.5) 1.2(0.8 to 1.8) 1.1(1.0 to 1.3)	NA	NA	NA
Kov: doop rad -	ovidence of high	Food retail and distribution - Female	1.0(0.9 to 1.2)	moderately	olovatod ri	cke groon-

Key: deep red = evidence of highly elevated risks, red= evidence of moderately elevated risks, green= evidence of reduced risks, blue= unclear whether risks are reduced or increased, yellow=varies by subgroup

Table S3. Newcastle-Ottawa Scale for quality assessment of selected cohort studies for the scoping review.

	Selection			Comparabil Outcome				
Study	1. Representative ness of the exposed cohort	2. Selecti on of the non- expose d cohort	3.Ascertainm ent of exposure	4. Demonstrati on that outcome of interest was not present at start of study	1. Comparabil ity of cohorts on the basis of the design or analysis	1. Assessme nt of outcome	2. Was the follow- up long enough for outcom es to occur?	3. Adequa cy of follow- up cohorts
Airoldi	-	*	-	*	-	*	*	*
2021								
Ballering 2021	*	*	-	*		*	*	*
Beale 2023	-	*	-	*	**	-	*	*
Biarnes- Martinez 2022	-	-	-	*	-	*	*	*
Billingsley 2022	*	*	-	*	**	-	*	*
Bonde 2022	*	*	*	*	**	*	*	*
Bonde 2023	*	*	*	*	**	*	*	*
Cherrie 2022	*	*	-	*	*	*	*	*
Green 2023	*	*	-	*	**	*	*	*
Matz 2023	*	*	-	*	*	*	*	*
Magnusso n 2021	*	*	*	*	**	*	*	*
Mutambu dzi 2020	-	*	-	*	**	*	*	*
Nafilyan 2021	*	*	-	*	**	*	*	*
Nwaru 2022	*	*	-	*	**	*	*	*
Reuter 2022	*	*	-	*	**	*	*	*
Rhodes 2022	*	*	-	*	**	*	*	*
Verbeeck 2021	*	*	*	*	-	*	*	*

Table S4. Methods of exposure measurement and outcome measurement

	Method of ascertaining occupation exposure	Method of ascertaining outcome
	group	
Airoldi 2021	Occupational sector classified by local expert	Antibody test from worker screening
	from company details	programme
Ballering 2021	Self reported	Self-reported positive PCR test or a self-
		reported clinical diagnosis of COVID-19 by a
		physician based on participants' symptoms
Beale 2023	4-digit SOC codes generated from self reported	Self-reported PCR or lateral flow test with
	job title used to generate bespoke groups.	study-specific antibody tests for a sub-
		sample.
Biarnes-Martinez	Occupation from previous sick leave report in	Positive PCR recorded in database of
2022	primary care database (excluded if no previous	diagnoses
	sick-leave).	
Billingsley 2022	3-digit SSYK codes used to generate bespoke	Death associated with COVID-19 on death
	groups	register
Bonde 2022	4-digit DISCO code used to generate one-digit	Positive PCR-test at accredited laboratory.
	and two-digit divisions, from national register	Testing offered free of charge to all residents
		regardless of symptoms from Aug 2020
		onwards.
Bonde 2023	4-digit DISCO code used to generate bespoke	Hospital admission of
	groups	≥12 hours in combination with a positive PCR
		test up to 14 days
01 1 0000		prior to admission.
Cherrie 2022	4-digit SOC codes from death certificate used	COVID-19 mentioned on death certificate
	to generate bespoke groups	
Green 2023	ONS 15 sector codes	Positive PCR test via a study specific monthly
		test
Matz 2023	4-digit SOC codes from death certificate used	Death by any cause from ONS death registry
	to generate bespoke groups	
Magnusson 2021	7-digit STYRK-98 code used to generate	Positive PCR test or diagnosis of confirmed
	bespoke groups	COVID-19 or hospitalisation for COVID-19 in
N 4 +	A digit COC and an annual of frame of frame and	medical records
Mutambudzi	4-digit SOC codes generated from self reported	Positive test result for SARS-CoV-2 in a
2020	job title used to generate bespoke groups	hospital setting or death with a primary or
N. C.I. 2024	4 1: 1: 600	contributory cause reported as COVID-19
Nafilyan 2021	4-digit SOC codes from death	COVID-19 mentioned on death certificate
	certificate/census used to generate bespoke	
N	groups	Desitive DCD recorded as detabase of
Nwaru 2022	3-digit SSYK codes used to generate bespoke	Positive PCR recorded on database of
	groups	notifiable diseases or primary care records or
		cause of death register or intensive care
Poutor 2022	E digit Cormon Classification of accumations	register Self-reported positive test result
Reuter 2022	5-digit German Classification of occupations generated from self-reported job title used to	Self-reported positive test result
	generated from self-reported job title used to generate bespoke groups.	
Rhodes 2022	4-digit SOC codes generated from self reported	Positive PCR test via a study specific monthly
MIDUES ZUZZ	job title used to generate major categories and	Positive PCR test via a study specific monthly
	bespoke groups. ONS 15 sector codes also	test
	used.	
Verbeeck 2021		Confirmed cases on a national register
VELDEECK ZUZI	NACE-BEL codes from employee database (level 1, 2 or 3 groups depending on number of	Confirmed cases on a national register
	employees)	
	citipioyees)	

SOC=Standard Occupational Classification. ONS=Office of National Statistics. DISCO=Danish International Standard Classification of Occupations. SSYK=Swedish Standard Occupational Classification.

Table S5 Inclusion/exclusion criteria

Inclusion criteria	Exclusion criteria
General population cohort	Data on single work sector only
Outcome of SARS-CoV-2 infection,	Exposure based on Job Exposure
hospitalisation due to COVID-19 or COVID-	Matrix categories only
19 mortality	
Published in a peer-reviewed journal	Studies using only long COVID as an
	outcome
Reporting data comparing outcomes in two	
or more sector groups to a reference	
category (general population or low-risk	
group)	
Population based in Europe	

Figure S1: Flow chart of study inclusion

