Supplementary material

Healthcare workers' SARS-CoV-2 infection rates during the second wave of the pandemic: prospective follow-up study

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COVID-19. Infection control precautions, regional guideline

Urgent treatment and diagnostics must not be delayed due to any suspicion of COVID-19.

The number of persons in contact with the patient should be kept to a necessary minimum. Donning and removal of personal protective equipment (PPE) should be trained. For choice of PPE see Appendix 1: Choice of personal protective equipment for suspected or verified COVID-19

General precautions always apply. In addition, additional precautions corresponding to contact infection and droplet infection are used.

Schema 1 and Schema 2 below describe the additional infection control measures for suspected or confirmed COVID-19. Schema 3 describes tracing of close contacts as well as containment and outbreak management in case of detection of SARS-CoV-2 RNA in staff and patients.

Schema 1: Inpatient hospital ward

Route of	Droplet transmission and direct and indirect contact transmission
transmission	
Additional	Patients with symptoms of COVID-19 (suspected or verified COVID-
precautions	19)
apply to:	 Suspicion of COVID-19 should arise in the spectrum from mild symptoms of upper and lower respiratory tract infection to severe lower respiratory infection.
	 Suspicion of COVID-19 should arise also in vaccinated patients Suspicion of COVID-19 should arise also in patients previously tested positive for SARS-CoV-2 RNA.
	The additional precautions apply for patients with symptoms until the criteria in the section "Duration of isolation" are fulfilled.
	Patients without symptoms of COVID-19, who have tested PCR positive for SARS-CoV-2 RNA:
	 Patients who have never previously had a positive SARS-CoV-2 RNA test until 7 days after the positive test, provided they are still without symptoms.
	 Patients, who are past a verified COVID-19 infection (>48 hours after end of symptoms or after expert opinion) or previously tested SARS-CoV-2 RNA positive, if more than 12 weeks have passed since end of symptoms (asymptomatic) or 12 weeks after first positive SARS-CoV-2 RNA test (asymptomatic)
	Patients who are close contacts to a person tested positive for SARS-CoV-2 RNA:
	 If the exposure has ended additional precautions apply until showing a negative test for SARS-CoV-2 RNA taken minimum 6 days after last exposure.

- If the exposure continues (e.g. for a parent taking care of a child tested positive for SARS-CoV-2 RNA) additional precautions apply until showing a negative test for SARS-CoV-2 RNA taken:
 - at least 48 hours after the positive contact (the child) is symptom free or
 - at least 7 days after the first positive test, if the positive contact (the child) is asymptomatic.

NB: Patients without symptoms of COVID-19, with a missing test result of the SARS-CoV-2 RNA test are not included in the additional precautions in this guideline. Please refer to "General infection control precautions – during an epidemic, regional guideline".

Diagnostics of SARS-CoV-2

See Department of Clinical Microbiology's direction for requisition "1.3. Corona virus (SARS-CoV-2 causing COVID-19) RNA – detection by PCR"

Isolation in a single room – suspected or verified COVID-19 Use a single room with a separate bathroom for patients with confirmed or suspected SARS-CoV-2 infection. The door should be marked with an isolation sign.

Isolation behind a room divider may be used for shorter stays, e.g. at recovery rooms. Isolation behind a room divider requires space and clear marking around the isolated patient, and adherence to general and supplementing control guidelines. The local infection control unit can be contacted for advice.

Room division between more isolated patients can if necessary be used in units with patients awaiting the COVID-19 diagnosis. These should be established in collaboration with the local infection prevention and control unit (IPCU).

Instruction for inpatients: "Patient instruction_isolation COVID-19.

Instruction for discharged patient: "For you who have been tested positive for new corona virus.

Isolation sign for the door of the room:



If aerosol generating procedures are performed in the room, the above sign should also be used for the door.

Cohort isolation – patient with verified COVID-19

Cohort isolation of patients with verified SARS-CoV-2 infection can be done if it is not possible to isolate the patients in single room.

Cohort isolation gives rise to special infection control challenges and should be done in collaboration with the local IPCU.

Choice of personal protective

For choice of personal protective equipment, see appendix:

"Choice of personal protective equipment for suspected or verified COVID-19"

equipment for COVID-19

The individual work task must be risk assessed with respect to duration and exposure for droplets, aerosols or moist generating procedures. If the risk of moist or contamination is high, a liquid tight gown and a full-face shield in addition to the face mask are chosen.

Special for cohort isolation: Disposable gowns can be used for more patients if changed between patients after exposure to contamination (e.g. person lifting or other direct contact with patients/equipment or aerosols).

To reduce the risk of contamination of the disposable gown:

- Protect the front by a plastic apron
- Protect the sleeves by oversleeves for close caring contacts.

Plastic apron and oversleeves are changed between patients.

Special for cohort isolation of COVID-19 patients in intensive care:

Intensive care involves several high-risk procedures for aerosol generation and the personnel are indicated to use a respirator. As the personnel by cohort isolation often goes from one patient to another, the indication for which mask to use can be difficult to fulfil. Also too many shifts between different masks are inexpedient.

It is thus recommended in "Note of aerosol generating procedures in the airways of patients with suspected or verified COVID-19" from the National Serum Institute, that all health personnel staying within 2 meters from cohort-isolated patients in intensive care with suspected or verified COVID-19 wear a FFP2/FFP3 respirator and eye protection.

Special for testing units, see appendices:

"personal protective equipment for testing units_throat swap by suspected COVID-19"

"Testing units - donning of personal protective equipment"

"Testing units – removal of personal protective equipment"

Special for FFP2/3 respirators with valve

Respirators with valve should be used <u>only</u> for patients with verified COVID-19, as the exhaled air is not filtered and the patient is not protected from infection from the personnel. By aerosol generating procedures in patients with suspected, but still unverified COVID-19, a FFP2/3 respirator without valve should be used.

personal protective equipment – general principles

For all work outside the isolation room, the general infection control precautions apply.

Mask and eye protection: Can be worn continuously by the personnel between patients, who are in isolation due to suspected or verified COVID-19. Mask and eye protection should not be touched, and should always be changed if visibly contaminated or moist. If the mask is removed, it should be disposed. If visor or protective googles are removed, they should be disposed or disinfected – see appendix "Range of personal protective equipment including disinfection guidance for COVID-19".

Regarding working environment in relation to personal protective equipment, se "Working environment and COVID-19/personal protective equipment.

The disposable gown should as a rule be changed between patients – see, however, special rules for cohort isolation and testing facilities.

Gloves are changed between patients, and when changing from an unclean to a clean procedure in the same patient. Removal of personal protective equipment 1. Gloves are removed followed by hand disinfection 2. Fluid repellent disposable gown with long sleeves are removed followed by hand disinfection 3. Visor/protective glasses are removed followed by hand disinfection 4. Masks are removed followed by hand disinfection "Removal of personal protective equipment - FOR PRINT" See in addition appendices: "Donning and removal of disposable gown and gloves, Regional infection control quidelines" "Donning and removal, Mask and visor with tie-strings, Regional infection control quidelines" "Donning and removal. Respirator and protective goggles, regional infection control guidelines" Hand hygiene Hand disinfection are performed before leaving the isolation room. Change of gloves and hand disinfection should be done between clean and unclean procedures, and for example before touching clean equipment in cupboards. The patient is instructed in correct hand hygiene and assisted if necessary. A sign regarding hand hygiene is placed on the inside of the isolation room door or at the indication of the cohort. See "Hand disinfection" (for print). **Visitors** Visitors are instructed in hand hygiene and should use the same personal protective equipment as the personnel. Personnel should help visitors with donning and removal of personal protective equipment. Individuals in COVID-19 related self-isolation may under special circumstances be allowed to visit the hospital. Contact the local IPCU for advice. Disinfectant Ethanol 70-85 % v/v (volume/volume percentage) Information Collaborating departments/personnel (medical laboratory technicians, service staff, radiographs etc.) should be informed about the additional precautions. Transportation Before transportation: in-house The patient should wear clean clothes and bed linen The patient should disinfect hands before leaving the room Any wounds should be covered by a tight, clean, and dry bandage Just before the transportation cleaned guardrails, headboards, and elevation control devices are disinfected.

Transportation off-site Transportation off-site Utensils Utensils Utensils Utensils Utensils To patient should wear a type I or II face mask during the transport. If needed to do takes in relation to the patient during the transport, the personnel should use the appropriate personal protective equipment. Special for patient transport with ongoing procedures with high-risk of aerosol generation (e.g. high-flow oxygen therapy): • Choose as far as possible the least trafficked time for transportation and the least trafficked route. • All personnel within 2-meter distance from the patient's airways should use gloves, long-sieeve disposable gown, FFP2 or FFP3 respirators, and protective goggles or visor. • The transport should be accompanied by a least one clean assistant to handle necessary control panels, door handles and openers, and to assure that persons outside the transport team are keeping at least 2 meters distance. • I Immediately after the transport has passed, all contact point where the transport thas stopped are cleaned and disinfected in a radius of 2 meters from the patient (e.g. in and outside the elevator). Transportation off-site When ordering an ambulance, ambulance aircraft or similar, inform of the additional infection hygiene measures that must be used for transfers or treatment tasks. Utensils are brought straight to the washer disinfector. Personal protective equipment (gloves, disposable gown, and sometimes face mask and eye protection) are removed before leaving the room or the cohort. Use new gloves and possibly a disposable aporn when transporting the utensils to the wash room. Utensils are heat disinfected in a washer disinfector. May be washed/disinfected with other utensils. Toys: If toys belonging to the department are reused, it must be cleaned and disinfected as described above. Apply to the general guidelines for cleaning/disinfection. More can be read here: "e-Dob Disinfection. Infection control precautions, regional guideline". For reuse of protective goggles		The notice chould were two Tan II for a little will be a little with the same transfer of the
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		above, it should be send for retreatment or wash at the laundry. Disposable

Procedures with high risk of aerosol generation from the airways of the patient: Horizontal surfaces and contact points within 2 meters' distance from the patient's airways are cleaned and disinfected:

- For repeated procedures: 3 times a day and always at visible contamination
- For single procedures: After the procedure is completed

Daily cleaning

Service staff are informed of the isolation and must use PPE as the other personnel.

Room, bedside table, other furniture and equipment/devices close to the patient are cleaned.

Contact points (handles, guard rail, headboard, elevation remote control, pull cord, switches on lamps/devices/apparatus) are cleaned and disinfected.

Bath and toilet are cleaned. Contact points (handles, taps, toilet seats and toilet flush button) are cleaned and disinfected.

The floor is cleaned.

Cleaning equipment: mops and cloths are wrapped up in the room and sent for washing. Only necessary equipment and cloths/cleaning agents are brought to the room. Equipment are cleaned and disinfected before taken out of the room, alternatively they are taken straight to a washer disinfector.

Length of isolation

Patients with suspected COVID-19: Isolation is discontinued, when the diagnosis is rejected. See "COVID-19. Diagnosis and treatment of, regional guideline, section 3. Diagnostics COVID-19".

Patients with a mild or moderate disease course of COVID-19:

Isolation can be discontinued when *one* of the following criteria is fulfilled:

End of symptoms ≥ 48 hours

OR

• From 10 days after symptom onset, provided fever-free for 48 hours (without antipyretic medication) with significant clinical improvement, and thus only mild recurring symptoms as cough, loss of sense of taste and smell, headache, fatique etc.

Patients with a severe disease course of COVID-19 (need for intensive care, including respirator and ultimately ECMO treatment) and immunocompromised patients: Isolation can be discontinued based on a concrete medical assessment. See "COVID-19. Diagnosis and treatment of, regional guideline, section 6. Discontinuation of isolation".

Patients without symptoms of COVID-19 who have tested positive for SARS-CoV-2 RNA: Isolation can be discontinued 7 days after the first positive test provided that the patient is still without symptoms of COVID-19. This is independent on possible later tests.

Patients without symptoms of COVID-19 who are close contacts to a SARS-CoV-2 positive person: The patient is tested on day 4 and 6 after last exposure and isolation can be discontinued if the test for SARS-CoV-2 RNA on day 6 is negative, provided that the patients has not developed symptoms.

Final cleaning of When the patient has been discharges from the room, a final cleaning is room and performed furniture Service staff are informed of the isolation and must use long-sleeve disposable gown and gloves when cleaning the room. By risk of splatter and droplets full face shield or face mask type II and eye protection should additionally be used. Only necessary equipment and cloths/cleaning agents are brought to the room. Equipment is cleaned and disinfected before leaving the room. The bed is emptied at the room: Duvets and pillows are sent for wash in a laundry bag. Pillows with washable surfaces are cleaned and disinfected at the room. The bed (guard rails, head- and footboards, bed frame, remote controls, possible IV pole and lifting pole) is cleaned and disinfected. Mattress including borders is cleaned and disinfected. The bed is then cleaned thoroughly. The room is cleaned. Horizontal surfaces and contact points, bedside table, all devices/apparatus and aids are cleaned and disinfected. Bath and toilet are cleaned. Toilet, sink, and shower fixtures are disinfected, Toilet paper and toilet brush are thrown away. Shower curtain, bed curtain, and curtains are sent for wash in a laundry bag. Unused equipment, that has been available during the isolation are thrown away or reuse treated. Unused equipment from cupboards are sent for reuse treatment (disposable items are thrown away) if it has been handled without use of correct hand hygiene. The floor is cleaned. Mops and cloths are wrapped up at the room and sent for wash. Waste and Bin bag and laundry bag are wrapped up at the room. laundry Laundry is sent for washing as usual. Waste is handled in accordance to the hospital's usual guidelines. Deceased When handling a deceased person, identical guidelines as for isolation apply (see section "personal protective equipment"). Bedlinen and patient clothes must be changed. Transportation of the deceased see "Transportation – in-house". The deceased should not wear a face mask during transport. The isolation sign regarding relevant personal protective equipment and disinfection agent are

regarding relevant personal protective equipment and disinfection agent are put on the bed – alternatively written on the death note.

Section and handling in the chapel, a long-sleeve disposable gown and gloves

Section and handling in the chapel, a long-sleeve disposable gown and gloves are used. Procedures with risk of splatter and droplets require the use of a full face shield or face mask type II and eye protection.

Recommendations for visitors: Avoid contact with mucous membranes. Perform hand disinfection or hand wash after touching.

From AUH e-Dok COVID-19. Infection control precautions, regional guideline. November 26, 2020

Schema 2: Outpatient, diagnostic, and treatment units

General infection control guidelines always apply

Preparation:

Furniture and equipment within a 2-meter distance from the patient are removed or covered up (or cleaned and disinfected after examination/treatment).

For choice of personal protective equipment, see appendix: "Choice of personal protective equipment by suspected or verified COVID-19

For testing units, see appendix "personal protective equipment at testing units_throat swap by suspected COVID-19

Cleaning/disinfection

- Horizontal surfaces in the room are cleaned
- Used apparatus and equipment (bed, chairs etc.) and contact points (places touched by the patient or personnel, e.g. handles, switches) are cleaned and disinfected.
- Unused equipment, that has been available during the isolation are thrown away or reuse treated. Unused equipment from cupboards are sent for reuse treatment (disposable items are thrown away) if it has been handled without use of correct hand hygiene.
- Spilling or visible contamination with biological material (e.g. faeces/vomit/blood/spinal fluid): Spill is wiped up. Cleaning and disinfection are done.

The floor is cleaned as needed.

Cleaning equipment: mops and cloths are wrapped up at the room and sent for washing. Only necessary equipment and cloths/cleaning agents are brought to the room. Equipment are cleaned and disinfected before taken out of the room, alternatively straight to a washer disinfector.

From AUH e-Dok COVID-19. Infection control precautions, regional guideline. November 26, 2020

Schema 3: Contact tracing of close contacts and outbreak management in detection of SARS-CoV-2 RNA in staff and patients

In need of counselling regarding close contacts at the hospital and suspicion of local spread of SARS-CoV-2: Contact the local infection control unit or Department of Clinical Microbiology.

When to start contact tracing of close contacts or transmission reduction Contact tracing of close contacts:

- <u>always</u> when a person tests positive for SARS-CoV-2 RNA, including health personnel, outpatients and inpatients.
- Transmission reduction starts if there is a suspicion of local infection spread by SARS-CoV-2, including
 - if an inpatient tests positive for SARS-CoV-2 RNA with reasons to believe that the patient was infected at the hospital
 - if two or more patients and/or personnel test positive for SARS-CoV-2 RNA within a defined group and within a defined time period.

Temporal definition of transmission reduction and contact tracing of close contacts Transmission reduction and contact tracing of close contacts is limited in time to 48 hours before the positive test for asymptomatic persons and 48 hours before symptom onset for symptomatic persons.

Close contacts and other contacts

For contact tracing of close contacts outside the hospital and management of close contacts in general refer to "COVID-19. Test of close contacts, regional guideline".

Personnel, who are close contacts are sent home* when recognized and requested to self-isolate until showing a negative test for SARS-CoV-2 RNA taken minimum 6 days (144 hours) after last exposure.

Inpatients, who are close contacts are sent isolated* until showing a negative test for SARS-CoV-2 RNA taken minimum 6 days (144 hours) after last exposure.

*Personnel and patients who are fully vaccinated or past SARS-CoV-2 infection within the last 12 months can refrain from self-isolation, if they are without symptoms of COVID-19. See "COVID-19. Test of close contacts, regional guideline".

When are healthcare personnel close contacts?

Persons in the health care system (personnel and patients) are considered close contacts if believed in high risk of being exposed to droplet transmission or direct/indirect contact transmission and the general infection control guidelines have not been followed – see "General infection control precautions – during an epidemic, regional direction.

If the person showing to be SARS-CoV-2 RNA positive used a type II mask correctly and general infection control guidelines for contact spread were followed in a given situation, there is by default no close contacts in the situation.

For patients:

Patients are regarded as close contacts, if a high risk of exposure to droplet transmission or direct/indirect contact transmission is considered, e.g. has shared toilet or been close to a person with verified COVID-19, or if caring or treatment tasks at the room have violated the general infection control guidelines. Patients sharing the same room will by default be defined as close contacts.

Other contacts:

There may be situations, where the criteria for being close contact is not fulfilled, but the overall evaluation suggests a risk of other contacts to the test-positive person being exposed to droplet spread or direct/indirect contact spread.

Examples of other contacts can be shared offices, meetings, or teaching, where an infected person has participated, and there is doubt whether guidelines for distance, hand hygiene, and cleaning has been followed. These contacts are tested on the 4th and 6th day after exposure, but should not self-isolate.

Transmission reduction and outbreak management

Transmission reduction is initiated when there is a suspicion of local spread of infection with SARS-CoV-2, either if a patient is believed infected at the hospital or if two or more patients and/or staff members are tested positive for SARS-CoV-2 RNA within a defined group of people and a defined time period.

Transmission reduction involves immediate testing for SARS-CoV-2 RNA of all admitted patients at the relevant unit, as well as treatment and caring staff working at the relevant unit within 48 hours before the index person's symptom onset or first positive test. Tests are done at day 0 and day 7 after the risk of local infection spread is known.

If the index person is a patient, who within the last 48 hours has been transferred from another unit or admitted from an institution, a corresponding transmission reduction should be initiated at the other unit/institution.

If more cases are found during the transmission reduction:

- Outbreak management can be expanded to involve personnel, who have had short-term functions at the unit or with patients from the unit, e.g. supervising physicians, lab technicians, radiographs, anaesthesia staff, technical staff etc., as far as they can be identified.
- Contact tracing of close contacts to additional COVID-19 cases is initiated.

SARS-CoV-2 RNA testing of affected personnel and inpatients is repeated every 7th day as long as additional SARS-CoV-2 RNA positive persons are identified at the unit. There can be a need for a more frequent screening (e.g. 2 times per week).

While transmission reduction is ongoing, it is recommended as a supplement to also test patients who are transferred to other units/departments. Transfer should not await the answer of the SARS-CoV-2 RNA test.

From AUH e-Dok COVID-19. Infection control precautions, regional guideline. November 26, 2020

Appendix: Choice of personal protective equipment for suspected or verified COVID-19

The scheme solely states the **supplementing** infection control guidelines for COVID-19

Always perform a risk assessment:

The work task is evaluated according to duration and exposure for droplet and aerosol generating procedures. If the risk for moist or contamination is high, a fluid resistant lab coat and a full face shield combined with the face mask should be chosen. Examples can be work tasks in close proximity to a heavy coughing or sweating patient or aerosol generating procedures such as frequent inhalations.

Situation	Gloves and lab coat with long sleeves	Type II face mask and eye protection	Type I face mask for the patient	FFP3/FFP2 respirator and eye protection
Distance from the patient's head	Lab coat: fluid resistant or fluid proof lab coat or apron with long sleeves.	Eye protection: visor, googles, or full face shield		Eye protection: visor, googles, or full face shield
> 2 m from the patient with no contact with equipment, surfaces etc. (e.g. conversation or visitation/evaluation)	No	No	No	No
> 2 m from the patient but with contact to equipment, surfaces etc.	Yes	No	No	No
< 2 m from the patient, care-taking, examination- or treatment tasks	Yes	Yes	No	No
< 2 m from the patient with respiratory procedures with low-risk of aerosol generation* (throat swab, medication by nebulizer, low-flow nasal oxygen/atmospheric air, Lomholt humidifier, lung physiotherapy incl. PEP-flute, lung function test, examination and treatment of dysphagic patients)	Yes	Yes	No	No
< 2 m from the patient with respiratory procedures with high-risk of aerosol generation (intubation and extubation, manual ventilation, laryngeal mask, short-term ventilator weaning, cardiopulmonary resuscitation (Note: situations with use of only cardiac massage and defibrillator is not included), CPAP, NIV, BiPAP, tracheal suction (open system), high-flow oxygen therapy (flow rate 30-60 l/min), high frequency oscillatory ventilation (HFOV), tracheostomy and tracheostomy procedures, induced sputum and bronchoscopy, surgery and post-mortem procedures in airways with use of high-speed rotating equipment)	Yes	No	No	Yes
Transportation without direct contact, the patient wearing a mask	No	No	Yes	No
Transportation with direct patient contact	Yes	Yes	Yes If possible, to minimize contamination to surroundings	No

From AUH e-Dok COVID-19. Infection control precautions, regional guideline. December 4, 2020

Table S1. Incidence rate ratios of SARS-CoV-2 infection by population characteristics

Characteristic	Person-days	Positive SARS-CoV-2 PCR tests	Infection rate per 100 000 person- days	Incidence rate ratio (95% CI)*
Sex				
Women	458 636	140	3.1	0.89 (0.55 to 1.44)
Men	55 529	19	3.4	Reference
Age (per year)	514 165	159	3.1	0.99 (0.98 to 1.00)
Geographical area				
West	87 223	30	3.4	1.27 (0.74 to 2.18)
Central	55 694	22	4.0	1.46 (0.82 to 2.61)
East	282 321	83	2.9	1.09 (0.69 to 1.71)
General	88 779	24	2.7	Reference
Month				
November	16 208	8	4.9	Reference
December	138 941	73	5.3	1.06 (0.51 to 2.21)
January	138 446	61	4.4	0.89 (0.43 to 1.87)
February	88 395	9	1.0	0.21 (0.08 to 0.53)
March	73 920	5	0.7	0.14 (0.04 to 0.42)
April	58 255	3	0.5	0.10 (0.03 to 0.39)
PCR tests 1 to 2 days earlier				
0	442 978	141	3.2	Reference
1	70 916	18	2.5	0.80 (0.49 to 1.30)
2	271	0	-	-
PCR tests 3 to 7 days earlier				
0	349 800	91	2.6	Reference
1	156 388	58	3.7	1.43 (1.03 to 1.98)
≥ 2	7977	10	12.5	4.82 (2.51 to 9.26)
PCR tests ≥ 8 days earlier				
0	54 991	14	2.5	Reference
1- 4	227 196	83	3.7	1.43 (0.81 to 2.53)
5 – 9	151 419	53	3.5	1.37 (0.76 to 2.48)
≥10	80 559	9	1.1	0.44 (0.19 to 1.01)
Department				
Emergency	11 922	4	3.4	1.38 (0.48 to 4.00)
Medicine	130 099	54	4.2	1.71 (1.05 to 2.79)
Surgery	89 439	24	2.7	1.11 (0.62 to 1.96)
Biochemistry	42 232	15	3.6	1.46 (0.76 to 2.81)
Service	7160	3	4.2	1.73 (0.52 to 5.75)

Anaesthesiology	19 446	5	2.6	1.06 (0.40 to 2.79)
Radiology and Nuclear Medicine	23 074	8	3.5	1.43 (0.64 to 3.19)
Psychiatry	62 987	15	2.4	0.98 (0.51 to 1.88)
Departments with less frequent patient contact	94 785	23	2.4	Reference
Other	32 873	8	2.4	1.00 (0.45 to 2.24)
Occupation				
Nursing staff	194 191	78	4.0	1.94 (1.08 to 3.49)
Medical doctors	46 666	17	3.6	1.76 (0.85 to 3.62)
Biomedical laboratory	40 055	12	3.0	1.45 (0.66 to 3.17)
Medical secretaries	62 718	13	2.1	Reference
Other	170 387	39	2.3	1.10 (0.59 to 2.07)
Smoking				
Current smoker	28 449	8	2.8	0.99 (0.48 to 2.04)
Previous smoker	150 071	55	3.7	1.29 (0.93 to 1.80)
Never smoker	331 795	94	2.8	Reference
BMI (kg/m2)				
<20	34 027	8	2.4	0.78 (0.38 to 1.63)
20 to 24	240 220	72	3.0	Reference
25 to 29	154 013	48	3.1	1.04 (0.72 to 1.50)
≥ 30	81 850	29	3.5	1.18 (0.77 to 1.82)
Hay fever				
No	409 242	130	3.2	Reference
Yes	104 923	29	2.8	0.87 (0.58 to 1.30)
Asthma				
No	477 838	145	3.0	Reference
Yes	36 327	14	3.9	1.27 (0.73 to 2.20)
COPD				
No	510 886	158	3.1	Reference
Yes	3279	1	3.0	0.99 (0.14 to 7.04)

Table S2. Day-by-day non-compliance (%) with personal protective guidelines by procedures

Consultations (n= 63 263)	Procedures with physical contact (n=68 313)	Respiratory procedures (n=10 552)	Surgical procedures or deliveries (n=8753)	Transportation of patients (n=3601)	Other tasks within 2 meters from patients (N=20 401)	Cleaning of patient rooms (n=12 530)	Total (N=187 413)
1.6	2.3	4.8	1.9	0.7	1.7	0.6	2.0

Table S3. Close contact 3-7 days earlier with patients, co-workers and persons outside work with COVID-19 and incidence rate ratios of SARS-CoV-2 infection including only COVID-19 contact information obtained before PCR test results were available

Contact with person	Person-	Positive	Infection rates per		Incidence rate	ratio (95% CI)	
with COVID-19	days*	SARS-CoV- 2 PCR tests	100 000 person- days	Model 1 [†]	Model 2 [‡]	Model 3§	Model 4¶
Patients							
No contact	489 009	120	24.5	Reference	Reference	Reference	Reference
Contact	25 164	39	155.0	6.32 (4.40 to 9.06)	4.65 (3.22 to 6.70)	4.23 (2.93 to 6.12)	3.52 (2.41 - 5.13)
Persons outside work							
No contact	512 069	144	28.1	Reference	Reference	Reference	Reference
Contact	2104	15	712.9	25.35 (14.90 to 43.15)	18.31 (10.70 to 31.33)	15.11 (8.80 to 25.96)	14.19 (8.27 - 24.33)

^{*}The total number of person-days is increased by 8 compared with table 3. This represents the net effect of i. an increase in person-days with missing information on contact with patients and persons outside work with COVID-19 because of the restriction in contact information and ii. a reduction in person-days with missing information because contact with co-workers with COVID-19 was not included in the models.

[†]Crude model

[‡] Adjusted for age (continuous), sex and month (6 categories, November 2020-April 2021)

[§]As model 2 and additionally adjusted for the other types of COVID-19 contact

[¶] As model 3 and additionally adjusted for number of previous PCR tests

Hospital description

There are six general hospitals with more than 1000 employees and one university hospital in the Central Denmark Region. 1) Herning and Holstebro Regional Hospitals serving the western part of the region, Regional Hospital West Jutland (389 beds, 286 439 inhabitants), 2) Viborg and Silkeborg Regional Hospitals serving the central part, Regional Hospital Central Jutland (399 beds, 236 798 inhabitants), and 3) Randers Regional Hospital (359 beds, 226 253 inhabitants), Horsens Regional Hospital (235 beds, 223 210 inhabitants), and Aarhus University Hospital (854 beds, 353 640 inhabitants) servicing the eastern part. Smaller hospitals in the region are not mentioned by name.

The "COBRA wave 2" questionnaire

e. Fever

COVID-19 among health care workers in Denmark (in Danish: COVID-19 blandt Regionsansatte (COBRA))

The questionnaire includes a baseline questionnaire filled in only once and a daily questionnaire focusing on the last 24 hours. Data collection started November 17 2020, corresponding to the start of the second wave of COVID-19 in Denmark, and is expected to end June 30, 2021.

Participants filled in their responses on their smartphone or computer. Every afternoon they received a message with a link to the questionnaire available at REDCap electronic data capture software.

The questionnaire data can be linked by the participants' personal ID-numbers with SARS-CoV-2 PCR test results and other register data, including COVID-19 vaccination status.

Baseline questions	
1) Have you been vaccinated against influenza in autumn 2020?	

Baseline questions
1) Have you been vaccinated against influenza in autumn 2020?
a. Yes
b. No
2) Do you smoke?
a. Yes
b. No – but former smoker
b. No – I have never smoked
3) Do you suffer from any of the following conditions (More tics if relevant)
a. Hay fever
b. Asthma
c. Chronic obstructive pulmonary disease (COPD)
d. No
4) What is your height:
5) What is your weight:
Daily questions
1) Have you had one or more of the following symptoms within the last 24 hours? (More tics if relevant)
a. None of these
b. Running or blocked nose
c. Cough
d. Sore throat
e. Dyspnea
c. Headache

- f. Diarrhea or stomach pain
- g. Reduced or lost sense of taste and smell
- h. Unusual tiredness
- i. Chest pain
- j. Problems with concentration or memory problems
- h. Sadness or despair
- 2) Have you been in close contact (<1 meter) with persons outside your household for more than 15 consecutive minutes within the last 24 hours, with or without using personal protective equipment (More tics if relevant)
 - a. No I have only been close to people in my household
 - b. Yes colleagues at work
 - c. Yes patients/relatives at work
 - d. Yes physical exercise, sports, or society's work
 - e. Yes private social intercourse
 - f. Yes public transportation
 - g. Yes shopping
 - h. Yes leisure activities (e.g. bar, restaurant, museum, cinema
 - i. Yes health or personal services (e.g. dentist, hairdresser)
 - j. Yes other occasions
- 3) Have you been in close contact (<1 meter) with persons tested positive for COVID-19 in the last 24 hours, with or without personal protective equipment
 - a. Yes at work
 - b. Yes other places
 - c. No/don't know
- 4) Have you within the last 24 hours been made aware of, that you have been in close contact (<1 meter) with a person later tested positive for COVID-19 (for example as part of contact tracing)?
 - a. No
 - b. Yes -1-2 days after the close contact
 - c. Yes -3-4 days after the close contact
 - d. Yes 5-6 days after the close contact
 - e. Yes more than 6 days after the close contact

If responses b-e in question 4:

- 4a. Where did the close contact happen? (More tics if relevant)
 - a. At work (the infected person was a colleague)
 - b. At work (the infected person was a patient/relative)
 - c. At physical exercise, sports, or society's work
 - d. At private social intercourse
 - e. In public transportation
 - f. While shopping

g. At leisure activities (e.g. bar, restaurant, museum, cinema	
h. At health or personal services (e.g. dentist, hairdresser)	
j. On other occasions	
j. Don't know	
5) Have you undertaken any of the following tasks within the last 24 hours? (More tics if relevant)	
a. Day off /sick/at home	
b. Self-isolation, quarantine, or sent home as close contact	
c. Consultations with patients within a 2 meters distance	
d. Physical contact with patients (e.g. treatment, examination, personal care, patient transfer)	
e. Surgical procedures or birth giving	
f. Procedures in airways (e.g. CPAP, PEP, intubation or resuscitation)	
g. Patient transport	
h. Other tasks within a 2 meters distance	
i. Preparation of hospital ward or cleaning	
j. I have been at work, but did not engage in any of the mentioned work tasks	
If responses c-i in question 5:	
6) What type of personal protective equipment have you used for the last 24 hours? (More tics if relevant) Handwashing, distance, and use of hand sanitizer should not be included	
a. I have not used personal protective equipment	
b. Gloves	
c. Gown with long sleeves	
d. Plastic apron	
e. High isolation gown	
f. Surgical mask-type IIR	
g. Respirator-type FFP2	
h. Respirator-type FFP3	
i. Respirator-unknown type	
j. Face shield	
k. Surgical mask with shield	
1. Protective glasses	
m. Other protective equipment	
If response m in question 6:	
Please specify what kind of protective equipment:	
If responses b-m in question 6:	
6a) Have there been any accidents with this protective equipment within the last 24 hours? (e.g. broken glove, droppe face shield or respirator)	ed
a. Yes	
b. No	
c. Don't know	

If response a in question 6a:
6b) Which personal protective equipment were involved in the accident? (More tics if relevant)
[Only those PPEs ticked in question 6 are presented for the participant]
a. Gloves
b. Gown with long sleeves
c. Plastic apron
d. High isolation gown
e. Surgical mask-type IIR
f. Respirator-type FFP2
g. Respirator-type FFP3
h. Respirator-unknown type
i. Face shield
j. Surgical mask with shield
k. Protective glasses
l. Other protective equipment
If response l in question 6b:
Please specify what kind of protective equipment:
If response a in question 6a:
6c) During which task did the accident with your protective equipment happen? (More tics if relevant)
[Only the below mentioned tasks ticked in question 5 are presented for the participant]
a. Consultations with patients or relatives within a 2 meters distance
b. Physical contact with patients (e.g. treatment, examination, personal care, patient transfer)
c. Surgical procedures or birth giving
d. Procedures in airways (e.g. CPAP, PEP, intubation or resuscitation)
e. Patient transport
f. Other tasks within a 2 meters distance
g. Preparation of hospital ward or cleaning
If responses f in question 6c:
Describe the task during which you experienced the accident:
If response a in question 6a:
Describe how the accident happened:
If responses c or d in question 5:
6d) Did the accident with personal protective equipment involve subjects under suspicion of COVID-19 or tested positive for COVID-19?
a. No
b. Yes, subjects tested positive for COVID-19
c. Yes, subjects suspected of COVID-19
d. Don't know

If responses c-i in question 5:

7) Has there within the last 24 hours been work situations where you did not use the recommended personal protective equipment?

a. No

a. No
b. Yes
c. Don't know
TC
If response c in question 7:
Please explain why you don't know if you have used the recommended personal protective equipment:
If response b in question 7:
7a) Which recommended personal protective equipment did you not use? (More tics if relevant)
a. Gloves
b. Gown with long sleeves
c. Plastic apron
d. High isolation gown
e. Surgical mask-type IIR
f. Respirator-type FFP2
g. Respirator-type FFP3
h. Respirator-unknown type
i. Face shield
j. Surgical mask with shield
k. Protective glasses
1. Other protective equipment
If response 1 in question 7a:
Please specify what kind of protective equipment:
If response b in question 7:
7b) During which tasks did you not use the recommended personal protective equipment? (More ticks if relevant)
[Only the below mentioned tasks ticked in question 5 are presented for the participant]
a. Consultations with patients within a 2 meter distance
b. Physical contact with patients (e.g. treatment, examination, personal care, patient transfer)
c. Surgical procedures or birth giving
d. Procedures in airways (e.g. CPAP, PEP, intubation or resuscitation)
e. Patient transport
f. Other tasks within a 2 meter distance
g. Preparation of hospital ward or cleaning
If response f in question 7b:

Please specify the other task: _____

If response b or c in question 5 and response b in question 7:
7c) Did you work with subjects under suspicion of or tested positive for COVID-19?
a. No
b. Yes, subjects tested positive for COVID-19
c. Yes, subjects with suspected COVID-19
d. Don't know
If response b in question 7:
7d) What was the reason for not using protective equipment? (More tics if relevant)
a. The patient had a negative COVID-19 test
b. Forgot it
c. The personal protective equipment was not available
d. Did not have time for it
e. To spare equipment
f. Unaware that I should use equipment
g. For better connection with the patient
h. I found it unnecessary
i. Other reason
If response i in question 7d:
Please specify the reason for not using the recommended personal protective equipment:
8) We appreciate your participation in the study. You will receive this questionnaire daily until June 30. Do yo want to stop your participation now, please tic here:
a. I wish to stop now
If response a in question 8a:
8a) If you are sure you want to stop now, please confirm here:
a. Yes, I wish to stop now
b. No, I do not wish to stop now
If response a in question 8a:
8b) We have registered your stop and you will not receive any more text messages. We are sorry that you wish to stop and would appreciate if you let us know the reason:
a. It takes too much time
b. It is too much to answer every day
c. The questions are not relevant to me
d. I do not work for Region Midtjylland anymore
e. Other reason
If response e in question 8b:
Please specify why you wish to stop: