

Verantwoording literatuuronderzoek

Module Mobilisatie

Inhoudsopgave

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Uitgangsvraag

Onder welke voorwaarden mag een geïsoleerde cliënt mobiliseren buiten de eigen kamer?

Methode

Onderzoeksvraag

Om de uitgangsvraag te beantwoorden is een systematische literatuuranalyse verricht. De onderzoeksvraag die hiervoor is onderzocht is PICO-gestructureerd en luidt:

Wat zijn de positieve en negatieve effecten wanneer een cliënt geïsoleerd wordt in de cliëntenkamer?

P	Patients in isolation
I	Staying in own room
C	Not staying in own room
O	Outbreaks, length of hospital stay, adverse events

Relevant outcome measures

The guideline development group considered outbreaks, length of hospital stay and adverse events as a critical outcome measure for decision making.

A priori, the working group did not define the outcome measures listed above but used the definitions used in the studies.

Search and select (Methods)

The databases Medline (via OVID) and Embase (via Embase.com) were searched with relevant search terms until 13-6-2022. The systematic literature search resulted in 1049 hits. Studies were selected based on the following criteria: reporting on mobilization of the patient whilst in isolation. Thirty-seven studies were initially selected based on title and abstract screening. After reading the full text, all studies were excluded, and no studies were included.

Results

Not applicable.

Description of studies

Not applicable

Results

Not applicable

Level of evidence of the literature

Not applicable

Conclusions

no GRADE	No evidence was found regarding the effect of a patient, with an indication for isolation, leaving the room, on transmission, outbreaks, length of hospital stay or adverse events when compared to staying in his own isolation room.
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Bijlage bij Richtlijn SRI Isolatie in de langdurige zorg (www.richtlijnenlangdurigezorg.nl)

Bijlage 1. Table of excluded studies

Reference	Reason for exclusion
Aung MN, Stein C, Chen WT, Garg V, Saraswati Sitepu M, Thu NTD, Gundran CPD, Hassan MR, Suthutvoravut U, Soe AN, Nour M, Gyi KK, Brandl R, Yuasa M. Community responses to COVID-19 pandemic first wave containment measures: a multinational study. J Infect Dev Ctries. 2021 Aug 31;15(8):1107-1116. doi: 10.3855/jidc.15254. PMID: 34516418; PMCID: PMC9218967.	Wrong publication (Exploratory and reflective summary)
Berry D, Wakefield E, Street M, Considine J. Clinical deterioration and hospital-acquired complications in adult patients with isolation precautions for infection control: A systematic review. J Adv Nurs. 2020 Sep;76(9):2235-2252. doi: 10.1111/jan.14435. Epub 2020 Jul 13. PMID: 32449184.	wrong study design (not about isolation patient leaving room)
Birrer M, Perrig M, Hobi F, Gfeller C, Atkinson A, Egger M, Bartholdi C, Aujesky D, Marschall J, Sommerstein R. Droplet precautions on-site (DroPS) during the influenza season 2018/2019: a possible alternative to single room isolation for respiratory viral infections. Antimicrob Resist Infect Control. 2022 Jan 9;11(1):2. doi: 10.1186/s13756-021-01038-y. PMID: 35000584; PMCID: PMC8743058.	Wrong outcome (assessment of droplet precautions)
Camelot G, Boyer AL, Durand JM. Durée d'isolement et levée de la mesure ; étude de l'influence des facteurs anamnestiques et institutionnels [Duration of seclusion and exit of the seclusion room, study of the impact of anamnestic and institutional factors]. Encephale. 2020 Jun;46(3):184-189. French. doi: 10.1016/j.encep.2019.10.005. Epub 2020 Jan 9. PMID: 31928744.	wrong publication (article in French)
El Said Hassan El Sol A., Elhy A.H.A., El-Saidy T.M.K., Elhgry G.M.A.-E., Teima A.A.A., Abed G.A " Comprehensive Nursing Care for COVID-19: It's Effect on Prognosis of Patients with Chronic Diseases." Clin Schizophr Relat Psychoses 15:S7 (2021). 10.3371/CSRP.EAAH.090321	Wrong outcome (LOS, fatigue and depression after routine care)
Elvira KS, Gielen F, Tsai SSH, Nightingale AM. Materials and methods for droplet microfluidic device fabrication. Lab Chip. 2022 Mar 1;22(5):859-875. doi: 10.1039/d1lc00836f. PMID: 35170611; PMCID: PMC9074766.	Does not meet PICO. Study to how microfluidic devices can be fabricated
Fan PEM, Aloweni F, Lim SH, Ang SY, Perera K, Quek AH, Quek HKS, Ayre TC. Needs and concerns of patients	Does not meet PICO. Study regarding key process

in isolation care units - learnings from COVID-19: A reflection. World J Clin Cases. 2020 May 26;8(10):1763-1766. doi: 10.12998/wjcc.v8.i10.1763. PMID: 32518768; PMCID: PMC7262715.	improvements to support patients in isolation.
Firstenberg MS, Libby M, Ochs M, Hanna J, Mangino JE, Forrester J. Isolation protocol for a COVID-2019 patient requiring emergent surgical intervention: case presentation. Patient Saf Surg. 2020 Apr 19;14:15. doi: 10.1186/s13037-020-00243-9. PMID: 32328170; PMCID: PMC7167216.	Wrong study design (Case study)
Graves N, Mitchell BG, Otter JA, Kiernan M. The cost-effectiveness of temporary single-patient rooms to reduce risks of healthcare-associated infection. J Hosp Infect. 2021 Oct;116:21-28. doi: 10.1016/j.jhin.2021.07.003. Epub 2021 Jul 8. PMID: 34246721.	Wrong outcome (A cost-effectiveness of adopting temporary single rooms)
Han RH, Schmidt MN, Waits WM, Bell AKC, Miller TL. Planning for Mental Health Needs During COVID-19. Curr Psychiatry Rep. 2020 Oct 8;22(12):66. doi: 10.1007/s11920-020-01189-6. PMID: 33030637; PMCID: PMC7542088.	Wrong publication (Review)
Hashan MR, Smoll N, King C, Ockenden-Muldoon H, Walker J, Wattiaux A, Graham J, Booy R, Khandaker G. Epidemiology and clinical features of COVID-19 outbreaks in aged care facilities: A systematic review and meta-analysis. EClinicalMedicine. 2021 Mar;33:100771. doi: 10.1016/j.eclinm.2021.100771. Epub 2021 Mar 1. PMID: 33681730; PMCID: PMC7917447.	Wrong outcome (define the epidemiology of COVID-19 outbreaks)
Henssler J, Stock F, van Bohemen J, Walter H, Heinz A, Brandt L. Mental health effects of infection containment strategies: quarantine and isolation-a systematic review and meta-analysis. Eur Arch Psychiatry Clin Neurosci. 2021 Mar;271(2):223-234. doi: 10.1007/s00406-020-01196-x. Epub 2020 Oct 6. PMID: 33025099; PMCID: PMC7538183.	wrong study design (not about isolation patient leaving room)
Imran N, Aamer I, Sharif MI, Bodla ZH, Naveed S. Psychological burden of quarantine in children and adolescents: A rapid systematic review and proposed solutions. Pak J Med Sci. 2020 Jul-Aug;36(5):1106-1116. doi: 10.12669/pjms.36.5.3088. PMID: 32704298; PMCID: PMC7372688.	Does not meet PICO. Impact of quarantine on children and adolescents during disease outbreaks.
Jeong YD, Ejima K, Kim KS, Joohyeon W, Iwanami S, Fujita Y, Jung IH, Shibuya K, Iwami S, Bento AI, Ajelli M. Designing isolation guidelines for COVID-19 patients utilizing rapid antigen tests: a simulation study using viral dynamics models. medRxiv [Preprint]. 2022 Jan 25:2022.01.24.22269769. doi:	wrong publication type (preprint)

10.1101/2022.01.24.22269769. Update in: Nat Commun. 2022 Aug 20;13(1):4910. PMID: 35118478; PMCID: PMC8811911.	
Kang E, Lee SY, Kim MS, Jung H, Kim KH, Kim KN, Park HY, Lee YJ, Cho B, Sohn JH. The Psychological Burden of COVID-19 Stigma: Evaluation of the Mental Health of Isolated Mild Condition COVID-19 Patients. J Korean Med Sci. 2021 Jan 18;36(3):e33. doi: 10.3346/jkms.2021.36.e33. PMID: 33463098; PMCID: PMC7813581.	Wrong study design (Retrospective observational study without control group)
Kang J, Ji E, Kim J, Bae H, Cho E, Kim ES, Shin MJ, Kim HB. Evaluation of Patients' Adverse Events During Contact Isolation for Vancomycin-Resistant Enterococci Using a Matched Cohort Study With Propensity Score. JAMA Netw Open. 2022 Mar 1;5(3):e221865. doi: 10.1001/jamanetworkopen.2022.1865. PMID: 35267031; PMCID: PMC8914578.	wrong study design (not about isolation patient leaving room)
Klompas M, Milton DK, Rhee C, Baker MA, Leekha S. Current Insights Into Respiratory Virus Transmission and Potential Implications for Infection Control Programs : A Narrative Review. Ann Intern Med. 2021 Dec;174(12):1710-1718. doi: 10.7326/M21-2780. Epub 2021 Nov 9. PMID: 34748374.	wrong publication type (Narrative review)
Kramer S, Omonaiye O, Digby R, Berry D, Considine J, Dunning T, Hutchinson AM, Hutchinson A, Manias E, Rasmussen B, Bucknall T. An evaluation of interventions to improve outcomes for hospitalized patients in isolation: A systematic review. Am J Infect Control. 2022 Feb;50(2):193-202. doi: 10.1016/j.ajic.2021.09.002. Epub 2021 Sep 12. PMID: 34525405.	wrong outcome (evaluation of strategies to improve patient outcomes of manage risk in isolation)
Kusumawati MW, Soeharto S, Windarwati HD. Psychosocial Impact and Protective Factor of COVID-19 Confirmed Patient During Isolation Enactment: A Systematic Review. Indian Journal of Forensic Medicine and Toxicology 2022 16:1 (787-799)	better systematic reviews available (search strategy unclear, outcome measures not defined, included case studies)
Mathern R, Senthil P, Vu N, Thiyagarajan T. Neurocognitive Rehabilitation in COVID-19 Patients: A Clinical Review. South Med J. 2022 Mar;115(3):227-231. doi: 10.14423/SMJ.0000000000001371. PMID: 35237843; PMCID: PMC8865030.	wrong outcome (Neurocognitive rehabilitation in COVID-19 patients)
Meade J. Mental Health Effects of the COVID-19 Pandemic on Children and Adolescents: A Review of the Current Research. Pediatr Clin North Am. 2021 Oct;68(5):945-959. doi: 10.1016/j.pcl.2021.05.003. Epub 2021 May 19. PMID: 34538305; PMCID: PMC8445752.	wrong publication (not systematic review)

Multidisciplinary Working Group "ComuniCovid" [Italian Society of Anesthesia and Intensive Care (SIAARTI), Italian Association of Critical Care Nurses (Aniarti), Italian Society of Emergency Medicine (SIMEU), and Italian Society Palliative Care (SICP)]. Come comunicare con i familiari dei pazienti in completo isolamento durante la pandemia da SARS-CoV-2 [How to communicate with families of patients in complete isolation during SARS-CoV-2 pandemic multidisciplinary working group "ComuniCoViD"]. <i>Recenti Prog Med.</i> 2020 Jun;111(6):357-367. Italian. doi: 10.1701/3394.33757. PMID: 32573551.	wrong publication (article in Italian)
Nair R, Perencevich EN, Goto M, Livorsi DJ, Balkenende E, Kiscaden E, Schweizer ML. Patient care experience with utilization of isolation precautions: systematic literature review and meta-analysis. <i>Clin Microbiol Infect.</i> 2020 Jun;26(6):684-695. doi: 10.1016/j.cmi.2020.01.022. Epub 2020 Jan 30. PMID: 32006691; PMCID: PMC7253340.	better systematic reviews available (more outcome measures of interest)
O'Neil A, Nicholls SJ, Redfern J, Brown A, Hare DL. Mental Health and Psychosocial Challenges in the COVID-19 Pandemic: Food for Thought for Cardiovascular Health Care Professionals. <i>Heart Lung Circ.</i> 2020 Jul;29(7):960-963. doi: 10.1016/j.hlc.2020.05.002. Epub 2020 May 21. PMID: 32561126; PMCID: PMC7241365.	wrong publication type (commentary)
Park HC, Lee SH, Kim J, Kim DH, Cho A, Jeon HJ, Oh J, Noh JW, Jeong DW, Kim YG, Lee CH, Yoo KD, Lee YK. Effect of isolation practice on the transmission of middle east respiratory syndrome coronavirus among hemodialysis patients: A 2-year prospective cohort study. <i>Medicine (Baltimore).</i> 2020 Jan;99(3):e18782. doi: 10.1097/MD.00000000000018782. PMID: 32011472; PMCID: PMC7220504.	Wrong outcome (different types of isolation)
Petersen E, Khamis F, Migliori GB, Bay JG, Marais B, Wejse C, Zumla A. De-isolation of patients with pulmonary tuberculosis after start of treatment - clear, unequivocal guidelines are missing. <i>Int J Infect Dis.</i> 2017 Mar;56:34-38. doi: 10.1016/j.ijid.2017.01.029. Epub 2017 Feb 3. PMID: 28163167.	wrong study design (de-isolation after treatment)
Prang P, Schuld C, Rupp R, Hensel C, Weidner N. Influence of patient isolation due to colonization with multidrug-resistant organisms on functional recovery after spinal cord injury. <i>PLoS One.</i> 2021 Mar 26;16(3):e0249295. doi: 10.1371/journal.pone.0249295. PMID: 33770131; PMCID: PMC7997009.	wrong study design (not about isolation patient leaving room)

Pursell E, Gould D, Chudleigh J. Impact of isolation on hospitalised patients who are infectious: systematic review with meta-analysis. BMJ Open. 2020 Feb 18;10(2):e030371. doi: 10.1136/bmjopen-2019-030371. PMID: 32075820; PMCID: PMC7044903.	wrong study design (not about isolation patient leaving room)
Saliba R, Karam-Sarkis D, Zahar JR, Glélé LSA. Adverse events associated with patient isolation: a systematic literature review and meta-analysis. J Hosp Infect. 2022 Jan;119:54-63. doi: 10.1016/j.jhin.2021.09.023. Epub 2021 Oct 16. PMID: 34666116.	wrong study design (not about isolation patient leaving room)
Sharma A, Pillai DR, Lu M, Doolan C, Leal J, Kim J, Hollis A. Impact of isolation precautions on quality of life: a meta-analysis. J Hosp Infect. 2020 May;105(1):35-42. doi: 10.1016/j.jhin.2020.02.004. Epub 2020 Feb 12. PMID: 32059996.	wrong study design (not about isolation patient leaving room)
Strong JD, Reiter K, Gonzalez G, Tublitz R, Augustine D, Barragan M, Chesnut K, Dashtgard P, Pifer N, Blair TR. The body in isolation: The physical health impacts of incarceration in solitary confinement. PLoS One. 2020 Oct 9;15(10):e0238510. doi: 10.1371/journal.pone.0238510. PMID: 33035215; PMCID: PMC7546459.	wrong population (prisoners)
Thompson P, Teter J, Atrubin K. Incidence of health care-associated extended-spectrum β -lactamase-positive patients before and after discontinuation of contact precautions. Am J Infect Control. 2020 Jan;48(1):52-55. doi: 10.1016/j.ajic.2019.06.016. Epub 2019 Jul 27. PMID: 31358415.	Does not meet PICO. Outcome: incidence rates of healthcare-associated ESBL organisms before and after eliminating the use of contact precautions.
van Dijk MD, Voor In 't Holt AF, Polinder S, Severin JA, Vos MC. The daily direct costs of isolating patients identified with highly resistant micro-organisms in a non-outbreak setting. J Hosp Infect. 2021 Mar;109:88-95. doi: 10.1016/j.jhin.2020.12.013. Epub 2020 Dec 24. PMID: 33359899.	Does not meet PICO. Observational study on daily direct costs of isolating a patient differ per type of isolation.
Viperman A, Zimmerman S, Sloane PD. COVID-19 Recommendations for Assisted Living: Implications for the Future. J Am Med Dir Assoc. 2021 May;22(5):933-938.e5. doi: 10.1016/j.jamda.2021.02.021. Epub 2021 Feb 25. PMID: 33773962; PMCID: PMC7904515.	wrong publication (not systematic review)
Voo TC, Lederman Z, Kaur S. Patient Isolation during Infectious Disease Outbreaks: Arguments for Physical Family Presence. Public Health Ethics. 2020 Oct 9;13(2):133-142. doi: 10.1093/phe/phaa024. PMID: 33294029; PMCID: PMC7700794.	wrong outcome (Arguments for physical family presence)
Walker KF, O'Donoghue K, Grace N, Dorling J, Comeau JL, Li W, Thornton JG. Maternal transmission of SARS-	wrong outcome (maternal transmission of SARS-CoV-2)

COV-2 to the neonate, and possible routes for such transmission: a systematic review and critical analysis. BJOG. 2020 Oct;127(11):1324-1336. doi: 10.1111/1471-0528.16362. Epub 2020 Jul 22. PMID: 32531146; PMCID: PMC7323034.	
Woong NL, Ekstrom VSM, Xin X, Lim C, Boon ESK, Teo SWJ, Ng PCS, Ang TPS, Lim SH, Lam AYR, Fan EMP, Ang SY, Chow WC. Empower to connect and connect to empower: experience in using a humanistic approach to improve patients' access to, and experience of, care in isolation wards during the COVID-19 outbreak in Singapore. BMJ Open Qual. 2021 Jan;10(1):e000996. doi: 10.1136/bmjopen-2020-000996. PMID: 33408099; PMCID: PMC7789203.	wrong study design (Quality improvement study: technology to improve patients' access to, and experience of, care while in isolation)