Supplementary Table S1. Studies included vs. excluded with reasons for exclusion for each study

1	Niu J, Shen L, Huang B, Ye F, Zhao L, Wang H, Deng Y, Tan W. Non-invasive bioluminescence imaging of HCoV-OC43 infection and therapy in the central nervous system of live mice. Antiviral Res. 2020;173:104646. doi: 10.1016/j.antiviral.2019.104646. Epub 2019 Nov 6.	Animal
2	Takyu S, Ahmed AM, Yoshida E, Tashima H, Kumagai M, Yamashita T, Yamaya T. Design study of a brain-dedicated time-of-flight PET system with a hemispherical detector arrangement. Phys Med Biol. 2020;65(3):035012. doi: 10.1088/1361-6560/ab63ee.	No COVID-19
3	Andica C, Kamagata K, Hayashi T, Hagiwara A, Uchida W, Saito Y, Kamiya K, Fujita S, Akashi T, Wada A, Abe M, Kusahara H, Hori M, Aoki S. Scan-rescan and inter-vendor reproducibility of neurite orientation dispersion and density imaging metrics. Neuroradiology. 2020;62(4):483-494. doi: 10.1007/s00234-019-02350-6. Epub 2019 Dec 27.	No COVID-19
4	Olaseni AO, Akinsola OS, Agberotimi SF, Oguntayo R. Psychological distress experiences of Nigerians during Covid-19 pandemic; the gender difference. Soc Sci Humanit Open. 2020;2(1):100052. doi: 10.1016/j.ssaho.2020.100052. Epub 2020 Aug 26.	Unfocused
5	Jung H, Jung SY, Lee MH, Kim MS. Assessing the presence of post-traumatic stress and turnover intention among nurses post-Middle East Respiratory Syndrome outbreak: The importance of supervisor support. Workplace Health Saf. 2020 Jul;68(7):337-345. doi: 10.1177/2165079919897693. Epub 2020 Mar 9.	Unfocused
6	Poyiadji N, Shahin G, Noujaim D, Stone M, Patel S, Griffith B. COVID-19-associated acute hemorrhagic necrotizing encephalopathy: Imaging features. Radiology. 2020;296(2):E119-E120. doi: 10.1148/radiol.2020201187. Epub 2020 Mar 31.	Case
7	Galougahi MK, Ghorbani J, Bakhshayeshkaram M, Naeini AS, Haseli S. Olfactory bulb magnetic resonance imaging in SARS-CoV-2-induced anosmia: The first report. Acad Radiol. 2020;27(6):892-893. doi: 10.1016/j.acra.2020.04.002. Epub 2020 Apr 11.	Case
8	Chevance A, Gourion D, Hoertel N, Llorca PM, Thomas P, Bocher R, Moro MR, Laprévote V, Benyamina A, Fossati P, Masson M, Leaune E, Leboyer M, Gaillard R. Assurer les soins aux patients souffrant de troubles psychiques en France pendant l'épidémie à SARS-CoV-2 [Ensuring mental health care during the SARS-CoV-2 epidemic in France: A narrative review]. Encéphale. 2020;46(3S):S3-S13. doi: 10.1016/j.encep.2020.03.001. Epub 2020 Apr 2.	Review
9	Chevance A, Gourion D, Hoertel N, Llorca PM, Thomas P, Bocher R, Moro MR, Laprévote V, Benyamina A, Fossati P, Masson M, Leaune E, Leboyer M, Gaillard R. Ensuring mental health care during the SARS-CoV-2 epidemic in France: A narrative review. Encéphale. 2020;46(3):193-201. doi: 10.1016/j.encep.2020.04.005. Epub 2020 Apr 22.	Review
10	El-Hage W, Hingray C, Lemogne C, Yrondi A, Brunault P, Bienvenu T, Etain B, Paquet C, Gohier B, Bennabi D, Birmes P, Sauvaget A, Fakra E, Prieto N, Bulteau S, Vidailhet P, Camus V, Leboyer M, Krebs MO, Aouizerate B. Les professionnels de santé face à la pandémie de la maladie à coronavirus (COVID-19) : quels risques pour leur santé mentale ? [Health professionals facing the coronavirus disease 2019 (COVID-19) pandemic: What are the mental health risks?]. Encéphale. 2020;46(3S):S73-S80. doi: 10.1016/j.encep.2020.04.008. Epub 2020 Apr 22.	Review
11	Guo Q, Zheng Y, Shi J, Wang J, Li G, Li C, Fromson JA, Xu Y, Liu X, Xu H, Zhang T, Lu Y, Chen X, Hu H, Tang Y, Yang S, Zhou H, Wang X, Chen H, Wang Z, Yang Z. Immediate psychological distress in quarantined patients with COVID-19 and its association with peripheral inflammation: A mixed-method study. Brain Behav Immun. 2020;88:17-27. doi: 10.1016/j.bbi.2020.05.038. Epub 2020 May 19.	Unrelated
12	Ogier M, Andéol G, Sagui E, Dal Bo G. How to detect and track chronic neurologic sequelae of COVID-19? Use of auditory brainstem responses and neuroimaging for long-term patient follow-up. Brain Behav Immun Health. 2020;5:100081. doi: 10.1016/j.bbih.2020.100081. Epub 2020 May 15.	Review
13	Mahammedi A, Saba L, Vagal A, Leali M, Rossi A, Gaskill M, Sengupta S, Zhang B, Carriero A, Bachir S, Crivelli P, Paschè A, Premi E, Padovani A, Gasparotti R. Imaging of neurologic disease in hospitalized patients with COVID-19: An Italian multicenter retrospective observational study. Radiology. 2020;297(2):E270-E273. doi: 10.1148/radiol.2020201933. Epub 2020 May 21.	Unsuitable
14	Md Noh MSF. Brain imaging findings in COVID-19: What do we know so far? J Neuroradiol. 2020;47(5):329-330. doi: 10.1016/j.neurad.2020.05.004. Epub 2020 May 19.	Review
15	Jain R, Young M, Dogra S, Kennedy H, Nguyen V, Jones S, Bilaloglu S, Hochman K, Raz E, Galetta S, Horwtiz L. COVID-19 related neuroimaging findings: A signal of thromboembolic complications and a strong prognostic marker of poor patient outcome. J Neurol Sci. 2020;414:116923. doi: 10.1016/j.jns.2020.116923. Epub 2020 May 19.	Unsuitable
16	Radmanesh A, Raz E, Zan E, Derman A, Kaminetzky M. Brain imaging use and findings in COVID-19: A single academic center experience in the epicenter of disease in the United States. AJNR Am J Neuroradiol. 2020;41(7):1179-1183. doi: 10.3174/ajnr.A6610. Epub 2020 May 28.	Unsuitable
17	Politi LS, Salsano E, Grimaldi M. Magnetic Resonance Imaging Alteration of the Brain in a Patient With Coronavirus Disease 2019 (COVID-19) and Anosmia. JAMA Neurol. 2020;77(8):1028-1029. doi: 10.1001/jamaneurol.2020.2125.	Case
18	Qi R, Chen W, Liu S, Thompson PM, Zhang LJ, Xia F, Cheng F, Hong A, Surento W, Luo S, Sun ZY, Zhou CS, Li L, Jiang X, Lu GM. Psychological morbidities and fatigue in patients with confirmed COVID-19 during disease outbreak: prevalence and associated biopsychosocial risk factors. medRxiv. 2020 May 11:2020.05.08.20031666. doi: 10.1101/2020.05.08.20031666. Preprint.	Unfocused
19	Tang W, Hu T, Yang L, Xu J. The role of alexithymia in the mental health problems of home-quarantined university students during the COVID-19 pandemic in China. Pers Individ Dif. 2020;165:110131. doi: 10.1016/j.paid.2020.110131. Epub 2020 Jun 5.	Unrelated
20	Nicholson P, Alshafai L, Krings T. Neuroimaging findings in patients with COVID-19. AJNR Am J Neuroradiol. 2020;41(8):1380-1383. doi: 10.3174/ajnr.A6630. Epub 2020 Jun 11.	Case
21	Katal S, Balakrishnan S, Gholamrezanezhad A. Neuroimaging and neurologic findings in COVID-19 and other coronavirus infections: A systematic review in 116 patients. J Neuroradiol. 2021;48(1):43-50. doi: 10.1016/j.neurad.2020.06.007. Epub 2020 Jun 27.	Review
22	Hernández-Fernández F, Sandoval Valencia H, Barbella-Aponte RA, Collado-Jiménez R, Ayo-Martín Ó, Barrena C, Molina-Nuevo JD, García-García J, Lozano-Setién E, Alcahut-Rodriguez C, Martínez-Martín Á, Sánchez-López A, Segura T. Cerebrovascular disease in patients with COVID-19: neuroimaging, histological and clinical description. Brain. 2020 Oct 1;143(10):3089-3103. doi: 10.1093/brain/awaa239.	Unfocused
23	Elhai JD, Yang H, McKay D, Asmundson GJG. COVID-19 anxiety symptoms associated with problematic smartphone use severity in Chinese adults. J Affect Disord. 2020;274:576-582. doi: 10.1016/j.jad.2020.05.080. Epub 2020 May 27.	Unfocused
24	Soldatelli MD, Amaral LFD, Veiga VC, Rojas SSO, Omar S, Marussi VHR. Neurovascular and perfusion imaging findings in coronavirus disease 2019: Case report and literature review.Neuroradiol J. 2020;33(5):368-373. doi: 10.1177/1971400920941652. Epub 2020 Jul 15.	Review
25	Kremer S, Lersy F, Anheim M, Merdji H, Schenck M, Oesterlé H, Bolognini F, Messie J, Khalil A, Gaudemer A, Carré S, Alleg M, Lecocq C, Schmitt E, Anxionnat R, Zhu F, Jager L, Nesser P, Mba YT, Hmeydia G, Benzakoun J, Oppenheim C, Ferré JC, Maamar A, Carsin-Nicol B, Comby PO, Ricolfi F, Thouant P, Boutet C, Fabre X, Forestier G, de Beaurepaire I, Bornet G, Desal H, Boulouis G, Berge J, Kazémi A, Pyatigorskaya N, Lecler A, Saleme S, Edjlali-Goujon M, Kerleroux B, Constans JM, Zorn PE, Mathieu M, Baloglu S, Ardellier FD, Willaume T, Brisset JC, Caillard S, Collange O, Mertes PM, Schneider F, Fafi-Kremer S, Ohana M, Meziani F, Meyer N, Helms J, Cotton F. Neurologic and neuroimaging findings in patients with COVID-19: A retrospective multicenter study. Neurology. 2020;95(13):e1868-e1882. doi: 10.1212/WNL.0000000000010112. Epub 2020 Jul 17.	**Included**
26	Argirò R, Cirelli C, Sgreccia A, Del Sette B, Da Ros V. Cerebral hemorrhage related to vein thrombosis in Covid-19 patients in different Italian hospitals: View point for clinical and imaging implications. J Neurol Sci. 2020;416:117023. doi: 10.1016/j.jns.2020.117023. Epub 2020 Jul 10.	Opinion

27	Caballeros Lam M, de la Fuente Villena A, Hernández Hernández A, García de Yébenes M, Bastarrika Alemañ G. Cardiac magnetic resonance characterization of COVID-19 myocarditis. Rev Esp Cardiol (Engl Ed). 2020;73(10):863-864. doi: 10.1016/j.rec.2020.06.018. Epub 2020 Jul 4.	Unfocused
28	Grimaldi S, Lagarde S, Harlé JR, Boucraut J, Guedj E. Autoimmune encephalitis concomitant with SARS-CoV-2 infection: Insight from ^{18}F-FDG PET imaging and neuronal autoantibodies. J Nucl Med. 2020;61(12):1726-1729. doi: 10.2967/jnumed.120.249292. Epub 2020 Jul 24.	Case
29	Guedj E, Million M, Dudouet P, Tissot-Dupont H, Bregeon F, Cammilleri S, Raoult D. ^{18}F-FDG brain PET hypometabolism in post-SARS-CoV-2 infection: substrate for persistent/delayed disorders? Eur J Nucl Med Mol Imaging. 2021;48(2):592-595. doi: 10.1007/s00259-020-04973-x. Epub 2020 Jul 30.	Case
30	Klironomos S, Tzortzakakis A, Kits A, Öhberg C, Kollia E, Ahoromazdae A, Almqvist H, Aspelin Å, Martin H, Ouellette R, Al-Saadi J, Hasselberg M, Haghgou M, Pedersen M, Petersson S, Finnsson J, Lundberg J, Falk Delgado A, Granberg T. Nervous system involvement in Coronavirus Disease 2019: Results from a retrospective consecutive neuroimaging cohort. Radiology. 2020;297(3):E324-E334. doi: 10.1148/radiol.2020202791. Epub 2020 Jul 30.	**Included**
31	Chetrit A, Lechien JR, Ammar A, Chekkoury-Idrissi Y, Distinguin L, Circiu M, Saussez S, Ballester MC, Vasse M, Berradja N, Hans S, Carlier R, Edjlali M. Magnetic resonance imaging of COVID-19 anosmic patients reveals abnormalities of the olfactory bulb: Preliminary prospective study. J Infect. 2020;81(5):816-846. doi: 10.1016/j.jinf.2020.07.028. Epub 2020 Jul 30.	Case
32	O'Shea A, Parakh A, Hedgire S, Lee SI. Multisystem assessment of the imaging manifestations of coagulopathy in hospitalized patients with coronavirus disease (COVID-19). AJR Am J Roentgenol. 2021;216(4):1088-1098. doi: 10.2214/AJR.20.24132. Epub 2021 Feb 3.	**Included**
33	Halsey R, Priftakis D, Mackenzie S, Wan S, Davis LM, Lilburn D, Thornton A, Papathanasiou N, Gnanasegaran G, Bomanji J. COVID-19 in the act: incidental ^{18}F-FDG PET/CT findings in asymptomatic patients and those with symptoms not primarily correlated with COVID-19 during the United Kingdom coronavirus lockdown. Eur J Nucl Med Mol Imaging. 2021;48(1):269-281. doi: 10.1007/s00259-020-04972-y. Epub 2020 Aug 5.	Unfocused
34	Nawabi J, Morotti A, Wildgruber M, Boulouis G, Kraehling H, Schlunk F, Can E, Kniep H, Thomalla G, Psychogios M, Hamm B, Fiehler J, Hanning U, Sporns P. Clinical and imaging characteristics in patients with SARS-CoV-2 infection and acute intracranial hemorrhage. J Clin Med. 2020;9(8):2543. doi: 10.3390/jcm9082543. Online 2020 Aug 6	Unfocused
35	Nicholson P, Gao M, Radovanovic I, Mendes-Pereira V, Hodaie M, Pikula A, Krings T. Not a string, not a tangle, not an aneurysm: Emerging pattern of large parenchymal bleeding in younger patients associated with abnormal vessels on imaging. Clin Neuroradiol. 2021;31(3):653-659. doi: 10.1007/s00062-020-00944-9. Epub 2020 Aug 19.	No COVID-19
36	Escalard S, Chalumeau V, Escalard C, Redjem H, Delvoye F, Hébert S, Smajda S, Ciccio G, Desilles JP, Mazighi M, Blanc R, Maïer B, Piotin M. Early brain imaging shows increased severity of acute ischemic strokes with large vessel occlusion in COVID-19 patients. Stroke. 2020;51(11):3366-3370. doi: 10.1161/STROKEAHA.120.031011. Epub 2020 Aug 19.	Unfocused
37	Kihira S, Delman BN, Belani P, Stein L, Aggarwal A, Rigney B, Schefflein J, Doshi AH, Pawha PS. Imaging Features of Acute Encephalopathy in Patients with COVID-19: A Case Series. AJNR Am J Neuroradiol. 2020;41(10):1804-1808. doi: 10.3174/ajnr.A6715. Epub 2020 Aug 13.	Case
38	Afolabi BI, Idowu BM, Onigbinde SO. Multimodality imaging of coronavirus disease 2019 (COVID-19): a pictorial essay. Pol J Radiol. 2020;85:e387-e393. doi: 10.5114/pjr.2020.97957. eCollection 2020 Jul 30.	Review
39	Dhillon PS, Pointon K, Lenthall R, Nair S, Subramanian G, McConachie N, Izzath W. Regional mechanical thrombectomy imaging protocol in patients presenting with acute ischemic stroke during the COVID-19 pandemic. AJNR Am J Neuroradiol. 2020;41(10):1849-1855. doi: 10.3174/ajnr.A6754. Epub 2020 Aug 20.	Unsuitable
40	Lin E, Lantos JE, Strauss SB, Phillips CD, Campion TR Jr, Navi BB, Parikh NS, Merkler AE, Mir S, Zhang C, Kamel H, Cusick M, Goyal P, Gupta A. Brain imaging of patients with COVID-19: Findings at an academic institution during the height of the outbreak in New York City. AJNR Am J Neuroradiol. 2020;41(11):2001-2008. doi: 10.3174/ajnr.A6793. Epub 2020 Aug 20.	**Included**
41	Goh GX, Tan K, Ang BSP, Wang LF, Tchoyoson Lim CC. Neuroimaging in zoonotic outbreaks affecting the central nervous system: Are we fighting the last war? AJNR Am J Neuroradiol. 2020;41(10):1760-1767. doi: 10.3174/ajnr.A6727. Epub 2020 Aug 20.	Review
42	Mohammad LM, Botros JA, Chohan MO. Necessity of brain imaging in COVID-19 infected patients presenting with acute neurological deficits. Interdiscip Neurosurg. 2020;22:100883. doi: 10.1016/j.inat.2020.100883. Epub 2020 Aug 13.	Case
43	Cheng P, Xu LZ, Zheng WH, Ng RMK, Zhang L, Li LJ, Li WH. Psychometric property study of the posttraumatic stress disorder checklist for DSM-5 (PCL-5) in Chinese healthcare workers during the outbreak of corona virus disease 2019. J Affect Disord. 2020;277:368-374. doi: 10.1016/j.jad.2020.08.038. Epub 2020 Aug 23.	Unfocused
44	Hagerty SL, Wielgosz J, Kraemer J, Nguyen HV, Loew D, Kaysen D. Best practices for approaching cognitive processing therapy and prolonged exposure during the COVID-19 pandemic. J Trauma Stress. 2020;33(5):623-633. doi: 10.1002/jts.22583. Epub 2020 Aug 31.	Unrelated
45	Delorme C, Paccoud O, Kas A, Hesters A, Bombois S, Shambrook P, Boullet A, Doukhi D, Le Guennec L, Godefroy N, Maatoug R, Fossati P, Millet B, Navarro V, Bruneteau G, Demeret S, Pourcher V; CoCo-Neurosciences study group and COVID SMIT PSL study group. COVID-19-related encephalopathy: a case series with brain FDG-positron-emission tomography/computed tomography findings. Eur J Neurol. 2020;27(12):2651-2657. doi: 10.1111/ene.14478. Epub 2020 Sep 22.	Case
46	Yiannakas MC, Schneider T, Yoneyama M, Aforlabi-Logoh I, Prados F, Ciccarelli O, Wheeler-Kingshott CAM. Magnetisation transfer ratio combined with magnetic resonance neurography is feasible in the proximal lumbar plexus using healthy volunteers at 3T. Sci Rep. 2020;10(1):14568. doi: 10.1038/s41598-020-71570-1. Online 2020 Sep 3.	No COVID-19
47	Martínez-Barbero JP, Tomás-Muñoz P, Martínez-Moreno R. Relevance of neuroimaging in publications on COVID-19 and stroke. Neurologia (Engl Ed). 2020;35(9):709-710. doi: 10.1016/j.nrl.2020.07.002. Epub 2020 Jul 22.	Review
48	Sheth KN, Mazurek MH, Yuen MM, Cahn BA, Shah JT, Ward A, Kim JA, Gilmore EJ, Falcone GJ, Petersen N, Gobeske KT, Kaddouh F, Hwang DY, Schindler J, Sansing L, Matouk C, Rothberg J, Sze G, Siner J, Rosen MS, Spudich S, Kimberly WT. Assessment of brain injury using portable, low-field magnetic resonance imaging at the bedside of critically ill patients. JAMA Neurol.2020;78(1):41-7. doi: 10.1001/jamaneurol.2020.3263. Online ahead of print 2020 Sep 8.	Unsuitable
49	Yoon BC, Buch K, Lang M, Applewhite BP, Li MD, Mehan WA Jr, Leslie-Mazwi TM, Rincon SP. Clinical and Neuroimaging Correlation in Patients with COVID-19. AJNR Am J Neuroradiol. 2020;41(10):1791-1796. doi: 10.3174/ajnr.A6717. Epub 2020 Sep 10.	Unsuitable
50	Suri JS, Puvvula A, Biswas M, Majhail M, Saba L, Faa G, Singh IM, Oberleitner R, Turk M, Chadha PS, Johri AM, Sanches JM, Khanna NN, Viskovic K, Mavrogeni S, Laird JR, Pareek G, Miner M, Sobel DW, Balestrieri A, Sfikakis PP, Tsoulfas G, Protogerou A, Misra DP, Agarwal V, Kitas GD, Ahluwalia P, Kolluri R, Teji J, Maini MA, Agbakoba A, Dhanjil SK, Sockalingam M, Saxena A, Nicolaides A, Sharma A, Rathore V, Ajuluchukwu JNA, Fatemi M, Alizad A, Viswanathan V, Krishnan PR, Naidu S. COVID-19 pathways for brain and heart injury in comorbidity patients: A role of medical imaging and artificial intelligence-based COVID severity classification: A review. Comput Biol Med. 2020;124:103960. doi: 10.1016/j.compbiomed.2020.103960. Epub 2020 Aug 14.	Review
51	Cabrera MA, Karamsetty L, Simpson SA. Coronavirus and Its Implications for Psychiatry: A Rapid Review of the Early Literature. Psychosomatics. 2020;61(6):607-615. doi: 10.1016/j.psym.2020.05.018. Epub 2020 May 27.	Review
52	Siddiqui J, Bala F, Sciacca S, Falzon AM, Benger M, Matloob SA, Miller FNAC, Simister RJ, Chatterjee I, Sztriha LK, Davagnanam I, Booth TC. COVID-19 stroke apical lung examination study: A diagnostic and prognostic imaging biomarker in suspected acute stroke. AJNR Am J Neuroradiol. 2021;42(1):138-143. doi: 10.3174/ajnr.A6832. Epub 2020 Sep 17.	Unfocused

53	van Herpen MM, Boeschoten MA, Te Brake H, van der Aa N, Olff M. Mobile insight in risk, resilience, and online referral (MIRROR): Psychometric evaluation of an online self-help test. J Med Internet Res. 2020;22(9):e19716. doi: 10.2196/19716.	Unrelated
54	Naval-Baudin P, Rodriguez Caamaño I, Rubio-Maicas C, Pons-Escoda A, Fernández Viñas MM, Nuñez A, Cardona P, Majos C, Cos M, Calvo N. COVID-19 and ischemic stroke: Clinical and neuroimaging findings. J Neuroimaging. 2021;31(1):62-66. doi: 10.1111/jon.12790. Epub 2020 Sep 28.	Unsuitable
55	Sawlani V, Scotton S, Nader K, Jen JP, Patel M, Gokani K, Denno P, Thaller M, Englezou C, Janjua U, Bowen M, Hoskote C, Veenith T, Hassan-Smith G, Jacob S. COVID-19-related intracranial imaging findings: a large single-centre experience. Clin Radiol. 2021;76(2):108-116. doi: 10.1016/j.crad.2020.09.002. Epub 2020 Sep 15.	**Included**
56	Prasad A, Kataria S, Srivastava S, Lakhani DA, Sriwastava S. Multiple embolic stroke on magnetic resonance imaging of the brain in a COVID-19 case with persistent encephalopathy. Clin Imaging. 2021;69:285-288. doi: 10.1016/j.clinimag.2020.09.010. Epub 2020 Oct 6.	Case
57	Mistraletti G, Gristina G, Mascarin S, Iacobone E, Giubbilo I, Bonfanti S, Fiocca F, Fullin G, Fuselli E, Bocci MG, Mazzon D, Giusti GD, Galazzi A, Negro A, De Iaco F, Gandolfo E, Lamiani G, Del Negro S, Monti L, Salvago F, Di Leo S, Gribaudi MN, Piccinni M, Riccioni L, Giannini A, Livigni S, Maglione C, Vergano M, Marinangeli F, Lovato L, Mezzetti A, Drigo E, Vegni E, Calva S, Aprile A, Losi G, Fontanella L, Calegari G, Ansaloni C, Pugliese FR, Manca S, Orsi L, Moggia F, Scelsi S, Corcione A, Petrini F. How to communicate with families living in complete isolation. BMJ Support Palliat Care. 2020:bmjspcare-2020-002633. doi: 10.1136/bmjspcare-2020-002633. Online ahead of print 2020 Oct 15.	Unrelated
58	Matsubara K, Ibaraki M, Shidahara M, Kinoshita T. Iterative framework for image registration and partial volume correction in brain positron emission tomography. Alzheimer's Disease Neuroimaging Initiative. Radiol Phys Technol. 2020;13(4):348-357. doi: 10.1007/s12194-020-00591-2. Epub 2020 Oct 19.	No COVID-19
59	Hao F, Tam W, Hu X, Tan W, Jiang L, Jiang X, Zhang L, Zhao X, Zou Y, Hu Y, Luo X, McIntyre RS, Quek T, Tran BX, Zhang Z, Pham HQ, Ho CSH, Ho RCM. A quantitative and qualitative study on the neuropsychiatric sequelae of acutely ill COVID-19 inpatients in isolation facilities. Transl Psychiatry. 2020 Oct 19;10(1):355. doi: 10.1038/s41398-020-01039-2.	Unfocused
60	Agarwal S, Conway J, Nguyen V, Dogra S, Krieger P, Zagzag D, Lewis A, Melmed K, Galetta S, Jain R. Serial imaging of virus-associated necrotizing disseminated acute leukoencephalopathy (VANDAL) in COVID-19. AJNR Am J Neuroradiol. 2021;42(2):279-284. doi: 10.3174/ajnr.A6898. Epub 2020 Oct 22.	Unfocused
61	Rut W, Groborz K, Zhang L, Sun X, Zmudzinski M, Pawlik B, Wang X, Jochmans D, Neyts J, Młynarski W, Hilgenfeld R, Drag M. SARS-CoV-2 Mpro inhibitors and activity-based probes for patient-sample imaging. Nat Chem Biol. 2021;17(2):222-228. doi: 10.1038/s41589-020-00689-z. Epub 2020 Oct 22.	Unfocused
62	Kasa LW, Haast RAM, Kuehn TK, Mushtaha FN, Baron CA, Peters T, Khan AR. Evaluating high spatial resolution diffusion kurtosis imaging at 3T: Reproducibility and quality of fit. J Magn Reson Imaging. 2021;53(4):1175-1187. doi: 10.1002/jmri.27408. Epub 2020 Oct 24.	No COVID-19
63	Fan H, Su P, Huang J, Liu P, Lu H. Multi-band MR fingerprinting (MRF) ASL imaging using artificial-neural-network trained with high-fidelity experimental data. Magn Reson Med. 2021 Apr;85(4):1974-1985. doi: 10.1002/mrm.28560. Epub 2020 Oct 26.	No COVID-19
64	Hatipoglu N, Yazici ZM, Palabiyik F, Gulustan F, Sayin I. Olfactory bulb magnetic resonance imaging in SARS-CoV-2-induced anosmia in pediatric cases. Int J Pediatr Otorhinolaryngol. 2020 Dec;139:110469. doi: 10.1016/j.ijporl.2020.110469. Epub 2020 Oct 24.	Case
65	Shor N, Chougar L, Pyatigorskaya N. MR Imaging of the Olfactory Bulbs in Patients with COVID-19 and Anosmia: How to Avoid Misinterpretation. AJNR Am J Neuroradiol. 2021;42(3):E10-E11. doi: 10.3174/ajnr.A6921. Epub 2020 Oct 29.	Case
66	Rapalino O, Weerasekera A, Moum SJ, Eikermann-Haerter K, Edlow BL, Fischer D, Torrado-Carvajal A, Loggia ML, Mukerji SS, Schaefer PW, Gonzalez RG, Lev MH, Ratai EM. Brain MR spectroscopic findings in 3 consecutive patients with COVID-19: Preliminary observations. AJNR Am J Neuroradiol. 2021;42(1):37-41. doi: 10.3174/ajnr.A6877. Epub 2020 Oct 29.	Case
67	Fontana IC, Bongarzone S, Gee A, Souza DO, Zimmer ER. PET imaging as a tool for assessing COVID-19 brain changes. Trends Neurosci. 2020;43(12):935-938. doi: 10.1016/j.tins.2020.10.010. Epub 2020 Oct 22.	Review
68	Revzin MV, Raza S, Srivastava NC, Warshawsky R, D'Agostino C, Malhotra A, Bader AS, Patel RD, Chen K, Kyriakakos C, Pellerito JS. Multisystem imaging manifestations of COVID-19, Part 2: From cardiac complications to pediatric manifestations. Radiographics. 2020;40(7):1866-1892. doi: 10.1148/rg.2020200195.	Unfocused
69	Choi Y, Lee MK. Neuroimaging findings of brain MRI and CT in patients with COVID-19: A systematic review and meta-analysis. Eur J Radiol. 2020;133:109393. doi: 10.1016/j.ejrad.2020.109393. Epub 2020 Nov 3.	Review
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442	Lobanov-Rostovsky S, Kiss L. The mental health and well-being of internally displaced female Yazidis in the Kurdistan Region of Iraq: a realist review of psychosocial interventions and the impact of COVID-19. Glob Ment Health (Camb). 2022;9:508-520. doi: 10.1017/gmh.2022.55. eCollection 2022 Nov 4.	Review
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444	Paolini M, Palladini M, Mazza MG, Colombo F, Vai B, Rovere-Querini P, Falini A, Poletti S, Benedetti F. Brain correlates of subjective cognitive complaints in COVID-19 survivors: A multimodal magnetic resonance imaging study. Eur Neuropsychopharmacol. 2023;68:1-10. doi: 10.1016/j.euroneuro.2022.12.002. Epub 2022 Dec 12.	**Included**
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446	Tanwar M, Singhal A, Alizadeh M, Sotoudeh H. Magnetic Resonance Imaging (MRI) findings in COVID-19 associated encephalitis. Neurol Int. 2023;15(1):55-68. doi: 10.3390/neurolint15010005.	Unfocused
447	Malan-Müller S, Valles-Colomer M, Palomo T, Leza JC. The gut-microbiota-brain axis in a Spanish population in the aftermath of the COVID-19 pandemic: microbiota composition linked to anxiety, trauma, and depression profiles. Gut Microbes. 2023;15(1):2162306. doi: 10.1080/19490976.2022.2162306.	Unrelated
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465	Mahajan A, Nayak MK, Gaikwad SB, Sharma K, Padma Srivastava MV, Anand P, Oinam R, Mishra BM. Post-vaccination/post-COVID immune-mediated demyelination of the brain and spinal cord: A novel neuroimaging finding. Neurol India. 2023;71(1):86-91. doi: 10.4103/0028-3886.370449.	Case
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470	Patel H, Easterbrook B, D'Alessandro-Lowe AM, Andrews K, Ritchie K, Hosseiny F, Rodrigues S, Malain A, O'Connor C, Schielke H, McCabe RE, Nicholson AA, Lanius R, McKinnon MC. Associations between trauma and substance use among healthcare workers and public safety personnel during the SARS-CoV-2 (COVID-19) pandemic: the mediating roles of dissociation and emotion dysregulation. Eur J Psychotraumatol. 2023;14(1):2180706. doi: 10.1080/20008066.2023.2180706.	Unrelated
471	Doukas A, DePierro J, Starkweather S, Sharma V, Marin DB, Charney DS. Symptom characteristics of health care workers seeking outpatient psychiatric care during the COVID-19 pandemic. Am J Ind Med. 2023. doi: 10.1002/ajim.23478. Online ahead of print 2023 Mar 24.	Unrelated
472	McCarthy L, Khegai O, Goldstein J, Belani P, Pawha P, Kihira S, Mathew B, Gururangan K, Hao Q, Singh A, Navis A, Delman BN, Jette N, Balchandani P. Neuroimaging findings and neurological manifestations in hospitalized COVID-19 patients: Impact of cancer and ventilatory support status. PLoS One. 2023;18(3):e0283614. doi: 10.1371/journal.pone.0283614. eCollection 2023 Mar 24.	Unrelated
473	Xiao W, Liu X, Wang H, Huang Y, Dai Z, Si M, Fu J, Chen X, Jia M, Leng Z, Cui D, Mak WWS, Dong L, Su X. Mediating role of resilience in the relationship between COVID-19 related stigma and mental health among COVID-19 survivors: a cross-sectional study. Infect Dis Poverty. 2023;12(1):27. doi: 10.1186/s40249-023-01074-3.	Unrelated
474	Ozery-Flato M, Ein-Dor L, Pinchasov O, Dabush-Kasa M, Hexter E, Chodick G, Rosen-Zvi M, Guindy M. The impact of COVID-19 pandemic on clinical findings in medical imaging exams: An observational study in a nationwide Israeli health organization. JMIR Form Res. 2023. doi: 10.2196/42930. Online ahead of print 2023 Feb 28.	Unsuitable
475	Pountney J, Butcher I, Donnelly P, Morrison R, Shaw RL. How the COVID-19 crisis affected the well-being of nurses working in paediatric critical care: A qualitative study. Br J Health Psychol. 2023. doi: 10.1111/bjhp.12661. Online ahead of print 2023 Mar 30.	No neuroim.
476	Chang CH, Chen SJ, Chen YC, Tsai HC. A 30-year-old woman with an 8-week history of anxiety, depression, insomnia, and mild cognitive impairment following COVID-19 who responded to accelerated bilateral theta-burst transcranial magnetic stimulation over the prefrontal cortex. Am J Case Rep. 2023;24:e938732. doi: 10.12659/AJCR.938732.	Case

477	Klinkhammer S, Horn J, Duits AA, Visser-Meily JMA, Verwijk E, Slooter AJC, Postma AA, van Heugten CM; NeNeSCo study group. Neurological and (neuro)psychological sequelae in intensive care and general ward COVID-19 survivors. Eur J Neurol. 2023. doi: 10.1111/ene.15812. Online ahead of print 2023 Apr 3.	**Included**
478	Wischmann J, Bartos LM, Brendel M, Albert NL, Forbrig R, Straube A, Masouris I. Translocator protein (TSPO)-PET as diagnostic and monitoring tool in COVID-19 related MRI-negative brainstem encephalitis: a case report. J Neurol. 2023:1-4. doi: 10.1007/s00415-023-11691-5. Online ahead of print 2023 Apr 3.	Case
479	Bawand R, Ghiasian M, Samadyan M. Concurrent diffuse dural and leptomeningeal enhancements in brain Magnetic Resonance Imaging following a mild COVID-19 infection: A Novel Case Report and Review of Literature. Curr Med Imaging. 2023. doi: 10.2174/1573405620666230328110847. Online ahead of print 2023Mar 28.	Case
480	Patil C, Kumar A, Battula V, Kumar P, Kollu R, Kotamraju S, Nethi Balingari BL, Reddy S, Ravula S, Reddy AR. Radiological manifestations of rhino-orbito-cranial mucormycosis in COVID-19 patients correlated with pathological and clinical outcomes and emphasis on magnetic resonance imaging-based scoring system. Cureus. 2023;15(3):e35745. doi: 10.7759/cureus.35745. eCollection 2023 Mar.	Unfocused
481	Caille A, Allemang-Trivalle A, Blanchin M, Rebion A, Sauvaget A, Gohier B, Birmes P, Bui E, Fakra E, Krebs MO, Lemogne C, Prieto N, Jalenques I, Vidailhet P, Aouizerate B, Hingray C, El-Hage W. EMDR for symptoms of depression, stress and burnout in health care workers exposed to COVID-19 (HARD): A study protocol for a trial within a cohort study. Eur J Psychotraumatol. 2023;14(1):2179569. doi: 10.1080/20008066.2023.2179569.	Protocol
482	Burulday V, Bayar Muluk N, Akgül MH, Sayar MS. Diffusion-weighted imaging measurements of central smell regions in COVID-19 patients: insular gyrus, corpus amygdala, and thalamus. Eur Rev Med Pharmacol Sci. 2023;27(7):3201-3207. doi: 10.26355/eurrev_202304_31954.	**Included**
483	Gruenebach N, Abello Mercado MA, Grauhan NF, Sanner A, Kronfeld A, Groppa S, Schoeffling VI, Hilbert T, Brockmann MA, Othman AE. Clinical feasibility and validation of the accelerated T2 mapping sequence GRAPPATINI in brain imaging. Heliyon. 2023;9(4):e15064. doi: 10.1016/j.heliyon.2023.e15064.	No COVID-19
484	McGinty G, Fox R, Hyland P. Assessing prevalence, validity, and correlates of ICD-11 posttraumatic stress disorder and complex posttraumatic stress disorder in Ireland. Psychol Trauma. 2023. doi: 10.1037/tra0001472. Epub ahead of print 2023 Apr 24.	Unrelated
485	Debs P, Khalili N, Solnes L, Al-Zaghal A, Sair HI, Yedavalli V, Luna LP. Post-COVID-19 brain [18F] FDG-PET findings: A retrospective single-center study in the United States. AJNR Am J Neuroradiol. 2023. doi: 10.3174/ajnr.A7863. Epub ahead of print 2023 Apr 27.	**Included**
486	Rong J, Zhao C, Xia X, Li G, Haider A, Wei H, Chen J, Xiao Z, Li Y, Zhou X, Xu H, Collier TL, Wang L, Liang SH. Evaluation of [18F]favipiravir in rodents and nonhuman primates (NHP) with positron emission tomography. Pharmaceuticals (Basel). 2023;16(4):524. doi: 10.3390/ph16040524. Online 2023 Mar 31.	Animal
487	Douaud G, Lee S, Alfaro-Almagro F, Arthofer C, Wang C, McCarthy P, Lange F, Andersson JLR, Griffanti L, Duff E, Jbabdi S, Taschler B, Keating P, Winkler AM, Collins R, Matthews PM, Allen N, Miller KL, Nichols TE, Smith SM. SARS-CoV-2 is associated with changes in brain structure in UK Biobank. Nature. 2022;604(7907):697-707. doi: 10.1038/s41586-022-04569-5. Epub 2022 Mar 7.	**Included**
488	Nawabi J, Morotti A, Wildgruber M, Boulouis G, Kraehling H, Schlunk F, Can E, Kniep H, Thomalla G, Psychogios M, Hamm B, Fiehler J, Hanning U, Sporns P. Clinical and imaging characteristics in patients with SARS-CoV-2 infection and acute intracranial hemorrhage. J Clin Med. 2020;9(8):2543. doi: 10.3390/jcm9082543.	Unsuitable

Included (n = 36)
Excluded (n = 452)
- Unrelated (n = 199)
- Reviews (n = 68)
- Unfocused (n = 37)
- Case reports/series (n = 37)
- No COVID-19 (n = 29)
- No neuroimaging (n = 18)
- Unsuitable data presentation (n = 18)
- Opinion (n = 17)
- Protocols (n = 13)
- Animal (n = 10)
- Functional connectivity only (n = 3)
- fMRI only (n = 1)
- Duplicates (n = 2)
- *In vitro* (n = 0)
- Post-mortem (n = 0)

Supplementary Table S2. PRISMA Checklist.

PRISMA 2020 Checklist

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE			1
Title	1	Identify the report as a systematic review.	1
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	3
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	3
METHODS			4
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	4
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	4, Fig. 1
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	4, Fig. 1, 5
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	4
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	4
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	4
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Table 1, 5-16
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	AXIS, 4, Suppl.
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	N/A
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	Table 1, 5-16
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	N/A
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Table 1, 5-16
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	3-16
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	16, N/A
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	N/A
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	AXIS, 4 Suppl.
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	N/A
RESULTS			5-16
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.	3-5
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Fig.1, 5, Suppl.
Study characteristics	17	Cite each included study and present its characteristics.	5-16
Risk of bias in	18	Present assessments of risk of bias for each included study.	N/A

Section and Topic	Item #	Checklist item	Location where item is reported
studies			
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	N/A
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	N/A
	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	N/A
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	N/A
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	N/A
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	N/A
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	N/A
DISCUSSION			16-17
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	16-17
	23b	Discuss any limitations of the evidence included in the review.	16-17
	23c	Discuss any limitations of the review processes used.	N/A
	23d	Discuss implications of the results for practice, policy, and future research.	17
OTHER INFORMATION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Not registered
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	N/A
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	N/A
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	N/A
Competing interests	26	Declare any competing interests of review authors.	17
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	N/A

From: Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71

For more information, visit: http://www.prisma-statement.org/

Supplementary Table S3. Quality assessment through AXIS. [Bracketed numbers] refer to papers' References; N/A, not applicable
Appraisal tool for Cross-Sectional Studies (AXIS) – Kremer et al. 2020 [30]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?			×
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?			×
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		

Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Klironomos et al. 2020 [31]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – O'Shea et al. 2021 [32]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?			
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?		×	

Appraisal tool for Cross-Sectional Studies (AXIS) – Lin et al. 2020 [33]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		

3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?		×	

Appraisal tool for Cross-Sectional Studies (AXIS) – Sawlani et al. 2021 [34]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?	×		
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Lindan et al. 2021 [35]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?	×		
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		

11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Orman et al. 2021 [36]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?		×	
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Rapalino et al. 2021 [37]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				

19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Kas et al. 2021 [38]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?		×	
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?			×
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?			N/A
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)		×	
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?		×	
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Conklin et al. 2021 [39]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?		×	
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Guedj et al. 2021 [40]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		

6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Büttner et al. 2021 [41]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Thurnher et al. 2021 [42]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A

14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Agarwal et al. 2021 [43]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Mahammedi et al. 2021 [44]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Lambrecq et al. 2021 [45]

	Question	Yes	No	Don't know/Comment

Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Yan et al. 2021 [46]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?		×	
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Uginet et al. 2022 [47]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?		×	
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		

9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Jegatheeswaran 2022 [48]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Tu et al. 2021 [49]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				

17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Benedetti et al. 2021 [50]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Duarte et al. 2022 [51]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?		×	
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Nelson et al. 2022 [52]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		

3	Was the sample size justified?		×	
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?		×	
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Andriuta et al. 2022 [53]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		Retrospective male-only controls
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Widemon et al. 2022 [54]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		

10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?			×, exemption obtained

Appraisal tool for Cross-Sectional Studies (AXIS) – Lersy et al. 2022 [55]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – de Paula et al. 2023 [56]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		

18	Were the limitations of the study discussed?			× Possible selection bias recognized
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Callen et al. 2023 [57]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?		×	
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Díez-Cirarda et al. 2022 [58]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Goehringer et al. 2023 [59]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?		×	

4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?		×	
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Paolini et al. 2023 [60]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Kamasak et al. 2023 [61]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?		×	
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		

Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?		×	
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Klinkhammer et al. 2023 [62]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Douaud et al. 2022 [63]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	

20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Burulday et al. 2023 [64]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?		×	
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Appraisal tool for Cross-Sectional Studies (AXIS) – Debs et al. 2023 [65]

	Question	Yes	No	Don't know/Comment
Introduction				
1	Were the aims/objectives of the study clear?	×		
Methods				
2	Was the study design appropriate for the stated aim(s)?	×		
3	Was the sample size justified?	×		
4	Was the target/reference population clearly defined? (Is it clear who the research was about?)	×		
5	Was the sample frame taken from an appropriate population base so that it closely represented the target/reference population under investigation?	×		
6	Was the selection process likely to select subjects/participants that were representative of the target/reference population under investigation?	×		
7	Were measures undertaken to address and categorise non-responders?			N/A
8	Were the risk factor and outcome variables measured appropriate to the aims of the study?	×		
9	Were the risk factor and outcome variables measured correctly using instruments/measurements that had been trialled, piloted or published previously?	×		
10	Is it clear what was used to determined statistical significance and/or precision estimates? (e.g. p-values, confidence intervals)	×		
11	Were the methods (including statistical methods) sufficiently described to enable them to be repeated?	×		
Results				
12	Were the basic data adequately described?	×		
13	Does the response rate raise concerns about non-response bias?			N/A
14	If appropriate, was information about non-responders described?			N/A
15	Were the results internally consistent?	×		
16	Were the results presented for all the analyses described in the methods?	×		
Discussion				
17	Were the authors' discussions and conclusions justified by the results?	×		
18	Were the limitations of the study discussed?	×		
Other				
19	Were there any funding sources or conflicts of interest that may affect the authors' interpretation of the results?		×	
20	Was ethical approval or consent of participants attained?	×		

Supplementary Table S4. Locations of the eligible studies.

Location	Study
11 centers, France	Kremer, S.; Lersy, F.; Anheim, M.; Merdji, H.; Schenck, M.; Oesterlé, H.; Bolognini, F.; Messie, J.; Khalil, A.; Gaudemer, A.; Carré, S.; Alleg, M.; Lecocq, C.; Schmitt, E.; Anxionnat, R.; Zhu, F.; Jager, L.; Nesser, P.; Mba, Y.T.; Hmeydia, G.; Benzakoun, J.; Oppenheim, C.; Ferré, J.C.; Maamar, A.; Carsin-Nicol, B.; Comby, P.O.; Ricolfi, F.; Thouant, P.; Boutet, C.; Fabre, X.; Forestier, G.; de Beaurepaire, I.; Bornet, G.; Desal, H.; Boulouis, G.; Berge, J.; Kazémi, A.; Pyatigorskaya, N.; Lecler, A.; Saleme, S.; Edjlali-Goujon, M.; Kerleroux, B.; Constans, J.M.; Zorn, P.E.; Mathieu, M.; Baloglu, S.; Ardellier, F.D.; Willaume, T.; Brisset, J.C.; Caillard, S.; Collange, O.; Mertes, P.M.; Schneider, F.; Fafi-Kremer, S.; Ohana, M.; Meziani, F.; Meyer, N.; Helms, J.; Cotton, F. Neurologic and neuroimaging findings in patients with COVID-

	19: A retrospective multicenter study. *Neurology* **2020**, *95*(13), e1868-e1882. doi: 10.1212/WNL.0000000000010112. Epub 2020 Jul 17.
2 centers, Stockholm, Sweden	Klironomos, S.; Tzortzakakis, A.; Kits, A.; Öhberg, C.; Kollia, E.; Ahoromazdae, A.; Almqvist, H.; Aspelin, Å.; Martin, H.; Ouellette, R.; Al-Saadi, J.; Hasselberg, M.; Haghgou, M.; Pedersen, M.; Petersson, S.; Finnsson, J.; Lundberg, J.; Falk Delgado, A.; Granberg, T. Nervous system involvement in Coronavirus Disease 2019: Results from a retrospective consecutive neuroimaging cohort. *Radiology* **2020**, *297*(3):E324-E334. doi: 10.1148/radiol.2020202791. Epub 2020 Jul 30.
1 center, MGH, Boston, Mass., USA	O'Shea, A.; Parakh, A.; Hedgire, S.; Lee, SI. Multisystem assessment of the imaging manifestations of coagulopathy in hospitalized patients with coronavirus disease (COVID-19). *AJR Am. J. Roentgenol.* **2021**, *216*(4), 1088-1098. doi: 10.2214/AJR.20.24132. Epub 2021 Feb 3.
2 centers, New York City, NY, USA	Lin, E.; Lantos, J.E.; Strauss, S.B.; Phillips, C.D.; Campion, T.R, Jr.; Navi, B.B.; Parikh, N.S.; Merkler, A.E.; Mir, S.; Zhang, C.; Kamel, H.; Cusick, M.; Goyal, P.; Gupta, A. Brain imaging of patients with COVID-19: Findings at an academic institution during the height of the outbreak in New York City. *AJNR Am. J. Neuroradiol.* **2020**, *41*(11), 2001-2008. doi: 10.3174/ajnr.A6793. Epub 2020 Aug 20.
1 center, Birmingham, UK	Sawlani, V.; Scotton, S.; Nader, K.; Jen, J.P.; Patel, M.; Gokani, K.; Denno, P.; Thaller, M.; Englezou, C.; Janjua, U.; Bowen, M.; Hoskote, C.; Veenith, T.; Hassan-Smith, G.; Jacob, S. COVID-19-related intracranial imaging findings: a large single-centre experience. *Clin. Radiol.* **2021**, *76*(2), 108-116. doi: 10.1016/j.crad.2020.09.002. Epub 2020 Sep 15.
International call by the American Society of Pediatric Neuroradiology, 10 countries	Lindan, C.E.; Mankad, K.; Ram, D.; Kociolek, L.K.; Silvera, V.M.; Boddaert, N.; Stivaros, S.M.; Palasis, S; ASPNR PECOBIG Collaborator Group. Neuroimaging manifestations in children with SARS-CoV-2 infection: a multinational, multicentre collaborative study. *Lancet Child Adolesc. Health* **2021**, *5*(3), 167-177. doi: 10.1016/S2352-4642(20)30362-X. Epub 2020 Dec 16.
1 center, Houston, Tx, USA	Orman, G.; Desai, N.K.; Kralik, S.F.; Meoded, A.; Seghers, V.J.; Annapragada, A.V.; Huisman, T.A.G.M. Neuroimaging offers low yield in children positive for SARS-CoV-2. *AJNR Am. J. Neuroradiol.* **2021**, *42*(5), 951-954. doi: 10.3174/ajnr.A7022. Epub 2021 Jan 7.
1 center, MGH, Boston, Mass., USA	Rapalino, O.; Pourvaziri, A.; Maher, M.; Jaramillo-Cardoso, A.; Edlow, B.L.; Conklin, J.; Huang, S.; Westover, B.; Romero, J.M.; Halpern, E.; Gupta, R.; Pomerantz, S.; Schaefer, P.; Gonzalez, R.G.; Mukerji, S.S.; Lev, M.H. Clinical, imaging, and lab correlates of severe COVID-19 leukoencephalopathy. *AJNR Am. J. Neuroradiol.* **2021**, *42*(4), 632-638. doi: 10.3174/ajnr.A6966. Epub 2021 Jan 7.
1 center, Pitié-Salpêtrière, Paris, France	Kas, A.; Soret, M.; Pyatigoskaya, N.; Habert, M.O.; Hesters, A.; Le Guennec, L.; Paccoud, O.; Bombois, S.; Delorme, C; on the behalf of CoCo-Neurosciences study group and COVID SMIT PSL study group. The cerebral network of COVID-19-related encephalopathy: a longitudinal voxel-based ^{18}F-FDG-PET study. *Eur. J. Nucl. Med. Mol. Imaging* **2021**, *48*(8), 2543-2557. doi: 10.1007/s00259-020-05178-y. Epub 2021 Jan 15.
1 center, MGH, Boston, Mass., USA	Conklin, J.; Frosch, M.P.; Mukerji, S.S.; Rapalino, O.; Maher, M.D.; Schaefer, P.W.; Lev, M.H.; Gonzalez, R.G.; Das, S.; Champion, S.N.; Magdamo, C.; Sen, P.; Harrold, G.K.; Alabsi, H.; Normandin, E.; Shaw, B.; Lemieux, J.E.; Sabeti, P.C.; Branda, J.A.; Brown, E.N.; Westover, M.B.; Huang, S.Y.; Edlow, B.L. Susceptibility-weighted imaging reveals cerebral microvascular injury in severe COVID-19. *J. Neurol. Sci.* **2021**, *421*, 117308. doi: 10.1016/j.jns.2021.117308. Epub 2021 Jan 15.
1 center, Marseille, France	Guedj, E.; Campion, J.Y.; Dudouet, P.; Kaphan, E.; Bregeon, F.; Tissot-Dupont, H.; Guis, S.; Barthelemy, F.; Habert, P.; Ceccaldi, M.; Million, M.; Raoult, D.; Cammilleri, S.; Eldin, C. ^{18}F-FDG brain PET hypometabolism in patients with long COVID. *Eur. J. Nucl. Med. Mol. Imaging* **2021**, *48*(9), 2823-2833. doi: 10.1007/s00259-021-05215-4. Epub 2021 Jan 26.
1 center, Homboldt-Charité, Berlin, Germany	Büttner, L.; Bauknecht, H.C.; Fleckenstein, F.N.; Kahn, J.; Tietze, A.; Bohner, G.; Siebert, E. Neuroimaging findings in conjunction with severe COVID-19. *Rofo* **2021**, *193*(7), 822-829. doi: 10.1055/a-1345-9784. Epub 2021 Feb 3.
1 center, Vienna, Austria	Thurnher, M.M.; Boban, J.; Röggla, M.; Staudinger, T. Distinct pattern of microsusceptibility changes on brain magnetic resonance imaging (MRI) in critically ill patients on mechanical ventilation/oxygenation. *Neuroradiology* **2021**, *63*(10), 1651-1658. doi: 10.1007/s00234-021-02663-5. Epub 2021 Mar 1.
3-center, New York City, NY, USA	Agarwal, S.; Melmed, K.; Dogra, S.; Jain, R.; Conway, J.; Galetta, S.; Lewis, A. Increase in ventricle size and the evolution of white matter changes on serial imaging in critically ill patients with COVID-19. *Neurocrit. Care* **2021**, *35*(2), 491-500. doi: 10.1007/s12028-021-01207-2. Epub 2021 Mar 5.
5-center, University of Cincinnati Medical Center, Cincinnati, Ohio, USA, Hospital 12 de Octubre, Madrid, Spain; Hospital Clínic, Barcelona, Spain; University of Cagliari, Cagliari, Italy; and Federal University of Sao Paulo, Sao Paulo, Brazil	Mahammedi, A.; Ramos, A.; Bargalló, N.; Gaskill, M.; Kapur, S.; Saba, L.; Carrete, H, Jr.; Sengupta, S.; Salvador, E.; Hilario, A.; Revilla, Y.; Sanchez, M.; Perez-Nuñez, M.; Bachir, S.; Zhang, B.; Oleaga, L.; Sergio, J.; Koren, L.; Martin-Medina, P.; Wang, L.; Benegas, M.; Ostos, F.; Gonzalez-Ortega, G.; Calleja, P.; Udstuen, G.; Williamson, B.; Khandwala, V.; Chadalavada, S.; Woo, D.; Vagal, A. Brain and lung imaging correlation in patients with COVID-19: Could the severity of lung disease reflect the prevalence of acute abnormalities on neuroimaging? A global multicenter observational study. *AJNR Am. J. Neuroradiol.* **2021**, *42*(6), 1008-1016. doi: 10.3174/ajnr.A7072. Epub 2021 Mar 11.
1 center, Pitié-Salpêtrière, Paris, France	Lambrecq, V.; Hanin, A.; Munoz-Musat, E.; Chougar, L.; Gassama, S.; Delorme, C.; Cousyn, L.; Borden, A.; Damiano, M.; Frazzini, V.; Huberfeld, G.; Landgraf, F.; Nguyen-Michel, V.H.; Pichit, P.; Sangare, A.; Chavez, M.; Morélot-Panzini, C.; Morawiec, E.; Raux, M.; Luyt, C.E.; Rufat, P.; Galanaud, D.; Corvol, J.C.; Lubetzki, C.; Rohaut, B.; Demeret, S.; Pyatigorskaya, N.; Naccache, L.; Navarro, V; Cohort COVID-19 Neurosciences (CoCo Neurosciences) Study Group. Association of clinical, biological, and brain magnetic resonance imaging findings with electroencephalographic findings for patients with COVID-19. *JAMA Netw. Open* **2021**, *4*(3), e211489. doi: 10.1001/jamanetworkopen.2021.1489.
4-center, 2 Shanghai, 1 Chengdu, 1 Wuhan, China	Yan, K.; Xiao, F.-F.; Jiang, Y.-W.; Xiao, T.-T.; Zhang, D.-J.; Yuan, W.-H.; Shao, J.-B.; Cheng, G.-Q.; Zeng, L.-K. Effects of SARS-CoV-2 infection on neuroimaging and neurobehavior in neonates. *World J. Pediatr.* **2021**, *17*(2), 171-179. doi: 10.1007/s12519-021-00423-2. Epub 2021 Mar 19.
1-center, Geneva, Switzerland	Uginet, M.; Breville, G.; Hofmeister, J.; Machi, P.; Lalive, P.H.; Rosi, A.; Fitsiori, A.; Vargas, M.I.; Assal, F.; Allali, G.; Lovblad, K.O. Cerebrovascular complications and vessel wall imaging in COVID-19 encephalopathy-A pilot study. *Clin. Neuroradiol.* **2022**, *32*(1), 287-293. doi: 10.1007/s00062-021-01008-2. Epub 2021 Mar 26.
3-center, Ontario, Canada	Jegatheeswaran, V.; Chan, M.W.K.; Chakrabarti, S.; Fawcett, A.; Chen, Y.A. Neuroimaging findings of hospitalized Covid-19 patients: A Canadian retrospective observational study. *Can. Assoc. Radiol. J.* **2022**, *73*(1), 179-186. doi: 10.1177/08465371211002815. Epub 2021 Apr 21.
2-center, Beijing, Shanghai, China	Tu, Y.; Zhang, Y.; Li, Y.; Zhao, Q.; Bi, Y.; Lu, X.; Kong, Y.; Wang, L.; Lu, Z.; Hu, L. Post-traumatic stress symptoms in COVID-19 survivors: a self-report and brain imaging follow-up study. *Mol. Psychiatry* **2021**, *26*(12), 7475-7480. doi: 10.1038/s41380-021-01223-w. Epub 2021 Jul 20.
1-center, San Raffaele, Milan, Italy	Benedetti, F.; Palladini, M.; Paolini, M.; Melloni, E.; Vai, B.; De, Lorenzo, R.; Furlan, R.; Rovere-Querini, P.; Falini, A.; Mazza, MG. Brain correlates of depression, post-traumatic distress, and inflammatory biomarkers in COVID-19 survivors: A multimodal magnetic resonance imaging study. *Brain Behav. Immun. Health* **2021**, *18*, 100387. doi: 10.1016/j.bbih.2021.100387. Epub 2021 Nov 2.

2-center, São Paulo, SP, and Serra, Espírito Santo, Brazil	Duarte AC, Fujiki RHM, Glória LFP, Fragoso DC, Pacheco FT, Calvi C, Rosa-Júnior M, Maia Junior ACM, Rocha AJD. Neurological imaging findings in hospitalized COVID-19 patients: a retrospective observational study in two Brazilian reference centers. *Arq. Neuropsiquiatr.* **2022**, *80*(5), 490-496. doi: 10.1590/0004-282X-ANP-2021-0103.
1-center, Karolinska Institutet, Stockholm, Sweden	Nelson DW, Granberg T, Andersen P, Jokhadar E, Kåhlin J, Granström A, Hallinder H, Schening A, Thunborg C, Walles H, Hagman G, Shams-Latifi R, Yu J, Petersson S, Tzortzakakis A, Levak N, Aspö M, Piehl F, Zetterberg H, Kivipelto M, Eriksson LI. The Karolinska NeuroCOVID study protocol: Neurocognitive impairment, biomarkers and advanced imaging in critical care survivors. Acta Anaesthesiol Scand. 2022;66(6):759-766. doi: 10.1111/aas.14062. Epub 2022 Apr 2.
1-center, Amiens, France	Andriuta D, Si-Ahmed C, Roussel M, Constans JM, Makki M, Aarabi A, Basille D, Andrejak C, Godefroy O. Clinical and imaging determinants of neurocognitive disorders in post-acute COVID-19 patients with cognitive complaints. J Alzheimers Dis. 2022;87(3):1239-1250. doi: 10.3233/JAD-215506.
1-center, Columbia University Irving Medical Center, New York, NY, USA	Widemon RS, Huang S, Capaccione KM, Mitchell RP, Salvatore MM, Lignelli A, Nguyen P. The impact of the COVID-19 pandemic on neuroimaging volume in New York City. Neuroradiol J. 2022;35(6):713-717. doi: 10.1177/19714009221096828. Epub 2022 May 3.
1-Center, Strasbourg, France	Lersy, F.; Bund, C.; Anheim, M.; Mondino, M.; Noblet, V.; Lazzara, S.; Phillipps, C.; Collange, O.; Oulehri, W.; Mertes, P.M.; Helms, J.; Merdji, H.; Schenck, M.; Schneider, F.; Pottecher, J.; Giraudeau, C.; Chammas, A.; Ardellier, F.D.; Baloglu, S.; Ambarki, K.; Namer, I.J.; Kremer, S. Evolution of neuroimaging findings in severe COVID-19 patients with initial neurological impairment: An observational study. *Viruses* **2022**, *14*(5), 949. doi: 10.3390/v14050949.
1-center, Universidade Federal de Minas Gerais, Belo Horizonte-MG, Brazil	de Paula, J.J.; Paiva, R.E.R.P.; Souza-Silva, N.G.; Rosa, D.V.; Duran, F.L.S.; Coimbra, R.S.; Costa, D.S.; Dutenhefner, P.R.; Oliveira, H.S.D.; Camargos, S.T.; Vasconcelos, H.M.M.; de Oliveira, Carvalho, N.; da Silva, J.B.; Silveira, M.B.; Malamut, C.; Oliveira, D.M.; Molinari, L.C, de Oliveira, D.B.; Januário, J.N.; Silva, L.C, De Marco, L.A.; Queiroz, D.M.M.; Meira, W.; Busatto, G.; Miranda, D.M.; Romano-Silva, M.A. Selective visuoconstructional impairment following mild COVID-19 with inflammatory and neuroimaging correlation findings. *Mol. Psychiatry* **2023**, *28*(2), 553-563. doi: 10.1038/s41380-022-01632-5. Epub 2022 Jun 14.
1 center, Aurora, Colorado, USA	Callen, A.L.; Tanabe, J.; Thaker, A.A.; Pollard, R.; Sauer, B.; Jones, W.; Pattee, J.; Steach, B.; Timpone, V.M. Evaluation of cerebrovascular reactivity and vessel wall imaging in patients with prior COVID-19: A prospective case-control MRI study. *AJR Am. J. Roentgenol.* **2023**, *220*(2), 257-264. doi: 10.2214/AJR.22.28267. Epub 2022 Aug 24.
1-center, Universidad Complutense, Madrid, Spain	Díez-Cirarda, M.; Yus, M.; Gómez-Ruiz, N.; Polidura, C.; Gil-Martínez, L.; Delgado-Alonso, C.; Jorquera, M.; Gómez-Pinedo, U.; Matias-Guiu, J.; Arrazola, J.; Matias-Guiu, J.A. Multimodal neuroimaging in post-COVID syndrome and correlation with cognition. *Brain* **2022**:awac384. doi: 10.1093/brain/awac384. Online ahead of print 2022 Oct 26.
1-center, Nancy, France	Goehringer, F.; Bruyere, A.; Doyen, M.; Bevilacqua, S.; Charmillon, A.; Heyer, S.; Verger, A. Brain 18F-FDG PET imaging in outpatients with post-COVID-19 conditions: findings and associations with clinical characteristics. *Eur. J. Nucl. Med. Mol. Imaging* **2023**, *50*(4), 1084-1089. doi: 10.1007/s00259-022-06013-2. Epub 2022 Nov 2.
1-center, San Raffaele, Milan, Italy	Paolini, M.; Palladini, M.; Mazza, M.G.; Colombo, F.; Vai, B.; Rovere-Querini, P.; Falini, A.; Poletti, S.; Benedetti, F. Brain correlates of subjective cognitive complaints in COVID-19 survivors: A multimodal magnetic resonance imaging study. *Eur. Neuropsychopharmacol*. **2023**, *68*, 1-10. doi: 10.1016/j.euroneuro.2022.12.002. Epub 2022 Dec 12.
1-center, Kirsehir, Turkey	Kamasak, B.; Ulcay, T.; Nisari, M.; Gorgulu, O.; Akca, V.; Alpaslan, M.; Yetis, A.; Hizmali, L.; Karahocagil, M.K.; Aycan, K. Effects of COVID-19 on brain and cerebellum: a voxel based morphometrical analysis. *Bratisl. Lek. Listy*. **2023**. doi: 10.4149/BLL_2023_068. Online ahead of print 2023 Feb 28.
6-center, Amsterdam, Maastricht, Utrecht, Zuyderland, Onze Lieve Vrouwe Gasthuis, and Diakonessenhuis Utrecht	Klinkhammer, S.; Horn, J.; Duits, A.A.; Visser-Meily, J.M.A.; Verwijk, E.; Slooter, A.J.C.; Postma, A.A.; van Heugten, C.M; NeNeSCo study group. Neurological and (neuro)psychological sequelae in intensive care and general ward COVID-19 survivors. *Eur. J. Neurol.* **2023**. doi: 10.1111/ene.15812. Online ahead of print 2023 Apr 3.
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