Supplementary Table 1: List of excluded studies

Citation	Reason for exclusion
Alves JM, Yunker AG, DeFendis A, et al. BMI status and associations between	
affect, physical activity and anxiety among U.S. children during COVID-19.	Not relevant to PICO
Pediatr Obes. 2021;16(9):e12786.	
Argiansya F, Soedjadhi R, Indra RM, et al. Electronic media use and sleep	
disorders among adolescents during the COVID-19 pandemic. Sleep Disord.	Not relevant to PICO
2021:2096944. doi: 10.1155/2021/2096944.	
Aristovnik A, Keržič D, Ravšelj D. Impacts of the COVID-19 Pandemic on Life	N-4l DICO
of Higher Education Students: A Global Perspective. Sustainability. 2020;12:8438.	Not relevant to PICO
Babu TA, Selvapandiyan J. The Psychological Effects of COVID-19 Pandemic	
Related Lockdown in Children. Indian Pediatr. 2020;57:1087.	Study design
Bacaro V, Chiabudini M, Buonanno C, et al. Sleep characteristics in Italian	
children during home confinement due to COVID-19 outbreak. Clin	Not relevant to PICO
Neuropsychiatry. 2021;18:13-27.	That relevant to Tree
Balasubramanian S, Rao NM, Goenka A. Coronavirus Disease 2019 (COVID-	
19) in Children - What We Know So Far and What We Do Not. Indian	Study design
Pediatr. 2020;57:435–42.	
Bates L, Zieff G, Stanford K. COVID-19 Impact on Behaviors across the 24-	
Hour Day in Children and Adolescents: Physical Activity, Sedentary Behavior,	Study design
and Sleep. Children (Basel). 2020;7:138.	
Bellomo TR, Prasad S, Munzer T. The impact of the COVID-19 pandemic on	
children with autism spectrum disorders. J Pediatr Rehabil Med. 2020;13:349-	Study design
54.	
Berard M, Rattaz C, Peries M, et al. Impact of containment and mitigation	
measures on children and youth with ASD during the COVID-19 pandemic:	Not relevant to PICO
report from the ELENA cohort. J Psychiatr Res. 2021;137:73-80.	
Bertrand L, Schröder C, Bourgin P, et al. Sleep and circadian rhythm	
characteristics in individuals from the general population during the French	Not relevant to PICO
COVID-19 full lockdown. J Sleep Res. Published Online First: 7 September 2021. doi: 10.1111/jsr.13480.	
Biernesser C, Montano G, Miller E, et al. Social Media Use and Monitoring for	
Adolescents With Depression and Implications for the COVID-19 Pandemic:	
Qualitative Study of Parent and Child Perspectives. JMIR Pediatr Parent.	Not relevant to PICO
2020;3:e21644.	
Bösselmann V, Amatriain-Fernández S, Gronwald T, et al. Physical activity,	
boredom and fear of COVID-19 among adolescents in Germany. Front Psychol.	Not relevant to PICO
2021;12:624206.	
Breidokienė R, Jusienė R, Urbonas V, et al. Sedentary behavior among 6-14-	
year-old children during the COVID-19 lockdown and its relation to physical	Not relevant to PICO
and mental health. Healthcare (Basel). 2021;9(6):756.	
Cachón-Zagalaz J, Zagalaz-Sánchez MaL, Arufe-Giráldez V, et al. Physical	
Activity and Daily Routine among Children Aged 0-12 during the COVID-19	Not relevant to PICO
Pandemic in Spain. Int J Environ Res Public Health. 202;18:703.	
Chen CY, Chen IH, O'Brien KS, et al. CY. Psychological distress and internet-	N. A. DICC
related behaviors between schoolchildren with and without overweight during	Not relevant to PICO
the COVID-19 outbreak. Int J Obes. 2021;45:677–686. Chen Y, Osika W, Henriksson G, et al. Impact of COVID-19 pandemic on	
mental health and health behaviors in Swedish adolescents. Scand J Public	Not relevant to PICO
Health. Published Online First: 8 June 2021. doi: 10.1177/14034948211021724.	Not relevant to 1160
Chia S, Chang S, Roy C. Effects of nationwide lockdown and school closures	
during the COVID-19 pandemic on children's physical health and	G. 1 1 .
beyond. Singapore Med J. Published Online First: 2 December 2020. doi:	Study design
10.11622/smedj.2020172	
Chugani CD, Houtrow A. Effect of the COVID-19 Pandemic on College	Study design
Students With Disabilities. Am J Public Health. 2020;110:1722-3.	Study design

Cipolla C, Curatola A, Ferretti S, et al. Eating habits and lifestyle in children with obesity during the COVID19 lockdown: a survey in an Italian center. Acta	Not relevant to PICO
Biomed. 2021;92(2):e2021196.	
Clemens V, Deschamps P, Fegert JM. Potential effects of "social" distancing measures and school lockdown on child and adolescent mental health. Eur Child Adolesc Psychiatry. 2020;29:739-42.	Study design
Dave H, Yagnik P. Psycho-social impact of COVID-19 pandemic on children in India: The reality. Child Abuse Negl. 2020;108:104663.	Study design
De Figueiredo CS, Sandre PC, Portugal LCL. COVID-19 pandemic impact on children and adolescents' mental health: Biological, environmental, and social factors. Prog Neuropsychopharmacol Biol Psychiatry. 2021;106:110171.	Study design
Drogosz M, Pellegren J, Creegan E, et al. Implications of sports on COVID-19 cases in Rhode Island school-aged athletes. R I Med J (2013). 2021;104(5):51-54.	Not relevant to PICO
Dutta K, Mukherjee R, Sen D, Sahu S. Effect of COVID-19 lockdown on sleep behavior and screen exposure time: an observational study among Indian school children. Biol Rhythm Res. Published Online First: 14 October 2020. doi:10.1080/09291016.2020.1825284.	Error in reporting data
Eales L, Gillespie S, Alstat RA, et al. Children's screen and problematic media use in the United States before and during the COVID-19 pandemic. Child Dev. 2021;92(5):e866-e882. doi: 10.1111/cdev.13652.	Not relevant to PICO
Fidanci İ, Aksoy H, Yengil Taci D, et al. Evaluation of the effect of the COVID-19 pandemic on sleep disorders and nutrition in children. Int J Clin Pract. 2021;75(7):e14170.	Not relevant to PICO
Fillon A, Genin P, Larras B, et al. France's 2020 report card on physical activity and sedentary behaviors in children and youth: results and progression. J Phys Act Health. 2021;18(7):811-7.	COVID-19 related data same with Chambonniere C, et al.
González-Rábago Y, Cabezas-Rodríguez A, Martín U. Social inequalities in health determinants in Spanish children during the COVID-19 lockdown. Int J Environ Res Public Health. 2021;18(8):4087.	Not relevant to PICO
Hudimova A, Popovych I, Baidyk V, et al. The impact of social media on young web users' psychological well-being during the COVID-19 pandemic progression. AMAZONIA Investiga. 2021;10(39):50-61.	Not relevant to PICO
Judge M. Covid 19, school closures and the uptake of a digital assessment for learning pilot project during Ireland's national lockdown. Irish Educational Studies. 2021;40(2):419-29.	Not relevant to PICO
Kerekes N, Bador K, Sfendla A, et al. Changes in adolescents' psychosocial functioning and well-being as a consequence of long-term COVID-19 restrictions. Int J Environ Res Public Health. 2021;18(16):8755.	Not relevant to PICO
Kim D, Lee J. Addictive Internet gaming usage among Korean adolescents before and after the outbreak of the COVID-19 pandemic: a comparison of the latent profiles in 2018 and 2020. Int J Environ Res Public Health. 2021;18(14):7275.	Not relevant to PICO
Kim SJ, Lee S, Han H, et al. Parental mental health and children's behaviors and media usage during COVID-19-related school closures. J Korean Med Sci. 2021;36(25):e184.	Not relevant to PICO
Larsen L, Helland MS, Holt T. The impact of school closure and social isolation on children in vulnerable families during COVID-19: a focus on children's reactions. Eur Child Adolesc Psychiatry. 2021;26:1–11.	Not relevant to PICO
Latino F, Fischetti F, Cataldi S, et al. The impact of an 8-weeks at-home physical activity plan on academic achievement at the time of COVID-19 lock-down in Italian school. Sustainability. 2021;13:5812.	Not relevant to PICO
Lecuelle F, Leslie W, Huguelet S. Did the COVID-19 lockdown really have no impact on young children's sleep? J Clin Sleep Med. 2020;16:2121.	Study design
Levante A, Petrocchi S, Bianco F, et al. Psychological impact of COVID-19 outbreak on families of children with Autism Spectrum Disorder and typically developing peers: an online survey. Brain Sci. 2021;11(6):808.	Not relevant to PICO

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Sama BK, Kaur P, Thind PS, et al. Implications of COVID-19 induced nationwide lockdown on children's behaviour in Punjab, India. Child Care	Study design
Health Dev. 2021;47:128-35.	
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Segre G, Campi R, Scarpellini F, et al. Interviewing children: the impact of the	
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Selden TM, Berdahl TA, Fang Z. The risk of severe COVID-19 within	N
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South Africa and its impact on children. South African Journal of Childhood	Not relevant to PICO
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Theis N, Campbell N, De Leeuw J, et al. The effects of COVID-19 restrictions	
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Torres González, C, Galindo-Aldana, G, García León, et al. COVID-19	
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children and adolescents in the early stage of reopening schools after the	
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people are under interpersonal isolation during an epidemic: A nationwide	Not relevant to PICO
multicenter cross-sectional study. European Psychiatry. 2020;63:e77.	
Wang X, Chen H, Liu L. Anxiety and Sleep Problems of College Students	N . I DICO
During the Outbreak of COVID-19. Frontiers in Psychiatry. 2020;11:588693.	Not relevant to PICO
Wearick-Silva LE, Richter SA, Viola TW, et al. Sleep quality among parents	
and their children during COVID-19 pandemic in a Southern - Brazilian sample.	
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J Pediatr (Rio J). Published Online First: 23 August 2021. doi:	
10.1016/j.jped.2021.07.002.	
Wright LJ, Williams SE, Veldhuijzen van Zanten JJCS. Physical activity	
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Zhang X, Zhu W, Kang S, et al. Association between physical activity and mood states of children and adolescents in social isolation during the COVID-19 epidemic. Int J Environ Res Public Health. 2020;17:7666.	Not relevant to PICO
Zhang X, Dimitriou D, Halstead EJ. Sleep, anxiety, and academic performance: a study of adolescents from public high schools in China. Front Psychol. 2021;12:678839.	Not relevant to PICO
Zhou J, Sie X, Guo B, et al. Impact of COVID-19 Lockdown on Physical Activity Among the Chinese Youths: The COVID-19 Impact on Lifestyle Change Survey (COINLICS). Front Public Health. 2021;9:592795.	Not relevant to PICO
Zhu S, Zhuang Y, Lee P, et al. Leisure and problem gaming behaviors among children and adolescents during school closures caused by COVID-19 in Hong Kong: quantitative cross-sectional survey study. JMIR Serious Games. 2021;9(2):e26808.	Not relevant to PICO