

Prevalence of thrombotic complications in children with SARS-CoV-2

- Supplementary material -

Search strategy

We searched 2 electronic databases, PubMed and the medical preprint server medRxiv, on November 21st, 2020. We used the following search terms in PubMed: ((stroke) OR (coagulopathy) OR (coagulation) OR (thrombosis) OR (thromboembolism) OR (thromboembolic) OR (embolism)) AND ((children[Title]) OR (child[Title]) OR (childhood[Title]) OR (paediatric[Title]) OR (pediatric[Title]) OR (paediatrics[Title]) OR (pediatrics[Title]) OR (infant[Title]) OR (infants[Title]) OR (youth[Title]) OR (youths[Title]) OR (adolescent[Title]) OR (adolescents[Title]) OR (neonate[Title]) OR (neonates[Title]) OR (newborn[Title]) OR (newborns[Title])) AND ((covid[Title]) OR (coronavirus[Title]) OR (sars[Title])). In medRxiv, we undertook separate searches for “child and covid-19” and “covid-19 and thrombosis”, as more complex Boolean searches are not available.

References of cases included from literature review:

Case 4 (included in our case series): Alberto García-Salido, Inés Leoz-Gordillo, Amelia Martínez de Azagra-Garde, Montserrat Nieto-Moro, María Isabel Iglesias-Bouzas, María Ángeles García-Teresa, et al. Children in Critical Care Due to Severe Acute Respiratory Syndrome Coronavirus 2 Infection: Experience in a Spanish Hospital. *Pediatr Crit Care Med* 2020;21.

Case 5: Odièvre M, Marcellus C, Ducou Le Pointe H, Allali S, Romain A, Youn J, et al. Dramatic improvement after tocilizumab of severe COVID-19 in a child with sickle cell disease and acute chest syndrome. *Am J Hematol* 2020;95:E192–4.

Cases 6 and 7: Schupper AJ, Yaeger KA, Morgenstern PF. Neurological manifestations of pediatric multi-system inflammatory syndrome potentially associated with COVID-19. *Child's Nerv Syst* 2020;36:1579–80.

Case 8: Visveswaran G, Morparia K, Narang S, Sturt C, Divita M, Voigt B, et al. SARS-CoV-2 Infection and Thrombosis: Phlegmasia Cerulea Dolens Presenting with Venous Gangrene in a Child. *J Pediatr* 2020. <https://doi.org/10.1016/j.jpeds.2020.07.032>.

Case 9: Oualha M, Bendavid M, Berteloot L, Corsia A, Lesage F, Vedrenne M, et al. Severe and fatal forms of COVID-19 in children. *Arch Pediatr* 2020;27:235.

Case 10: Caro-Dominguez P, Shelmerdine SC, Toso S, Secinaro A, Toma P, Damasio MB, et al. Thoracic imaging of coronavirus disease 2019 (COVID-19) in children: a series of 91 cases. *Pediatr Radiol* 2020:1–15.

Case 11: Winant AJ, Blumfield E, Liszewski MC, Kurian J, Foust A, Lee EY. Thoracic Imaging Findings of Multisystem Inflammatory Syndrome in Children (MIS-C) Associated with COVID-19: What Radiologists Need to Know Now. *Radiol Cardiothorac Imaging* 2020;2:e200346.

Case 12: Kaushik S, Ahluwalia N, Gangadharan S, Esperenza M, Murthy R, Ofori-Amanfo G, Aydin SI. ECMO support in SARS-CoV2 multisystem inflammatory syndrome in children in a child. *Perfusion*. 2020 Sep 9:267659120954386.

Case 13: Essajee F, Solomons R, Goussard P, Van Toorn R. Child with tuberculous meningitis and COVID-19 coinfection complicated by extensive cerebral sinus venous thrombosis. *BMJ Case Rep*. 2020 Sep 14;13(9):e238597.

National cohorts describing MIS-C:

USA: thrombosis in 4 (2.2%) cases.

Feldstein LR, Rose EB, Horwitz SM, Collins JP, Newhams MM, Son MBF, et al. Multisystem Inflammatory Syndrome in U.S. Children and Adolescents. *N Engl J Med* 2020;383:334–46.

UK: thrombosis in 3 (3.8%) cases.

Davies P, Evans C, Kanthimathinathan HK, Lillie J, Brierley J, Waters G, et al. Intensive care admissions of children with paediatric inflammatory multisystem syndrome temporally associated with SARS-CoV-2 (PIMS-TS) in the UK: a multicentre observational study. *Lancet Child Adolesc Heal* 2020;4:669–77.

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