

IPTA IDCARE committee

COVID-19 and Pediatric Transplant Candidates and Recipients: What do we know?

Coronavirus disease (COVID-19) caused by the novel virus, Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) has emerged since December 2019 to cause a global pandemic. Initial data in children suggest that clinical manifestations may be less severe than their adult counterparts.¹⁻⁶ Given the initial clinical spectrum of disease in COVID-19 patients and extrapolating from experience with other community respiratory viruses, there is concern that solid organ transplant (SOT) recipients, because of their underlying immunocompromise and other comorbidities, may be at increased risk for both progression to severe disease and poor overall outcomes.⁷ Despite the continued growing number of new cases, there are few reports of COVID-19 occurring in adult solid organ transplant (SOT) recipients, with generally good outcomes.⁸⁻¹⁰ Similarly, there are limited cases reported in children, even from areas with ongoing high community viral transmission; these children also reportedly had mild infections and good outcomes.¹¹ Though initial SOT-specific COVID-19 data and outcomes seem optimistic thus far, caution should be used and preventive strategies maintained by transplant candidates, recipients and their families and all healthcare workers.

The TTS IPTA Infectious Disease (IDCARE) committee continues to endorse the guidance document regarding COVID-19 for SOT clinicians put forth by the TTS Transplant Infectious Disease committee: <https://tts.org/coronavirus>.

COVID-19 resource dashboard that IPTA members may find useful:

For Patients	
Advanced Cardiac Therapies Improving Outcomes Network (ACTION)	https://www.actionlearningnetwork.org/covid19
American Academy of Pediatrics (AAP)	https://www.aap.org/en-us/about-the-aap/aap-press-room/Pages/American-Academy-of-Pediatrics-Offers-Resources-for-Families-on-Coronavirus.aspx
American Society of Transplantation (AST): Frequently asked questions for transplant candidates and recipients	https://www.myast.org/coronavirus-disease-2019-covid-19-frequently-asked-questions-transplant-candidates-and-recipients
British Liver Trust	https://britishlivertrust.org.uk/coronavirus-covid-19-health-advice-for-people-with-liver-disease-and-liver-transplant-patients/
Congenital Heart Public Health consortium via AAP	https://downloads.aap.org/AAP/PDF/CHD%20Information%20on%20Coronavirus%20Disease%202019.pdf
For Transplant providers	
AAP	https://services.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/

American Society of Nephrology	https://www.asn-online.org/ntds/
AST: Frequently asked questions for transplant centers	https://www.myast.org/information-transplant-professionals-and-community-members-regarding-2019-novel-coronavirus
AST: Town Hall Webinar on Organ Donation	https://www.youtube.com/watch?v=LUM8-vDH-kl
American Society of Transplant Surgeons: COVID-19 resources	https://asts.org/news-and-publications/asts-news/article/2020/03/26/asts-response-to-covid-19#.Xn0yKYhKiUl
Canadian consensus guidance for organ transplantation during COVID-19 pandemic	https://www.cst-transplant.ca/Library/Coronavirus/COVID-19 Consensus Guidance 20200313 FINAL.pdf
Center for Disease Control and Prevention (CDC)	https://www.cdc.gov/coronavirus/2019-nCoV/index.html
European Renal Best Practices	https://www.era-edta.org/en/covid-19-news-and-information/
European Centre for Disease Prevention and Control (ECDC)	https://www.ecdc.europa.eu/en/coronavirus/guidance-and-technical-reports https://www.ecdc.europa.eu/en/novel-coronavirus-china
German Society of Nephrology	https://www.dgfn.eu/covid-19.html
German Society of Pediatric Nephrology	https://gpn.de/gpn-register-fuer-kindernephrologische-patienten-mit-covid19-sars-cov2-infektionen/
German Society of Transplantation	http://d-t-g-online.de/index.php/covid-19
Infectious Diseases Society of America (IDSA)	https://www.idsociety.org/public-health/COVID-19-Resource-Center/
International Liver Transplant Society	https://ilts.org/education/covid-19/
International Society for Heart & Lung Transplantation (ISHLT)	https://ishlt.org/covid-19-information
National Kidney Foundation	https://www.kidney.org/coronavirus/transplant-coronavirus
Notify library	https://www.notifylibrary.org/background-documents#SARS-CoV-2
Pediatric Infectious Disease Society (PIDS)	https://www.pids.org/resources/covid-19.html
RedBook Online	https://redbook.solutions.aap.org/selfserve/sspage.aspx?selfservecontentid=rbo_outbreaks_page_3
Royal College of Paediatrics and Child Health (RCPCH)	https://www.rcpch.ac.uk/resources/covid-19-guidance-paediatric-services
The Transplantation Society (TTS), Global Transplantation COVID report	https://tts.org/index.php?option=com_content&view=article&id=696&Itemid=115
United Network for Organ Sharing (UNOS)	https://unos.org/covid/
World Health Organization (WHO)	https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance
COVID-19 articles related to:	
Curated general COVID-19 literature	https://www.ncbi.nlm.nih.gov/research/coronavirus/
Cardiothoracic Transplantation	https://www.jhltonline.org/content/covid-19?mobileUi=0

Pediatrics	https://www.ncbi.nlm.nih.gov/research/coronavirus/docsum?text=pediatric
COVID Dashboards	
Johns Hopkins University, Center for Systems Science and Engineering	https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6
Kaiser Family Foundation	https://www.kff.org/global-health-policy/fact-sheet/coronavirus-tracker/
WHO COVID-19 situation dashboard	https://experience.arcgis.com/experience/685d0ace521648f8a5beeeee1b9125cd

Keep well and stay safe,

The IPTA IDCARE committee

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