

COVID-19 resources for Radiology Program Directors

While the entire radiology community is struggling with the COVID-19 pandemic, residency training must go on. The APDR is closely monitoring multiple reliable data sources and collecting COVID-19 materials in order to support resident education and program administration

Updated: April 28, 2020

- I. **The Wellness Taskforce of the APDR** recommends resources collected by the ACR Well-Being Program group to help programs and trainees to combat the toll of COVID-19.

<https://www.acr.org/Member-Resources/Benefits/Well-Being/COVID-19-Well-Being-Resources>

The collection includes Webinars/Podcasts/Courses and Apps on

1. Mindfulness/Meditation/Self-Care
2. Arts and well-being collection, including content from 2000 museum archives, free NY Philharmonic concerts, archive shows of the Paris Opera, nightly livestream of the NY Metropolitan Opera, and London National Theater
3. Fitness (including Peloton and yoga)
4. Sleep: podcasts and apps
5. Tips on handling self-isolation and social distancing
6. Communication with children
7. Resources for leadership

- II. **4/27/20 alert by the Paediatric Intensive Care Society (PICS) of the United Kingdom** regarding increased number of cases of **novel presentation of multisystem inflammatory disease**, specifically “the cases have in common overlapping features of **toxic shock syndrome and atypical Kawasaki [1] disease** with blood parameters consistent **with severe COVID-19** in children. Abdominal pain and gastrointestinal symptoms have been a common feature as has cardiac inflammation”

<https://picsociety.uk/wp-content/uploads/2020/04/PICS-statement-re-novel-KD-C19-presentation-v2-27042020.pdf>

In practice, new Kawasaki disease and myocarditis in the pediatric population should raise the possibility of COVID-19 infection.

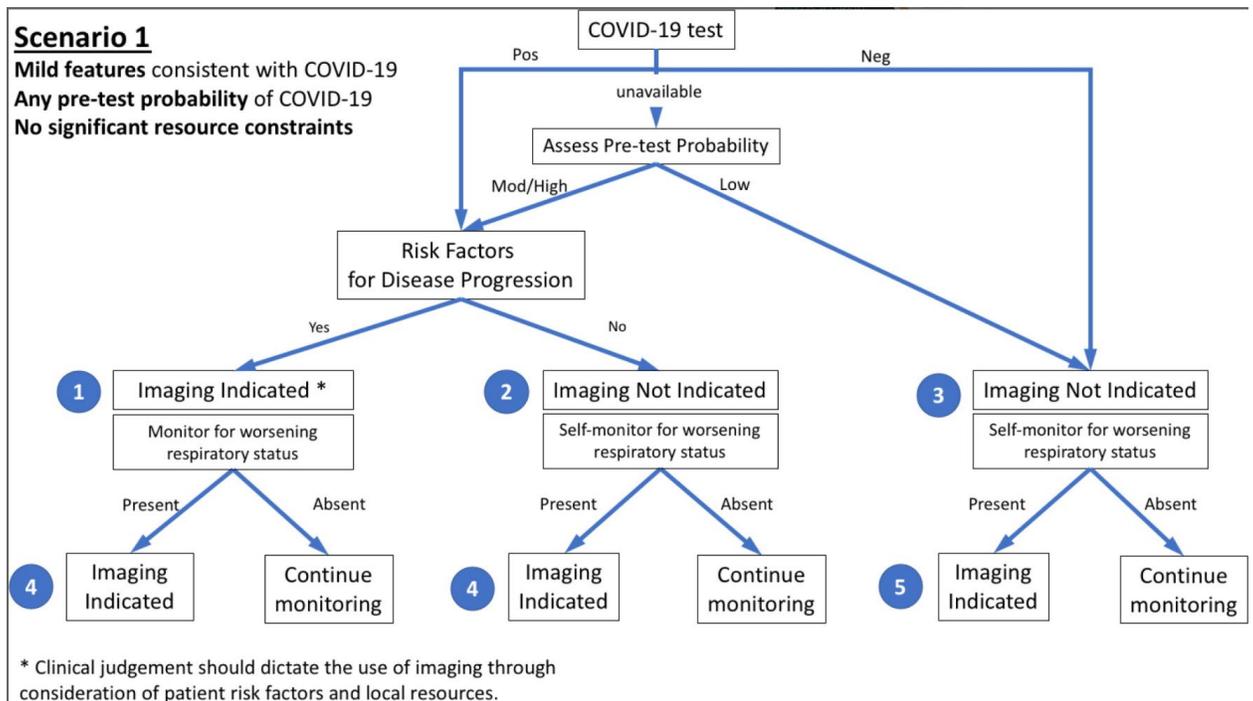
1. Jones VG, Mills M, Suarez D, et al. COVID-19 and Kawasaki disease: novel virus and novel case. *Hosp Pediatr*. 2020; doi: 10.1542/hpeds.2020-0123

III. Thromboembolic complications of COVID-19

1. Venous and arterial thromboembolic complications in COVID-19 patients admitted to an academic hospital in Milan, Italy (*Thromb Res*, 23 April 2020) [https://www.thrombosisresearch.com/article/S0049-3848\(20\)30140-7/fulltext](https://www.thrombosisresearch.com/article/S0049-3848(20)30140-7/fulltext)
2. Hematological findings and complications of COVID-19 (*Am J Haematol*, 13 April 2020) <https://onlinelibrary.wiley.com/doi/epdf/10.1002/ajh.25829>
3. Upsurge of deep venous thrombosis in patients affected by COVID-19: preliminary data and possible explanations (*J Vasc Surg Venous Lymphat Disord*, 16 April 2020) [https://www.jvsvenous.org/article/S2213-333X\(20\)30214-6/fulltext](https://www.jvsvenous.org/article/S2213-333X(20)30214-6/fulltext)
4. D-dimer levels on admission to predict in-hospital mortality in patients with Covid-19 (*J Thromb Haemost*, 19 April 2020) <https://onlinelibrary.wiley.com/doi/abs/10.1111/jth.14859>

Updated: April 9, 2020

1. RSNA COVID-19 resources <https://www.rsna.org/covid-19>
2. Radiology Preparedness for COVID-19: Radiology Scientific Expert Review Panel <https://www.youtube.com/watch?v=1T98zMYxrKU>
3. Rubin GD, Ryerson CJ, Haramati LB, et al. The Role of Chest Imaging in Patient Management during the COVID-19 Pandemic: A Multinational Consensus Statement from the Fleischner Society. **Published jointly in *Radiology* and *Chest* April 7, 2020**

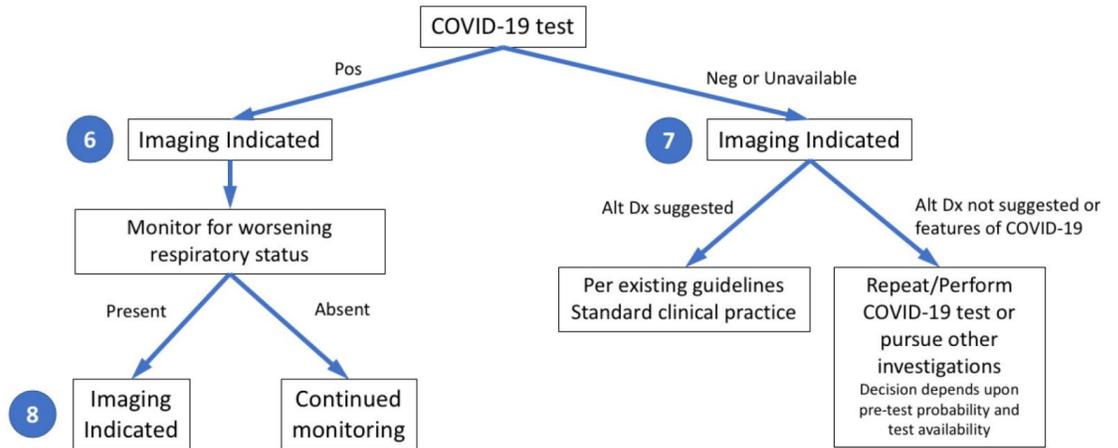


Scenario 2

Moderate to severe features consistent with COVID-19

Any pre-test probability of COVID-19

No significant resource constraints

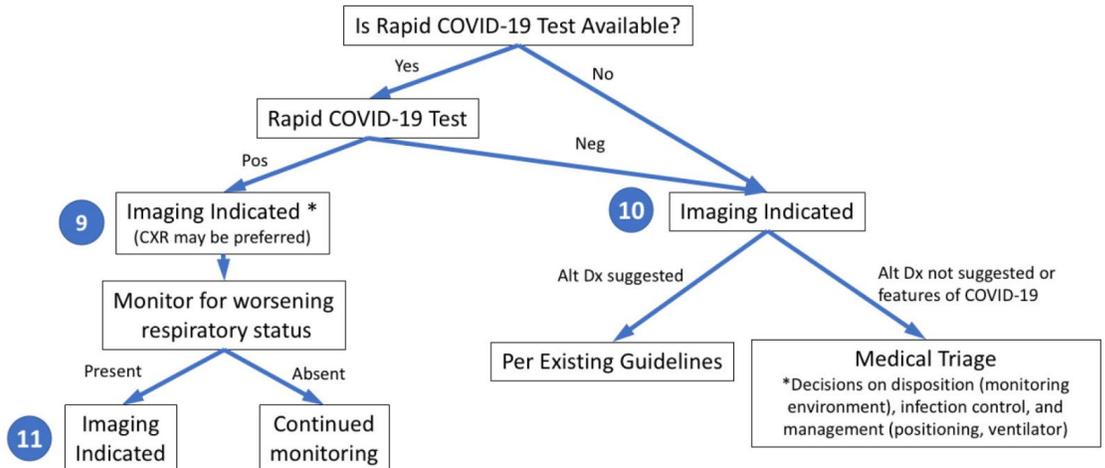


Scenario 3

Moderate to severe features consistent with COVID-19

High pre-test probability of COVID-19

Resource constrained (Need for urgent patient triage due to lack of resources – beds, ventilators, medical personnel, PPE, COVID tests)



* Lower priority if severely resource constrained, relative to 10 or 11.

Updated: March 24, 2020

1. COVID-19 teaching files and lectures for residents and faculty:
 - a. 10 COVID cases <https://coronacases.raioss.com/forum/research-consortium-coronacases-org-1?fbclid=IwAR1JFfBsK6vZvFETo4e0RPVZQtwB0uhqrsTxrirczV46hras7cSjrQwO6DA>

- b. 40 COVID cases from Italy <https://www.sirm.org/category/senza-categoria/covid-19/?fbclid=IwAR0sSrm94wCOtm37NhhQHxwdzPV4BEXr0hKDZVGnyjTNI AF7qjx5t hr-Hkl>
 - c. COVID-19 Thoracic Imaging: Findings and Recommendations
<https://www.scbtmr.org/Education/SABI-Webinars/2020-Webinar-Coronavirus>
2. What the Department of Radiology should know:
- a. Review of the epidemiology and imaging findings of coronavirus syndromes, with a focus on COVID-19 pneumonia as well as safety measures of radiology department personnel. [https://www.jacr.org/article/S1546-1440\(20\)30150-2/fulltext?_ga=2.199933358.1657462301.1585081784-2045617947.1585081784](https://www.jacr.org/article/S1546-1440(20)30150-2/fulltext?_ga=2.199933358.1657462301.1585081784-2045617947.1585081784)
 - b. Radiology Department Preparedness for COVID-19: *Radiology* Scientific Expert Panel <https://pubs.rsna.org/doi/10.1148/radiol.2020200988>
3. Rescheduling non-urgent care: “The ACR fully supports and recommends compliance with the Centers for Disease Control and Prevention (CDS) guidance that advises medical facilities to “reschedule non-urgent outpatient visits.” <https://www.acr.org/Clinical-Resources/COVID-19-Radiology-Resources>
4. The use of CT in suspected COVID-19: ACR position. “CT should not be used to screen for or as a first-line test to diagnose COVID-19. CT should be used sparingly and reserved for hospitalized, symptomatic patients with specific clinical indications for CT. Appropriate infection control procedures should be followed before scanning subsequent patients.” <https://www.acr.org/Advocacy-and-Economics/ACR-Position-Statements/Recommendations-for-Chest-Radiography-and-CT-for-Suspected-COVID19-Infection>
5. Research collections on COVID-19
- a. AJR COVID-19 special edition <https://www.ajronline.org/topic/cov19>
 - b. Radiology special focus COVID-19: <https://pubs.rsna.org/2019-nCoV>
 - c. Lancet COVID-19 resource center: <https://www.thelancet.com/coronavirus/archive>