

Evidence Discussion E-cigarette or Vaping Product Use-Associated Lung Injury (EVALI) (CH-11.2)

EVALI is a toxic inhalational acute lung injury with imaging and histopathologic patterns of organizing pneumonia and/or diffuse alveolar damage.(Kligerman 2020, Friedman 2022) Chest x-ray (CR) can exclude other diagnoses and is often the first imaging study. CR is not abnormal at initial assessment in all patients with EVALI. When pulmonary abnormalities are not identified on CR or when further characterization of CR findings are needed to evaluate for another potential cause of symptoms, CT chest can be obtained.(Kligerman 2020, Friedman 2022)

References:

1. Kligerman S, Raptis C, Larsen B, et al. Radiologic, Pathologic, Clinical, and Physiologic Findings of Electronic Cigarette or Vaping Product Use-associated Lung Injury (EVALI): Evolving Knowledge and Remaining Questions. *Radiology*. 2020;294:491-505.
2. Friedman J, Schooler G, Kwon JK, Artunduaga M, et al. Pediatric electronic cigarette or vaping product use-associated lung injury (EVALI): updates in the COVID-19 pandemic era. *Pediatric Radiology*. 2022;52:2009-2016.