

## References and Literature Grading

### Clinical Practice Statement

#### Ultrasound Should Be Strongly Considered as the Initial Imaging Modality in Acute Appendicitis in the Pediatric Patient (5/7/2013)

1. Fahimi J, Herring A, Harries A, Gonzales R, Alter H. Computed tomography use among children presenting to Emergency Departments with abdominal pain. *Pediatrics*. 2012 October 8. Epub ahead of print. Grade D. Quality Good. Retrospective registry analysis.
2. Hryhorczuk AL, Mannix RC, Taylor GA. Pediatric Abdominal Pain: use of imaging in the Emergency Department in the United States from 1999-2007. *Radiology*. 2012 Jun;263(3):778-85. Grade D. Quality Good. Retrospective registry analysis.
3. Bachur RG, Hennelly K, Callahan MJ, Monuteaux MC. Advanced radiologic imaging for pediatric appendicitis, 2005-2009. *J Pediatrics*. 2012; 160(6):1034-8. Grade D. Quality Adequate. Retrospective chart review.
4. Rosen MP, Ding A, Blake MA, et al. ACR appropriateness criteria right lower quadrant pain-suspected appendicitis. *J AM Coll Radiol*. 2011; 8:749-34. Grade B. Quality Good. Consensus statement.
5. Bachur RG, Dayan PS, Bajaj L, Macias CG, et al. The effect of abdominal pain duration on the accuracy of diagnostic imaging for pediatric appendicitis. *Ann Emerg Med*. 2012; 60(5):582-590. Grade C. Quality Good. Prospective observational.
6. Brenner DJ, Elliston CD, Hall EJ, et al 4. (2001) Estimated risks of radiation-induced fatal cancer from pediatric CT. *AJR* 176:289–296. Grade D. Quality Adequate. Registry Analysis and Extrapolation
7. Gaitini D. Imaging acute appendicitis: State of the art. *J Clin Imaging Sci*. 2011;1:49. Grade B. Quality Outstanding. Meta-analysis.
8. Abo A, Shannon M, Taylor G, Bachur R. The influence of body mass index on the accuracy of ultrasound and computed tomography in diagnosis appendicitis in children. *Pediatr Emerg Care*. 2011;27(8):731-6. Grade C. Quality Good. Prospective observational.
9. Gendel I, Gutermacher M, Buklan G, Lazar L, Kidron D, Paran H, Erez I. Relative value of clinical, laboratory, and imaging tools in diagnosing pediatric acute appendicitis. *Eur J Pediatr Surg*. 2011;21(4):229-33. Grade C. Quality Good. Retrospective chart review.
10. Krishnamoorthi R, Ramarajan N, Wang NE, Newman B, Rubesova E, Mueller CM, Barth RA.
11. Effectiveness of a staged US and CT protocol for the diagnosis of pediatric appendicitis: reducing radiation exposure in the age of ALARA. *Radiology*. 2011;259(1):231-9. Grade D. Quality Outstanding. Restrospective chart review.
12. Zakaria O, Sultan TA, Khalil TH, Whaba T. Role of clinical judgment and tissue harmonic imaging ultrasonography in diagnosis of paediatric acute appendicitis. *World J Emerg Surg*. 2011;6(1):39. Grade C. Quality Outstanding. Prospective Observational.
13. Adibe OO, Amin SR, Hansen EN, Chong AJ, Perger L, Keijzer R, Meusterer OJ, Georgeson KE, Marmon CM. An evidence-based clinical protocol for diagnosis of acute appendicitis decreased the use of CT in children. *J Pediatr Surg*. 2011;46(1):192-6. Grade A. Quality Outstanding. Prospective
14. Wan MJ, Krahn M, Ungar WJ, Caku E, Sung L, Medina LS, Doria AS. Acute appendicitis in young children: cost-effectiveness of US versus CT in diagnosis – a Markove decision analytic model. *Radiology*. 2009;250(2):378-86. Grade F. Quality outstanding. Retrospective modeling.
15. Kaiser S, Frenckner B, Jorulf HK. Suspected appendicitis in children: US and CT – a prospective randomized study. *Radiology*. 2002; 223-63-8. Grade A. Quality Good. Prospective randomized.
16. Martin AE, Vollman D, Adler B, Caniano DA. CT scan may not reduce the negative appendectomy rate in children. *J Pediatric Surgery*. 2004; 39:886-90. Grade D. Quality Good. Retrospective chart

review.

17. Partrick DA, Janik JE, Bensard DD, Karrer FM. Increased CT scan utilization does not improve the diagnostic accuracy of appendicitis in children. *J Pedatric Surgery*. 2003; 38:659-62. Grade D. Quality Good. Retrospective chart review.

18. Santillanes G, Simms S, Gausche-Hill M, Diament M, Putnam B, Renslo R, Lee J, Tinger E, Lewis R. Prospective evaluation of a clinical practice guideline for diagnosis of appendicitis in children. *Academic Emergency Medicine*. 2012; 19:886-893. Grade C. Quality Good. Prospective, non-randomized.

19. Ramarajan N, Krishnamoorthi R, Barth R, Ghanouni P, Meuller C, Dannenburg B, Wang NE. An interdisciplinary initiative to reduce radiation exposure: evaluation of appendicitis in a pediatric emergency department with clinical assessment supported by a staged ultrasound and CT pathway. *Acad Emerg Med*. 2009;16(11):1258-65. Grade D. Quality Good. Retrospective chart review.