

**Literature Search**  
**ACR Appropriateness Criteria®**  
**Abnormal Liver Function Tests**

Literature Search Performed on: 08/13/2020

Beginning Date: January 2010

End Date: July 2020

Database: Ovid MEDLINE(R) ALL <1946 to August 12, 2020>

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**Search Strategy**

- 1 amino transferase.tw. (1591)
- 2 \*alkaline phosphatase/ (17254)
- 3 conjugated hyperbilirubinemia.tw. (348)
- 4 unconjugated hyperbilirubinemia.tw. (531)
- 5 liver function tests/ (28881)
- 6 fatty liver.tw. (28017)
- 7 hepatic steatosis.tw. (9346)
- 8 cirrhosis.tw. (90373)
- 9 biliary obstruction.tw. (4896)
- 10 non-alcoholic fatty liver disease/ (12415)
- 11 toxic liver injury.mp. (259)
- 12 5 and (6 or 7 or 8 or 9 or 10 or 11) (4076)
- 13 1 or 2 or 3 or 4 or 5 (48197)
- 14 CT.tw. (339954)
- 15 MRI.tw. (241300)
- 16 ultrasound.tw. (245548)
- 17 14 or 15 or 16 (756266)
- 18 17 and (12 or 13) (1021)
- 19 limit 18 to (abstracts and english language and humans and yr="2010 -Current") (425)
- 20 limit 19 to "all child (0 to 18 years)" (85)
- 21 19 not 20 (340)
- 22 limit 21 to case reports (50)
- 23 21 not 22 (290)

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Literature Search Performed on: 05/06/2020

Beginning Date: January 2010

End Date: April 2020

Database: Ovid MEDLINE(R) ALL <1946 to May 05, 2020>

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**Search Strategy**

- 1 amino transferase.tw. (1568)
- 2 \*alkaline phosphatase/ (17183)
- 3 conjugated hyperbilirubinemia.tw. (347)
- 4 unconjugated hyperbilirubinemia.tw. (525)
- 5 liver function tests/ (28718)
- 6 fatty liver.tw. (27014)
- 7 hepatic steatosis.tw. (9035)
- 8 cirrhosis.tw. (89139)
- 9 biliary obstruction.tw. (4824)
- 10 non-alcoholic fatty liver disease/ (11760)
- 11 toxic liver injury.mp. (258)
- 12 5 and (6 or 7 or 8 or 9 or 10 or 11) (4035)
- 13 1 or 2 or 3 or 4 (19592)

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14 exp ultrasonography/ (433514)  
15 13 and 14 (78)  
16 limit 15 to (abstracts and english language and humans and yr="2010 -Current") (31)  
17 elastography.mp. (8644)  
18 13 and 17 (5)  
19 16 or 18 (33)

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Literature Search Performed on: 02/11/2020  
Beginning Date: January 2010  
End Date: January 2020  
Database: Ovid MEDLINE(R) ALL <1946 to February 10, 2020>

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**Search Strategy**

1 amino transferase.tw. (1550)  
2 \*alkaline phosphatase/ (17133)  
3 conjugated hyperbilirubinemia.tw. (341)  
4 unconjugated hyperbilirubinemia.tw. (522)  
5 liver function tests/ (28620)  
6 fatty liver.tw. (26190)  
7 hepatic steatosis.tw. (8802)  
8 cirrhosis.tw. (88261)  
9 biliary obstruction.tw. (4765)  
10 non-alcoholic fatty liver disease/ (11275)  
11 toxic liver injury.mp. (257)  
12 5 and (6 or 7 or 8 or 9 or 10 or 11) (4007)  
13 1 or 2 or 3 or 4 (19515)  
14 exp diagnostic imaging/ (2599764)  
15 14 and (12 or 13) (1832)  
16 limit 15 to (abstracts and english language and humans and yr="2010 -Current") (405)  
17 limit 16 to "all child (0 to 18 years)" (85)  
18 16 not 17 (320)  
19 limit 18 to case reports (27)  
20 18 not 19 (293)

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**Summary**

| Source                | #Unique Refs | #Retained Refs |
|-----------------------|--------------|----------------|
| Old bibliography      | 0            | 0              |
| Literature Search(es) | 505          | 3              |
| Author Added          | 71           | 62             |
| Supporting Docs       | 4            | 4              |
| Total                 |              | 69             |

References from the literature search that were not retained had a poor study design, were not relevant to the topic, or had unclear or biased results.

27 of the author added references were outside the search date range.

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