

Definition of cholangitis and management after Kasai hepatportoenterostomy for biliary atresia – phase II

INTRODUCTION

Acute cholangitis after Kasai hepatportoenterostomy is frequent. Yet, there exists no standardized definition nor management guidelines. After a first round of definition and management questions we would be very grateful if you could fill in this 2nd questionnaire to help us define cholangitis and prophylaxis/treatment policies after Kasai hepatportoenterostomy for babies with biliary atresia.

Please note that you are eligible for this survey if you manage biliary atresia patients after Kasai hepatportoenterostomy. This questionnaire will take you about 5 minutes to complete. If you have any questions, please don't hesitate to contact

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Your confidential responses to this questionnaire are very important to us. The current literature as well as your precious input will be discussed at BARD in Bruges in July 2020, with the aim to come up with a Consensus.

We thank you in advance for your much-appreciated collaboration.

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Cholangitis definition

This part of the questionnaire treats the definition of cholangitis after Kasai hepatoportoenterostomy for biliary atresia.

Q1 Rate the following elements according to their importance for your diagnosis of cholangitis after a Kasai:

Please rate it from 1 (completely unimportant) to 10 (extremely important)

- fever and/or shivering
- stool colour change (discoloration)
- new or increasing jaundice
- abdominal discomfort
- inflammatory response (white blood cell count and/or CRP and/or procalcitonin)
- bile lakes diagnosed on ultrasound
- increased/increasing transaminases
- increased/increasing GGT and/or bilirubin
- positive blood cultures

Q2 For you to suspect a cholangitis after a Kasai, the mandatory presence of following elements might be:

A. Clinical elements

- a. Fever and or shivering
- b. Stool colour change
- c. New or increasing jaundice
- d. Abdominal discomfort

B. Laboratory and imagining elements

- a. Inflammatory response (WBC and/or CRP and/or procalcitonin)
- b. Increased/increasing transaminases
- c. Increased/increasing GGT and/or bilirubin
- d. Bile lakes

Please choose the combination of elements to define a suspected cholangitis:

- ☐ 1 or more elements from A
- ☐ 2 or more elements from A
- ☐ 3 or more elements from A
- ☐ All 4 elements from A
- ☐ 1 of the 4 elements from A and 1 of the 4 elements from B
- ☐ 1 of the 4 elements from A and 2 of the 4 elements from B
- ☐ 1 of the 4 elements from A and 3 of the 4 elements from B
- ☐ 1 of the 4 elements from A and all 4 elements from B
- ☐ 2 of the 4 elements from A and 1 of the 4 elements from B
- ☐ 2 of the 4 elements from A and 2 of the 4 elements from B
- ☐ 2 of the 4 elements from A and 3 of the 4 elements from B
- ☐ 2 of the 4 elements from A and all 4 elements from B
- ☐ 3 of the 4 elements from A and 1 of the 4 elements from B
- ☐ 3 of the 4 elements from A and 2 of the 4 elements from B

- 3 of the 4 elements from A and 3 of the 4 elements from B
- 3 of the 4 elements from A and all 4 elements from B
- All 4 elements from A and 1 of the 4 element from B
- All 4 elements from A and 2 of the 4 elements from B
- All 4 elements from A and 3 the 4 elements from B
- All 4 elements from A and all 4 elements from B

Q11 For you to define a confirmed cholangitis after a Kasai, the mandatory presence of following elements might be:

A. clinical elements

- a. Fever and or shivering**
- b. Stool colour change**
- c. New or increasing jaundice**
- d. Abdominal discomfort**

B. laboratory and imagining elements

- a. Inflammatory response (WBC and/or CRP and/or procalcitonin)**
- b. Increased/increasing transaminases**
- c. Increased/increasing GGT and/or bilirubin**
- d. Bile lakes**

Please choose the combination of elements to define a confirmed cholangitis:

- 1 or more elements from A
- 2 or more elements from A
- 3 or more elements from A
- All 4 elements from A
- 1 of the 4 elements from A and 1 of the 4 elements from B
- 1 of the 4 elements from A and 2 of the 4 elements from B
- 1 of the 4 elements from A and 3 of the 4 elements from B
- 1 of the 4 elements from A and all 4 elements from B
- 2 of the 4 elements from A and 1 of the 4 elements from B
- 2 of the 4 elements from A and 2 of the 4 elements from B
- 2 of the 4 elements from A and 3 of the 4 elements from B
- 2 of the 4 elements from A and all 4 elements from B
- 3 of the 4 elements from A and 1 of the 4 elements from B
- 3 of the 4 elements from A and 2 of the 4 elements from B
- 3 of the 4 elements from A and 3 of the 4 elements from B
- 3 of the 4 elements from A and all 4 elements from B
- All 4 elements from A and 1 of the 4 elements from B
- All 4 elements from A and 2 of the 4 elements from B
- All 4 elements from A and 3 the 4 elements from B
- All 4 elements from A and all 4 elements from B

Antibiotic prophylaxis

This part of the questionnaire treats the use of antibiotics in a normal, standard postoperative setting after a Kasai hepatopertoenterostomy.

Q1 For how long do you keep intravenous antibiotic prophylaxis following a Kasai?

- ☐ None
- ☐ 1 week or less
- ☐ 10 days
- ☐ 2 weeks
- ☐ 3 weeks
- ☐ 1 month
- ☐ 3 months
- ☐ 6 months
- ☐ Other: please specify

Q1 For how long do you keep peroral antibiotic prophylaxis following a Kasai?

- ☐ None
- ☐ 1 week or less
- ☐ 10 days
- ☐ 2 weeks
- ☐ 3 weeks
- ☐ 1 month
- ☐ 3 months
- ☐ 6 months
- ☐ 1 year
- ☐ Other: please specify

Cholangitis treatment

This part of the questionnaire treats the use of antibiotics in case of a suspected (Q1) or confirmed (Q2) cholangitis at *any* time after the Kasai hepatoportoenterostomy.

Q1 For how long do you give intravenous antibiotic treatment for a suspected cholangitis after a Kasai?

- ☐ 3 days
- ☐ 1 week
- ☐ 2 weeks
- ☐ 3 weeks
- ☐ 1 month

Q2 For how long would you give intravenous antibiotic treatment for a confirmed cholangitis following Kasai hepatoportoenterostomy for biliary atresia?

- ☐ 1 week
- ☐ 10 days
- ☐ 3 weeks
- ☐ 1 month
- ☐ 3 months
- ☐ 6 months
- ☐ 1 year

Q3 After how many cholangitis episodes do you give long term cholangitis prophylaxis?

- ☐ 1

- 2
- 3
- 4
- 5