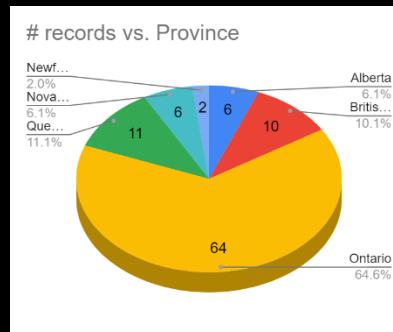
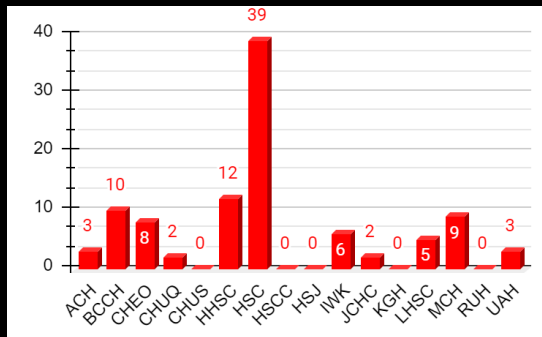


Progress on CBAR Data

Nationally, we have collected data for 99 patients.

We plan to submit an abstract to CAPS 2021.



Website

The website will be updated over the course of the year. Please send suggestions.

cbar.ca

Parent Committee

George & Elena will work on reinvigoration of the parent committee this Spring. We will look at how to better communicate, advertise and help support families of children with biliary atresia through resources.

New CBAR Coordinator



We would like to thank Crystal Ng for her assistance with CBAR over the years.

We also welcome Elena Guadagno as the new CBAR coordinator. Elena's interest in advancing research and care for biliary atresia patients is both from a professional and personal perspective – her firstborn, now a teenager, was diagnosed with biliary atresia at the Montreal Children's hospital and underwent a successful Kasai procedure. She will be responsible for working with CBAR site investigators, abstractors, and the Steering Committee.

If you have any questions or concerns about case entry on REDCap, REB, or other issues, please do not hesitate to contact her at elena.guadagno@muhc.mcgill.ca



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Recent Publications by CBAR Members

Province-wide Biliary Atresia Home Screening Program in British Columbia: Evaluation of First 2 Years.

Woolfson JP, Schreiber RA, Butler AE, MacFarlane J, Kaczorowski J, Masucci L, Bryan S, Collet JP.J
Pediatr Gastroenterol Nutr. 2018 Jun;66(6):845-849. PMID: 29570556

Familial biliary atresia in three siblings including twins.

Smith BM, Laberge JM, Schreiber R, Weber AM, Blanchard H.J Pediatr Surg. 1991 Nov;26(11):1331-3.
doi: 10.1016/0022-3468(91)90613-x. PMID: 1812269

Knowledge Updates

Reviews

Biliary Atresia: Clinical and Research Challenges for the Twenty-First Century.

Bezerra JA, Wells RG, Mack CL, Karpen SJ, Hoofnagle JH, Doo E, Sokol RJ.Hepatology. 2018
Sep;68(3):1163-1173. doi: 10.1002/hep.29905.PMID: 29604222 Free PMC article. Review.

Recent advances in understanding biliary atresia.

Wehrman A, Waisbourd-Zinman O, Wells RG.F1000Res. 2019 Feb 25;8:F1000 Faculty Rev-218. doi:
10.12688/f1000research.16732.1. eCollection 2019.PMID: 30828434 Free PMC article. Review.

Biliary atresia: pathology, etiology and pathogenesis.

Vij M, Rela M.Future Sci OA. 2020 Mar 17;6(5):FSO466. doi: 10.2144/fsoa-2019-
0153.PMID: 32518681 Free PMC article. Review.

Liver transplantation for biliary atresia: a systematic review.

Kasahara M, Umeshita K, Sakamoto S, Fukuda A, Furukawa H, Uemoto S.Pediatr Surg Int. 2017
Dec;33(12):1289-1295. doi: 10.1007/s00383-017-4173-5. Epub 2017 Oct 5. PMID: 28983725 Review.

Screening for biliary atresia.

Matsui A.Pediatr Surg Int. 2017 Dec;33(12):1305-1313. doi: 10.1007/s00383-017-4175-3. Epub 2017 Oct
5.PMID: 28983697 Review.

Newborn Screening for Biliary Atresia.

Schreiber RA.JAMA. 2020 Mar 24;323(12):1137-1138. doi: 10.1001/jama.2020.2727.PMID: 32207779

Diagnostic Yield of Newborn Screening for Biliary Atresia Using Direct or Conjugated Bilirubin
Measurements.

Harpavat S, Garcia-Prats JA, Anaya C, Brandt ML, Lupo PJ, Finegold MJ, Obuobi A, ElHennawy AA,
Jarriel WS, Shneider BL.JAMA. 2020 Mar 24;323(12):1141-1150. doi:
10.1001/jama.2020.0837.PMID: 32207797 Free PMC article

Meta-Analysis

Early differential diagnosis methods of biliary atresia: a meta-analysis.



La Fondation de l'Hôpital
de Montréal pour enfants



The Montreal Children's
Hospital Foundation



Wang L,

J.Pediatr Surg Int. 2018 Apr;34(4):363-380. doi: 10.1007/s00383-018-4229-1. Epub 2018 Feb 3. PMID: 29397405 Review.

Yang Y, Chen Y, Zhan

Glucocorticosteroids for infants with biliary atresia following Kasai portoenterostomy.

Tyraskis A, Parsons C, Davenport M. Cochrane Database Syst Rev. 2018 May 14;5(5):CD008735. doi: 10.1002/14651858.CD008735.pub3. PMID: 29761473 Free PMC article. Review.

Biliary atresia in twins: a systematic review and meta-analysis.

Xu X, Zhan J. J.Pediatr Surg Int. 2020 Aug;36(8):953-958. doi: 10.1007/s00383-020-04690-4. Epub 2020 Jun 5. PMID: 32504124

Comparison of laparoscopic portoenterostomy and open portoenterostomy for the treatment of biliary atresia.

Li Y, Gan J, Wang C, Xu Z, Zhao Y, Ji Y. Surg Endosc. 2019 Oct;33(10):3143-3152. doi: 10.1007/s00464-019-06905-9. Epub 2019 Jun 12. PMID: 31190228

Diagnostic Performance of Sonographic Features in Patients With Biliary Atresia: A Systematic Review and Meta-analysis.

Yoon HM, Suh CH, Kim JR, Lee JS, Jung AY, Cho YA. J Ultrasound Med. 2017 Oct;36(10):2027-2038. doi: 10.1002/jum.14234. Epub 2017 May 27. PMID: 28556285 Review.

Association between rs17095355 polymorphism on 10q24 and susceptibility to biliary atresia: a meta-analysis.

Li J, Gao W, Zuo W, Liu X. J Matern Fetal Neonatal Med. 2017 Aug;30(15):1882-1886. doi: 10.1080/14767058.2016.1228102. Epub 2016 Sep 7. PMID: 27557278 Review.

Efficacy and safety of Yinchen Sini decoction in treating biliary atresia patients after Kasai portoenterostomy: A systematic review and meta-analysis protocol.

Chen G, Huang C, Lu J, Huang R, Zhang J, Chen Z, Xu H. Medicine (Baltimore). 2019 Jan;98(2):e13935. doi: 10.1097/MD.00000000000013935. PMID: 30633169 Free PMC article.

Comparison of liver transplantation outcomes in biliary atresia patients with and without prior portoenterostomy: A meta-analysis.

Wang P, Xun P, He K, Cai W. Dig Liver Dis. 2016 Apr;48(4):347-52. doi: 10.1016/j.dld.2015.11.021. Epub 2015 Dec 2. PMID: 26748427 Review.

Ultrasound for the Diagnosis of Biliary Atresia: A Meta-Analysis.

Zhou L, Shan Q, Tian W, Wang Z, Liang J, Xie X. AJR Am J Roentgenol. 2016 May;206(5):W73-82. doi: 10.2214/AJR.15.15336. Epub 2016 Mar 24. PMID: 27010179

Adjuvant steroid treatment following Kasai portoenterostomy and clinical outcomes of biliary atresia patients: an updated meta-analysis.

Zhang MZ, Xun PC, He K, Cai W.

The value of preoperative liver biopsy in the diagnosis of extrahepatic biliary atresia: A systematic review and meta-analysis.

Lee JY, Sullivan K, El Demellawy D, Nasr A. J Pediatr Surg. 2016 May;51(5):753-61. doi: 10.1016/j.jpedsurg.2016.02.016. Epub 2016 Feb 13. PMID: 26932252 Review.

Comparison of different noninvasive diagnostic methods for biliary atresia: a meta-analysis.



Clinical Trials

[Impact of Steroid Therapy on Early Growth in Infants with Biliary Atresia: The Multicenter Steroids in Biliary Atresia Randomized Trial.](#)

Alonso EM, Ye W, Hawthorne K, Venkat V, Loomes KM, Mack CL, Hertel PM, Karpen SJ, Kerkar N, Molleston JP, Murray KF, Romero R, Rosenthal P, Schwarz KB, Shneider BL, Suchy FJ, Turmelle YP, Wang KS, Sherker AH, Sokol RJ, Bezerra JA, Magee JC; ChiLDReN Network. J Pediatr. 2018 Nov;202:179-185.e4. doi: 10.1016/j.jpeds.2018.07.002. Epub 2018 Sep 21. PMID: 30244988 Free PMC article. Clinical Trial. RCT

[A Phase I/IIa Trial of Intravenous Immunoglobulin Following Portoenterostomy in Biliary Atresia.](#)

Mack CL, Spino C, Alonso EM, Bezerra JA, Moore J, Goodhue C, Ng VL, Karpen SJ, Venkat V, Loomes KM, Wang K, Sherker AH, Magee JC, Sokol RJ; The ChiLDReN Network. J Pediatr Gastroenterol Nutr. 2019 Apr;68(4):495-501. doi: 10.1097/MPG.0000000000002256. PMID: 30664564 Free PMC article. Clinical Trial.

[Leukocyte mitochondrial DNA copy number as a potential biomarker indicating poor outcome in biliary atresia and its association with oxidative DNA damage and telomere length.](#)

Udomsinprasert W, Poovorawan Y, Chongsrisawat V, Vejchapipat P, Jittikoon J, Honsawek S. Mitochondrion. 2019 Jul;47:1-9. doi: 10.1016/j.mito.2019.04.006. Epub 2019 Apr 20. PMID: 31014977 Clinical Trial.

[Initial assessment of the infant with neonatal cholestasis-Is this biliary atresia?](#)

Shneider BL, Moore J, Kerkar N, Magee JC, Ye W, Karpen SJ, Kamath BM, Molleston JP, Bezerra JA, Murray KF, Loomes KM, Whittington PF, Rosenthal P, Squires RH, Guthery SL, Arnon R, Schwarz KB, Turmelle YP, Sherker AH, Sokol RJ; Childhood Liver Disease Research Network. PLoS One. 2017 May 11;12(5):e0176275. doi: 10.1371/journal.pone.0176275. eCollection 2017. PMID: 28493866 Free PMC article. Clinical Trial.

[The Application of a Shorter Loop in Kasai Portoenterostomy Reconstruction for Ohi Type III Biliary Atresia: A Prospective Randomized Controlled Trial.](#)

Xiao H, Huang R, Chen L, Diao M, Li L. J Surg Res. 2018 Dec;232:492-496. doi: 10.1016/j.jss.2018.07.002. Epub 2018 Jul 25. PMID: 30463763 Clinical Trial. RCT

[A prospective study comparing laparoscopic and conventional Kasai portoenterostomy in children with biliary atresia.](#)

Sun X, Diao M, Wu X, Cheng W, Ye M, Li L. J Pediatr Surg. 2016 Mar;51(3):374-8. doi: 10.1016/j.jpedsurg.2015.10.045. Epub 2015 Oct 20. PMID: 26589186 Clinical Trial. RCT

[A prospective study comparing laparoscopic and conventional Kasai portoenterostomy in children with biliary atresia.](#)

Sun X, Diao M, Wu X, Cheng W, Ye M, Li L. J Pediatr Surg. 2016 Mar;51(3):374-8. doi: 10.1016/j.jpedsurg.2015.10.045. Epub 2015 Oct 20. PMID: 26589186 Clinical Trial.



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