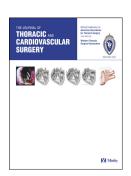
Accepted Manuscript

Autosomal Dominant Mannose-Binding Lectin (MBL) Deficiency is Associated with Worse Neurodevelopmental Outcomes After Cardiac Surgery in Infants

Daniel Seung Kim, Ph.D., M.P.H., A.B Yatong K. Li, Jerry H. Kim, M.D., M.P.H., Curtis Bergquist, M.D., Marsha Gerdes, Ph.D., Judy C. Bernbaum, M.D., M.S.N Nancy Burnham, Donna M. McDonald-McGinn, M.S., Elaine H. Zackai, M.D., Susan C. Nicolson, M.D., Thomas L. Spray, M.D., Deborah A. Nickerson, Ph.D., Hakon Hakonarson, M.D., Ph.D., Gail P. Jarvik, M.D., Ph.D., J. William Gaynor, M.D.



PII: S0022-5223(17)31796-8

DOI: 10.1016/j.jtcvs.2017.08.035

Reference: YMTC 11855

To appear in: The Journal of Thoracic and Cardiovascular Surgery

Received Date: 24 February 2017

Revised Date: 1 July 2017

Accepted Date: 3 August 2017

Please cite this article as: Kim DS, Li . YK, Kim JH, Bergquist C, Gerdes M, Bernbaum JC, Burnham . N, McDonald-McGinn DM, Zackai EH, Nicolson SC, Spray TL, Nickerson DA, Hakonarson H, Jarvik GP, Gaynor JW, Autosomal Dominant Mannose-Binding Lectin (MBL) Deficiency is Associated with Worse Neurodevelopmental Outcomes After Cardiac Surgery in Infants, *The Journal of Thoracic and Cardiovascular Surgery* (2018), doi: 10.1016/j.jtcvs.2017.08.035.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

1	Autosomal Dominant Mannose-Binding Lectin (MBL) Deficiency is
2	Associated with Worse Neurodevelopmental Outcomes After Cardiac
3	Surgery in Infants
	Daniel Seung Kim, Ph.D., M.P.H. ¹⁻³ , Yatong K. Li, A.B. ³ , Jerry H. Kim, M.D., M.P.H. ⁴ , Curtis
4 5	Bergquist, M.D. ⁵ , Marsha Gerdes, Ph.D. ⁶ , Judy C. Bernbaum, M.D. ⁶ , Nancy Burnham, M.S.N. ⁷ ,
<i>5</i>	Donna M. McDonald-McGinn, M.S. ⁸ , Elaine H. Zackai, M.D. ⁸ , Susan C. Nicolson, M.D. ⁹ ,
7	Thomas L. Spray, M.D., Deborah A. Nickerson, Ph.D., Hakon Hakonarson, M.D., Ph.D., Gail
8	P. Jarvik, M.D., Ph.D. ^{1, 2} , and J. William Gaynor, M.D. ⁷
9	1. darvik, ivi.b., 1 11.b. , and 0. vviiiiam Gaynor, ivi.b.
10	Departments of Medicine (Division of Medical Genetics) ¹ , Genome Sciences ² , and
11	Anesthesiology and Pain Medicine ⁴ ,
12	University of Washington, Seattle, WA.
13	and
14	Departments of Biostatistics ³ and Surgery (Section of Thoracic Surgery) ⁵ ,
15	University of Michigan, Ann Arbor, MI.
16	and
17	Department of Pediatrics ⁶ , Divisions of Cardiothoracic Surgery ⁷ , Genetics ⁸ , Cardiothoracic
18	Anesthesiology ⁹ , and the Center for Applied Genomics ¹⁰ ,
19	The Children's Hospital of Philadelphia and the Perelman School of Medicine, University of
20	Pennsylvania, Philadelphia, PA
21	Provided at the Contemptal Months of the Association for Theoretic Community
22 23	Presented at the Centennial Meeting of the American Association for Thoracic Surgery in
23 24	Boston, MA
25	Conflicts of Interest: DMM-M has presented lectures on 22q11.2 deletion syndrome for
26	Natera. All other authors declare no conflicts of interest.
27	Sources of Funding: This work was supported by a grant from the Fannie E. Rippel
28	Foundation, an American Heart Association National Grant-in-Aid (9950480N), NIH HL071834,
29	and a Washington State Life Sciences Discovery Award to the Northwest Institute for Genetic
30	Medicine. DSK was supported by NIH 1F31MH101905-01, T32HL007312 and AHA
31	16POST27250048. JHK was supported by NCRR Grant KL2 TR000421.
32	
33	Address for Correspondence:
34	J. William Gaynor, M.D.
35	Division of Cardiothoracic Surgery
36	Room 8527 Main Building
37	34 th Street and Civic Center Boulevard
38	Philadelphia, PA 19104-4399
39	Phone: 1-215-590-2708 / Fax: 1-215-590-2715
40 41	Email: gaynor@email.chop.edu
42	Word Count: 3287/3500
43	Abstract: 248/250
44	Ultra-mini Abstract: 49/50
45	References: 34/35
46	
47	Abbreviations: CHD, congenital heart disease; CPB, cardiopulmonary bypass; DHCA, deep
48	hypothermic circulatory arrest; ECMO, extracorporeal membrane oxygenation; LOS, length of
49	stay; MAF, minor allele frequency; MBL, mannose-binding lecithin; MIM: Mendelian Inheritance
50	in Man.

Download English Version:

https://daneshyari.com/en/article/8670920

Download Persian Version:

https://daneshyari.com/article/8670920

<u>Daneshyari.com</u>