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3 Title: Screen for OTC Deficiency  
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5 Introduced by: Nabiha Hashmi for the Medical Student Section  
6  
7 Original Authors: Erica Chang, Nardin Derias, Michelle Fedorowicz, and Kylee Kus  
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9 Referred to: Reference Committee D  
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11 House Action: **APPROVED**  
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13  
14 Whereas, all infants born in Michigan are screened for fifty-six disorders and hearing loss<sup>1</sup>, and

15  
16 Whereas, Michigan newborn screening currently costs \$125.83 per baby in the state of Michigan<sup>2</sup>,  
17 and

18  
19 Whereas, one in 400 to 500 births results in a baby with a detected disorder found through this  
20 screen<sup>3</sup>, and

21  
22 Whereas, the prevalence of ornithine transcarbamylase deficiency (OTC) ranges from 1 in 14,000 to  
23 1 in 77,000 people<sup>4</sup>, and

24  
25 Whereas, OTC deficiency is the most common urea cycle disorder and one of the few not screened  
26 for in the Michigan newborn screening<sup>5</sup>, and

27  
28 Whereas, OTC can be screened for using the heel prick test<sup>6</sup>, and

29  
30 Whereas, states including California, Connecticut, Florida, Maine, Massachusetts, New Hampshire,  
31 Rhode Island, Tennessee, and Vermont mandate that OTC be included in routine baby screens<sup>6,7</sup>, and

32  
33 Whereas, OTC presents with vomiting, progressive lethargy, and irritability and can be missed<sup>8</sup>, and

34  
35 Whereas, hyperammonemia resulting from untreated OTC deficiency can lead to severe neurologic  
36 abnormalities<sup>8,9</sup>, and

37  
38 Whereas, early detection and treatment of OTC deficiency can promote better outcomes; therefore  
39 be it

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41 RESOLVED: That MSMS advocate for the inclusion of the ornithine transcarbamylase deficiency in  
42 Michigan newborn screening.  
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44  
45 WAYS AND MEANS COMMITTEE FISCAL NOTE: NONE

**Relevant MSMS Policy:** None

<sup>1</sup> [http://www.michigan.gov/mdhhs/0,5885,7-339-73971\\_4911\\_4916-233939--,00.html](http://www.michigan.gov/mdhhs/0,5885,7-339-73971_4911_4916-233939--,00.html)

<sup>2</sup> Ibid

<sup>3</sup> Ibid

<sup>4</sup> <https://ghr.nlm.nih.gov/condition/ornithine-transcarbamylase-deficiency#statistics>

<sup>5</sup> [http://www.michigan.gov/mdhhs/0,5885,7-339-73971\\_4911\\_4916-233939--,00.html](http://www.michigan.gov/mdhhs/0,5885,7-339-73971_4911_4916-233939--,00.html)

<sup>6</sup> <http://www.babysfirsttest.org/newborn-screening/conditions/ornithine-transcarbamylase-deficiency>

<sup>7</sup> <https://www.ncbi.nlm.nih.gov/books/NBK154378/>

<sup>8</sup> <https://rarediseases.org/rare-diseases/ornithine-transcarbamylase-deficiency/>

<sup>9</sup> <https://pedclerk.bsd.uchicago.edu/page/urea-cycle-defects-ucd>