

1 OHIO STATE MEDICAL ASSOCIATION HOUSE OF DELEGATES
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3 Resolution No. 35 – 2024
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5 **Introduced by:** Medical Student Section
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7 **Subject:** Increasing Awareness of Harmful Algal Bloom Toxicity
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9 **Referred to:** Resolutions Committee No. 2
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13 **WHEREAS**, harmful algal blooms (HABs) have been plaguing both marine
14 and freshwaters globally, and are especially concentrated in Lake Erie¹; and
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16 **WHEREAS**, the alarming emergence of HABs have thus far harmed
17 humans, animals, and environments through the release and accumulation of toxins
18 in water¹; and
19

20 **WHEREAS**, toxins produced by cyanobacterial HABs can enter the human
21 body through ingestion of contaminated water, direct skin contact during swimming,
22 and aerosol inhalation²; and
23

24 **WHEREAS**, exposure to cyanotoxins can cause acute health effects, such as
25 nausea, vomiting, headache, fever, and rashes, which may be exacerbated in patients
26 with pre-existing or chronically diseased states³; and
27

28 **WHEREAS**, microcystin and cylindrospermopsin are primary cyanotoxins
29 responsible for gastrointestinal illness and severe liver and kidney damage⁴; and
30

31 **WHEREAS**, the Ohio Environmental Protection Agency (EPA) issues frequent
32 public drinking water advisories to alert individuals when the consumption of tap water
33 may pose health risks from elevated levels of microcystin, cylindrospermopsin,
34 anatoxin-a, or saxitoxin⁵; and
35

36 **WHEREAS**, the Centers for Disease Control and Prevention (CDC) initiated the
37 One Health Harmful Algal Bloom System (OHHABS), which found that 18 states,
38 including Ohio, reported a total of 421 HAB events, 389 instances of human illness, and
39 413 cases of animal illness; between 2016 and 2018⁶; and
40

41 **WHEREAS**, according to a 2020 report from the CDC, 13 states, including Ohio,
42 reported 227 HABs that resulted in 95 human illnesses, including gastrointestinal,
43 respiratory, and dermal, and 1,170 animal illnesses⁷; and
44

45 **WHEREAS**, three pediatric patient cases of HAB poisoning were identified in the
46 Western Lake Erie Basin between 2014-2016⁸; and

47
48 **WHEREAS**, HAB has its own International Classification of Diseases (ICD)
49 Code, “ICD-10-CM Code for Contact with and (suspected) exposure to harmful algae
50 and algae toxins Z77.121”⁹; and

51
52 **WHEREAS**, the Ohio Department of Health “Screen for Green” program supplies
53 providers with an algorithm and factsheet on how to recognize HAB exposure in
54 potential patients¹⁰; and

55
56 **WHEREAS**, the anticipated costs of digestive and respiratory illnesses
57 attributable to HABs are estimated to range from \$86 to \$14,600 per illness, which
58 includes treatment expenses, income reduction, loss of productivity, and the costs
59 associated with quality of life¹¹; and

60
61 **WHEREAS**, cyanobacteria have also been found to disrupt ecosystems by
62 polluting drinking water sources, depleting oxygen for aquatic organisms, and
63 contaminating seafood with algal toxins¹¹; and

64
65 **WHEREAS**, in August 2014, Ohio declared a state of emergency in response to
66 algal toxin contamination affecting the City of Toledo's water supply¹²; and

67
68 **WHEREAS**, during the emergency state, a “do not drink” advisory was issued in
69 Toledo, Ohio, due to elevated levels of cyanobacteria in treated drinking water
70 sources¹³; and

71
72 **WHEREAS**, HAB events in Lake Erie can pose serious economic ramifications,
73 such as in August 2014, where a single bloom led to a \$65 million loss in the United
74 States¹³; and

75
76 **WHEREAS**, over the course of September, 2015, one HAB outbreak spanning
77 600 miles along the Ohio River incurred a daily cost of \$7,700 for water treatment
78 plants in Cincinnati to ensure the safety of drinking water¹⁴; and

79
80 **WHEREAS**, Lake Erie HAB breakouts are becoming more frequent and potent,
81 as evidenced by the severity index, which measures the biomass of a bloom over its
82 spatial extent and assesses values above 7 as “particularly severe”^{15,16}; and

83
84 **WHEREAS**, the severity index values recorded for the cyanobacterial blooms in
85 Western Lake Erie suggest relatively severe figures, registering at 8 in 2017, 7.3 in
86 2019, and 6.8 in 2022^{15,16}; and

87
88 **WHEREAS**, HAB events continue to pose threats to Ohio’s water supply, as
89 seen in recent breakouts, which polluted water sources, gave rise to extensive dead
90 zones, adversely affected fish, deterred swimmers and boaters, and led to a decline in
91 the values of lakefront properties¹⁷; and

92

93 **WHEREAS**, for each incremental rise of 1 µg/L in Lake Erie HAB levels, lakeside
94 property values are found to drop by 1.7%, which is equivalent to a reduction of
95 \$2,205¹⁸; and

96
97 **WHEREAS**, changes in the climate may lead to more optimal conditions for HAB
98 events due to higher water temperatures and increased stormwater runoff of
99 nutrients¹⁹; and

100
101 **WHEREAS**, nutrients such as phosphorus and nitrogen, sourced from
102 agricultural fertilizers, sewage, and runoff from industrial facilities, contribute to the
103 rapid growth of HABs²⁰; and

104
105 **WHEREAS**, the 2023 Western Lake Erie HAB Seasonal Assessment reports
106 that the total bioavailable phosphorus load accumulated in the Maumee River was 230
107 metric tons as of July 31st²¹; and

108
109 **WHEREAS**, in 2015, Ohio, Michigan, and the Canadian province of Ontario
110 entered into the Western Basin of Lake Erie Collaborative Agreement, pledging to
111 decrease nutrient levels entering the lake by 40% by 2025²²; and

112
113 **WHEREAS**, according to the Ohio State Medical Association, in 2021,
114 Governor DeWine enacted a two-year budget bill, which directed \$170 million for the
115 H2Ohio initiative, a water quality plan aimed at addressing water contaminants,
116 mitigating algal blooms, and enhancing Ohio's wastewater infrastructure²³; and

117
118 **WHEREAS**, the United States EPA approved a plan in September 2023 to
119 limit phosphorus runoff into the Maumee River, which drains into the Western Basin
120 of Lake Erie, in order to reduce harmful algal blooms²⁴; and

121
122 **WHEREAS**, the National Integrated Drought Information System
123 Reauthorization Act of 2018 authorizes the renewal of the Harmful Algal Bloom and
124 Hypoxia Research and Control Act (HABHRCA) to further understand, predict, and
125 analyze HABs^{25,26}; and

126
127 **WHEREAS**, the 2022 Report to Congress from the National Oceanic and
128 Atmospheric Administration mandates biennial updates on HABHRCA progress in
129 the Great Lakes region²⁷; and

130
131 **WHEREAS**, HAB breakouts result in an estimated annual economic loss of
132 approximately \$82 million due to declines in fishing and tourism activities in the
133 affected region²⁸; and

134
135 **WHEREAS**, the estimated average yearly economic repercussions of HABs
136 in the United States ranges between \$10-100 million and costs from a single
137 significant HAB event can incur costs amounting tens of millions of dollars²⁹; and
138 therefore

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BE IT RESOLVED, that our OSMA supports ongoing research into the human health effects of harmful algal contaminated water; and be it further

RESOLVED, that our OSMA supports initiatives to promote awareness of the harmful effects of algal blooms and be it further

RESOLVED, that our OSMA supports legislation to reduce nutrient runoff from factory farms and other commercial practices negatively impacting Lake Erie and other waterways.

Fiscal Note: \$ (Sponsor)
 \$ 50,000 (Staff)

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275 31. AMA Policy: H-135.928 – Safe Drinking Water
276 32. AMA Policy: H-135.934 – EPA and Green House Gas Regulation

277 33. H-135.943 – Expansion of Hazardous Waste Landfills Over Aquifers

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280 OSMA Policy:

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282 **Policy 12 – 2023 – Supporting Environmental Sustainability in Hospitals and**
283 **Physician Offices**

284 The OSMA (1) supports initiatives to promote environmental sustainability by
285 healthcare facilities and entities across Ohio, and (2) supports physicians seeking to
286 adopt programs for environmental sustainability in their practices.

287

288 **Policy 7 – 2023 – Establishing Support for the Regulation of Endocrine**
289 **Disrupting Chemicals in Food, Agricultural, and Household Products**

290 OSMA supports the investigation and regulation of the use of endocrine-disrupting
291 chemicals in food, agricultural, and household products.

292

293 **Policy 24 – 2010 – Updating of the Safe Drinking Water Act**

294 (reaffirmed at the 2019 OSMA House of Delegates)

295 The OSMA shall petition the appropriate state agencies to identify those local water
296 utilities at risk and to take appropriate steps to assure safe drinking water.

297

298 **Policy 03 – 2018 – Pursuit of a Strategic Partnership with the Ohio Public**
299 **Health Association**

300 1. The OSMA create a formal partnership, establishing an open line of communication,
301 with the Ohio Public Health Association for medical students and physicians. 2. The
302 OSMA support policies and initiatives that may, based on reasonable evidence,
303 produce population health improvements, as well as incentivize healthcare providers,
304 hospitals, clinics, and other healthcare facilities to engage in health promotion

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306 **Policy 27 – 2022 – Recognition of Climate Change as a Threat to Ohio’s Health**

307 1. The OSMA encourages the development of policy to combat climate change and its
308 health effects in Ohio and to mitigate the undesirable environmental conditions that
309 damage Ohioans’ health. 2. The OSMA encourages education of the broader Ohio
310 medical community to the serious adverse health effects of climate change and local
311 conditions of climate variation.

312