AMERICAN MEDICAL ASSOCIATION HOUSE OF DELEGATES

Resolution: 404
(A-24)

Introduced by: Medical Student Section

Subject: Protections Against Surgical Smoke Exposure

Referred to: Reference Committee D

Whereas, surgical smoke refers to smoke produced by electrical surgical devices in the operating room, which can pose an occupational hazard to healthcare workers\(^1,2,3\); and

Whereas, the carcinogenic effects of surgical smoke exposure from one operation have been estimated to be equal to the effects of smoking one pack of cigarettes (or six unfiltered cigarettes per gram of tissue ablated)\(^2,4\); and

Whereas, surgical smoke can cause acute effects such as headache, cough, sore throat, eye irritation, nausea, and dizziness\(^5,6\); and

Whereas, surgical smoke is associated with an increased risk of cancer, inflammatory interstitial pneumonia, and emphysema among surgeons compared to the general population\(^7,8,9\); and

Whereas, the harms of surgical smoke cannot be sufficiently prevented by use of surgical masks or by general operating room ventilation\(^5,10\); and

Whereas, the CDC recommends the use of local exhaust ventilation (such as portable smoke evacuators and room suction systems) alongside general ventilation to adequately reduce exposure to harmful particulates, but local exhaust ventilation is often not used\(^11-14\); and

Whereas, NIOSH’s Health and Safety Practices Survey of Healthcare Workers indicates that staff who receive increased training and who work at employers with standard procedures for surgical smoke hazards are more likely to use local exhaust ventilation\(^13\); and

Whereas, the Occupational Safety and Health Association (OSHA) has no standardized protocol for surgical smoke exposure, but the National Fire Protection Association (NFPA) recently included a requirement to capture smoke in their 2024 edition of the Health Care Facilities Code, which is used by the Centers for Medicare and Medicaid Services\(^15-16\); and

Whereas, fifteen states have laws to reduce surgical smoke exposure\(^16\); therefore be it

RESOLVED, that our American Medical Association support efforts to limit surgical smoke exposure in operating rooms. (New HOD Policy)

Fiscal Note: Minimal - less than $1,000

Received: 4/5/2024
REFERENCES

RELEVANT AMA POLICY

H-365.996 Regulation of Occupational Carcinogens
The AMA supports using the best available scientific data, including data derived from animal models, as a basis for regulation of occupational carcinogens.

H-365.980 OSHA Regulations Pertaining to Physicians’ Offices and Hospitals
The AMA continues to review the data and rationale used to substantiate OSHA regulations pertaining to medical practice in physician offices and health care facilities. Where OSHA rules and regulations are found to be unnecessary or inappropriate, the AMA will work for their modification or repeal. [Sub. Res. 218, A-94; Reaffirmed: BOT Rep. 29, A-04; Reaffirmed: BOT Rep. 19, A-14]

H-295.939 Protecting Medical Trainees from Hazardous Exposure
1. Our AMA will encourage all health care-related educational institutions to apply the Occupational Safety and Health Administration (OSHA) Blood Borne Pathogen standard and OSHA hazardous exposure regulations, including communication requirements, equally to employees, students, and residents/fellows.
2. Our AMA recommends: (a) that the Accreditation Council for Graduate Medical Education revise the common program requirements to require education and subsequent demonstration of competence regarding potential exposure to hazardous agents relevant to specific specialties, including but not limited to: appropriate handling of hazardous agents, potential risks of exposure to hazardous agents, situational avoidance of hazardous agents, and appropriate responses when exposure to hazardous material may have occurred in the workplace/training site; (b) (i) that medical school policies on hazardous exposure include options to limit hazardous agent exposure in a manner that does not impact students’ ability to successfully complete their training, and (ii) that medical school policies on continuity of educational requirements toward degree completion address leaves of absence or temporary reassignments when a
pregnant trainee wishes to minimize the risks of hazardous exposures that may affect the trainee’s and/or fetus’ personal health status; (c) that medical schools and health care settings with medical learners be vigilant in updating educational material and protective measures regarding hazardous agent exposure of its learners and make this information readily available to students, faculty, and staff; and (d) medical schools and other sponsors of health professions education programs ensure that their students and trainees meet the same requirements for education regarding hazardous materials and potential exposures as faculty and staff. [Sub. Res. 229, I-92; Reaffirmed: CME Rep. 2, A-03; Reaffirmed: CME Rep. 2, A-13; Modified: CME/CSAPH Joint Rep. 01, A-19]