

## Surgical Smoke Safety Highlighted Literature

See the AORN Guideline for Surgical Smoke Safety and Evidence Table for Complete Information

### Surgical Smoke Hazard Overviews and Perspectives

- Anderson M, Goldman RH. Occupational reproductive hazards for female surgeons in the operating room: a review. *JAMA Surg.* 2020;155(3):243-249.
- Limchantra IV, Fong Y, Melstrom KA. Surgical smoke exposure in operating room personnel: a review. *JAMA Surg.* 2019;154(10):960-967.
- Steege AL, Boiano JM, Sweeney MH. Secondhand smoke in the operating room? Precautionary practices lacking for surgical smoke. *Am J Ind Med.* 2016;59(11):1020-1031.
- Swerdlow BN. Surgical smoke and the anesthesia provider. *J Anesth.* 2020;34(4):575-584.
- Vortman R, McPherson S, Cecilia Wendler M. State of the science: a concept analysis of surgical smoke. *AORN J.* 2021;113(1):41-51.
- Wizner K, Nasarwanji M, Fisher E, Steege AL, Boiano JM. Exploring respiratory protection practices for prominent hazards in healthcare settings. *J Occup Environ Hyg.* 2018;15(8):588-597

### Particle Size Characterizations, Hazards, and Concentrations in Surgical Smoke

- Karjalainen M, Kontunen A, Saari S, et al. The characterization of surgical smoke from various tissues and its implications for occupational safety. *PLoS One.* 2018;13(4):e0195274.
- Ragde SF, Jørgensen RB, Førelund S. Characterisation of exposure to ultrafine particles from surgical smoke by use of a fast mobility particle sizer. *Ann Occup Hyg.* 2016;60(7):860-874.
- Tan W, Zhu H, Zhang N, et al. Characterization of the PM2.5 concentration in surgical smoke in different tissues during hemihepatectomy and protective measures. *Environ Toxicol Pharmacol.* 2019;72:103248.
- Wang HK, Mo F, Ma CG, et al. Evaluation of fine particles in surgical smoke from an urologist's operating room by time and by distance. *Int Urol Nephrol.* 2015;47(10):1671-1678.

### Chemicals and Chemical Hazards Found in Surgical Smoke

- Cheng NY, Chuang HC, Shie RH, Liao WH, Hwang YH. Pilot studies of VOC exposure profiles during surgical operations. *Ann Work Expo Health.* 2019;63(2):173-183.
- Kocher GJ, Sesia SB, Lopez-Hilfiker F, Schmid RA. Surgical smoke: still an underestimated health hazard in the operating theatre. *Eur J Cardiothorac Surg.* 2019;55(4):626-631.
- Markowska M, Krajewski A, Maciejewska D, Jeleń H, Kaczmarek M, Stachowska E. Qualitative analysis of surgical smoke produced during burn operations. *Burns.* 2020;46(6):1356-1364.
- Van Gestel EAF, Linssen ES, Creta M, et al. Assessment of the absorbed dose after exposure to surgical smoke in an operating room. *Toxicol Lett.* 2020;328:45-51.

### Cytotoxic Hazards of Surgical Smoke

- Sisler JD, Shaffer J, Soo JC, et al. In vitro toxicological evaluation of surgical smoke from human tissue. *J Occup Med Toxicol.* 2018;13(1):12.

### HPV Hazards in Surgical Smoke

- Fox-Lewis A, Allum C, Vokes D, Roberts S. Human papillomavirus and surgical smoke: a systematic review. *Occup Environ Med.* 2020;77(12):809-817.
- Neumann K, Cavalari M, Rody A, Friemert L, Beyer DA. Is surgical plume developing during routine LEEP procedures contaminated with high-risk HPV? A pilot series of experiments. *Arch Gynecol Obstet.* 2018;297(2):421424.
- Zhou Q, Hu X, Zhou J, Zhao M, Zhu X, Zhu X. Human papillomavirus DNA in surgical smoke during cervical loop electrosurgical excision procedures and its impact on the surgeon. *Cancer Manage Res.* 2019;11:36433654.