Tobacco in Australia
Facts & Issues

Relevant news and research
3.15 The impact of smoking on treatment of disease

Last updated March 2021

Research: .................................................................................................................. 2
3.15.1 Surgery ............................................................................................................. 6
   3.15.1.1 Anaesthesia ............................................................................................ 27
   3.15.1.2 Postoperative complications .................................................................... 28
   3.15.1.3 Impact of smoking cessation .............................................................. 36
3.15.2 Drug interactions and treatment efficacy .................................................. 36
3.15.3 Cardiovascular disease .............................................................................. 41
3.15.4 Cancer ........................................................................................................ 46
3.15.5 Treatment of infertility including assisted reproduction ....................... 55
3.15.6 Contraception ............................................................................................. 56
3.15.7 Other conditions ......................................................................................... 57
News reports: .......................................................................................................... 59
3.15.1 Surgery ........................................................................................................ 59
   3.15.1.1 Anaesthesia ............................................................................................ 60
   3.15.1.2 Postoperative complications .................................................................. 60
3.15.2 Drug interactions and treatment efficacy .................................................. 60
3.15.3 Cardiovascular disease .............................................................................. 60
Research:


3.15.1 Surgery


Katznelson R and Beattie W. Perioperative smoking risk. Anesthesiology, 2011; [Epub ahead of print]. Available from: http://journals.lww.com/anesthesiology/Citation/publishahead/Perioperative_Smoking_Risk.99257.aspx


3.15.1.1 Anaesthesia


3.15.1.2 Postoperative complications


Shahim, B, Redfors, B, Chen, S, Morice, MC, Gersh, BJ, Puskas, JD et al (2020). Outcomes After Left Main Coronary Artery Revascularization by Percutaneous Coronary Intervention or Coronary Artery


Hamilton WG. No smoking allowed: Is the operating room the next place that smoking patients undergoing total joint arthroplasty will be banned?: Commentary on an article by eric h. Tischler, ba, et al.: “Smoking increases the rate of reoperation for infection within 90 days after primary total joint arthroplasty”. J Bone Joint Surg Am, 2017; 99(4):e17. Available from: http://www.ncbi.nlm.nih.gov/pubmed/28196045


3.15.1.3 Impact of smoking cessation


3.15.2 Drug interactions and treatment efficacy


Gritz ER, Dresler C, and Sarna L. Smoking, the missing drug interaction in clinical trials: Ignoring the obvious. Cancer Epidemiology Biomarkers & Prevention, 2005; 14:2287–93. Available from: http://cebp.aacrjournals.org/content/14/10/2287.full.pdf


3.15.3 Cardiovascular disease


Li, M, Feng, L, Li, X, Gao, R, & Wu, Y. (2020). Influences of Smoking Status on Effectiveness of Cytochrome P450 Enzyme System Metabolized Medications in Reducing In-Hospital Death in 14 658


3.15.4 Cancer


3.15.5 Treatment of infertility including assisted reproduction


3.15.6 Contraception


3.15.7 Other conditions


News reports:

3.15.1 Surgery


3.15.1 Anaesthesia

No authors listed. Smokers and those exposed to passive smoke require more anesthetic and painkiller during operations, in *Science Daily* 2015. Available from: [http://www.sciencedaily.com/releases/2015/05/150529193641.htm](http://www.sciencedaily.com/releases/2015/05/150529193641.htm).

3.15.1.2 Postoperative complications


3.15.2 Drug interactions and treatment efficacy


3.15.3 Cardiovascular disease

