

# Tobacco in Australia

## Facts & Issues

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### Relevant news and research

#### 18B.4 Safety and abuse potential

*Last updated January 2019*

#### Research:

Lippmann, S, Singh, D. Vaping marijuana? J Fam Pract. 2017 Nov;66(11):655. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29099516>

##### *18B.4.1 Safety risks*

###### *18B.4.1.1 Explosions, fires and burns*

Jones, CD, Ho, W, Gunn, E, Widdowson, D, & Bahia, H. E-cigarette burn injuries: Comprehensive review and management guidelines proposal. Burns, 2018. Available from:

[https://www.burnsjournal.com/article/S0305-4179\(18\)30279-1/fulltext](https://www.burnsjournal.com/article/S0305-4179(18)30279-1/fulltext)

Rosshiem, ME, Livingston, MD, Soule, EK, Zeraye, HA, Thombs, DL. Electronic cigarette explosion and burn injuries, US Emergency Departments 2015-2017. [C]. Tob Control, Sept 2018. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/30219795>

Maraqa, T, Mohamed, MAT, Salib, M, Morris, S, Mercer, L, Sachwani-Daswani, GR. Too Hot for Your Pocket! Burns From E-Cigarette Lithium Battery Explosions: A Case Series. J Burn Care Res, June 2017. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29931215>

McCague, Y. Ocular Chemical Burns Secondary to Accidental Administration of e-Cigarette Liquid.

Adv Emerg Nurs J. 2018 Apr/Jun;40(2):104-109. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29715252>

Andresen, NS, Lee, DJ, Kowalski, CE, Bayon, R. Fall With e-Cigarette in Mouth Resulting in Pharyngeal and Esophageal Burns. JAMA Otolaryngol Head Neck Surg, 2018. Mar 1, 2018. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29494719>

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Hickey, S, Goverman, J, Friedstat, J, Sheridan, R, Schulz, J. Thermal injuries from exploding electronic cigarettes. *Burns*. 2018 Mar 1. pii: S0305-4179(18)30081-0. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29503045>

Ackley, E, Williams, JTB, Kunrath, C, Monson, M, Ignatiuk, A, Gaensbauer, J. Too Hot to Handle? When Vaporizers Explode. *J Pediatr*. 2018 Jan 25. pii: S0022-3476(17)31727-4. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29395175>

Foran, I, Oak, NR, Meunier, MJ. High-Pressure Injection Injury Caused by Electronic Cigarette Explosion: A Case Report. *JBJS Case Connect*. 2017 Apr-Jun;7(2):e36. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29244675>

Satteson, ES, Walker, NJ, Tuohy, CJ, Molnar, JA. Extensive Hand Thermal and Blast Injury From Electronic Cigarette Explosion: A Case Report. *Hand (N Y)*. 2017 Nov 1:1558944717744333. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29192506>

### *18B.4.1.2 Nicotine toxicity and accidental poisoning*

Weiss, D, Tomasallo, CD, Meiman, JG, Creswell, PD, Melstrom, PC, Gummin, DD, Patel, DJ, Michaud, NT, Sebero, H A, Anderson, HA. Electronic Cigarette Exposure: Calls to Wisconsin Poison Control Centers, 2010-2015. *WMJ*. 2016 Dec;115(6):306-10. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29094867>

Hughes, A, & Hendrickson, RG. An epidemiologic and clinical description of e-cigarette toxicity. *Clin Toxicol (Phila)*, 2018. 1-7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30306801>

Wang, B, & Rostron, B. Tobacco-related Poison Events Involving Young Children in the US, 2001-2016. *Tob Regul Sci*, 2017. 3(4), 525-535. Available from:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6190721/pdf/nihms-990910.pdf>

Lee, J, You, Y, Park, JS, Min, JH, Yoo, I, Jeong, W, Cho, Y, Ryu, S, Kim, S, Cho, SU, Oh, SK, Lee, J, Ahn, HJ, Jung, SM. Liver Donation After Brain Death Following Intentional Ingestion of 99% E-Cigarette Liquid Nicotine 10 mL. *Exp Clin Transplant*, 2018. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29911961>

Govindarajan, Preethi, Spiller, Henry A., Casavant, Marcel J., Chounthirath, Thitphalak, Smith, Gary A. E-Cigarette and Liquid Nicotine Exposures Among Young Children. *Pediatrics*, Apr 2018. Available

tobaccoinaustralia.org.au

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from: <http://pediatrics.aappublications.org/content/pediatrics/early/2018/04/19/peds.2017-3361.full.pdf>

Park, Eun Jung, Min, Young-Gi. The Emerging Method of Suicide by Electronic Cigarette Liquid: a Case Report. J Korean Med Sci, Mar 2018. Available from:

<http://synapse.koreamed.org/DOIx.php?id=10.3346%2Fjkms.2018.33.e52>

Weiss, D, Tomasallo, CD, Meiman, JG, Creswell, PD, Melstrom, PC, Gummin, DD, Patel, DJ, Michaud, NT, Sebero, H A, Anderson, HA. Electronic Cigarette Exposure: Calls to Wisconsin Poison Control Centers, 2010-2015. WMJ. 2016 Dec;115(6):306-10. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/29094867>

Noble, MJ, Longstreet, B, Hendrickson, RG, Gerona, R. Unintentional pediatric ingestion of electronic cigarette nicotine refill liquid necessitating intubation. Ann Emerg Med. 2017 Jan;69(1):94-97.

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27988056>

Frasch, HF, Barbero, AM. In vitro human epidermal permeation of nicotine from electronic cigarette refill liquids and implications for dermal exposure assessment. J Expo Sci Environ Epidemiol, Dec 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27924817>

Eggleston, W, Nacca, N, Stork, CM, Marraffa, JM. Pediatric death after unintentional exposure to liquid nicotine for an electronic cigarette. Clin Toxicol (Phila). 2016 Jul 7:1-2. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27383772>

Zolot, J. Toxic exposures of young children to E-cigarettes are on the rise. Am J Nurs. 2016 Aug;116(8):15. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27466908>

### *18B.4.2 Abuse potential*

El-Hage, R, El-Hellani, A, Salman, R, Talih, S, Shihadeh, A, Saliba, NA. Fate of pyrazines in the flavored liquids of e-cigarettes. Aerosol Sci Technol, 2018. 52(4), 377-384. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/30233107>

Stiles, MF, Campbell, LR, Jin, T, Graff, DW, Fant, RV, Henningfield, JE. Assessment of the abuse liability of three menthol Vuse Solo electronic cigarettes relative to combustible cigarettes and nicotine gum. Psychopharmacology (Berl). 2018 May 3. pii: 10.1007/s00213-018-4904-x. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29725702>

tobaccoinaustralia.org.au

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---

Smethells, JR, Harris, AC, Burroughs, D, Hursh, SR, LeSage, MG. Substitutability of nicotine alone and an electronic cigarette liquid using a concurrent choice assay in rats: A behavioral economic analysis. *Drug Alcohol Depend.* 2018 Feb 5;185:58-66. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29427916>

Barnes, AJ, Bono, RS, Lester, RC, Eissenberg, TE, Cobb, CO. Effect of Flavors and Modified Risk Messages on E-cigarette Abuse Liability. *Tob Regul Sci.* 2017 Oct;3(4):374-387. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29204463>

### *18B4.2.1 Nicotine addiction*

Karam-Hage, M. (2018). E-cigarettes and the Nicotine Epidemic. *Am J Addict*, 27(8), 650-651. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30516335>

Harvanko, A, Kryscio, R, Martin, C, & Kelly, T. Stimulus effects of propylene glycol and vegetable glycerin in electronic cigarette liquids. *Drug Alcohol Depend*, 194, 326-329. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30471584>

Koval, R, Willett, J, & Briggs, J. Potential Benefits and Risks of High-Nicotine e-Cigarettes. *JAMA*, 2018. 320(14), 1429-1430. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30326513>

Reilly, SM, Bitzer, ZT, Goel, R, Trushin, N, & Richie, JP et al. Free Radical, Carbonyl, and Nicotine Levels Produced by Juul Electronic Cigarettes. *Nicotine Tob Res*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30346584>

Fearon, IM, Eldridge, AC, Gale, N, McEwan, M, Stiles, MF, Round, EK. Nicotine pharmacokinetics of electronic cigarettes: A review of the literature. *Regul Toxicol Pharmacol*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30201538>

Son, Y, Wackowski, O, Weisel, C, Schwander, S, Mainelis, G, Delnevo, C, Meng, Q. Evaluation of E-Vapor Nicotine and Nicotyrine Concentrations under Various E-Liquid Compositions, Device Settings, and Vaping Topographies. *Chem Res Toxicol*, Aug 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30080399>

Hughes, JR, Callas, PW. Prevalence of withdrawal symptoms from electronic cigarette cessation: A cross-sectional analysis of the US Population Assessment of Tobacco and Health. *Addict Behav.* 2018 Jul 5. pii: S0306-4603(18)30736-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30033197>

# Tobacco in Australia

## Facts & Issues

---

Soar, K, Kimber, C, McRobbie, H, Dawkins, LE. Nicotine absorption from e-cigarettes over 12 months. *Addict Behav*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30054021>

Vansickel, AR, Edmiston, JS, Liang, Q, Duhon, C, Connell, C, Bennett, D, Sarkar, M. Characterization of puff topography of a prototype electronic cigarette in adult exclusive cigarette smokers and adult exclusive electronic cigarette users. *Regul Toxicol Pharmacol*. 2018 Jul 24. pii: S0273-2300(18)30203-4. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30053435>

Perkins, KA, Herb, T, Karelitz, JL. Discrimination of nicotine content in electronic cigarettes. *Addict Behav*. 2018 May 29. pii: S0306-4603(18)30570-7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29871789>

Dowd, AN, Motschman, CA, Tiffany, ST. Development and Validation of the Questionnaire of Vaping Craving. *Nicotine Tob Res*. 2018 Mar 12. pii: 4930918. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29546379>

No authors listed. Nicotine Addiction and E-cigarettes. *J Addict Nurs*. 2017 Oct/Dec;28(4):229-230. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29200053>

Raymond, B H, Collette-Merrill, K, Harrison, RG, Jarvis, S, Rasmussen, RJ. The Nicotine Content of a Sample of E-cigarette Liquid Manufactured in the United States. *J Addict Med*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29280749>

Bold, KW, Sussman, S, O'Malley, SS, Grana, R, Foulds, J, Fishbein, H, Krishnan-Sarin, S. Measuring E-cigarette dependence: Initial guidance. *Addict Behav*. 2017 Nov 22. pii: S0306-4603(17)30425-2. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29174664>

Kennedy, AE, Kandalam, S, Olivares-Navarrete, R, Dickinson, AJG. E-cigarette aerosol exposure can cause craniofacial defects in *Xenopus laevis* embryos and mammalian neural crest cells. *PLoS One*. 2017 Sep 28;12(9):e0185729. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28957438>

Van Der Eijk, Y, Petersen, AB, Bialous, SA. E-cigarette use in pregnancy: a human rights-based approach to policy and practice. *Acta Obstet Gynecol Scand*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28787767>

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## Facts & Issues

---

Gonzalez Roz, A, Secades Villa, R, Weidberg, S. Evaluating nicotine dependence levels in e-cigarette users. *Adicciones*. 2017 Jan 11;0(0):905. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/28170058>

Cox, S, Kosmider, L, McRobbie, H, Goniewicz, M, Kimber, C, Doig, M, Dawkins, L. E-cigarette puffing patterns associated with high and low nicotine e-liquid strength: effects on toxicant and carcinogen exposure. *BMC Public Health*. 2016 Sep 20;16:999. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27650300>

Spindle, TR, Hiler, MM, Breland, AB, Karaoghlanian, NV, Shihadeh, AL, Eissenberg, T. The influence of a mouthpiece-based topography measurement device on electronic cigarette user's plasma nicotine concentration, heart rate, and subjective effects under directed and ad libitum use conditions. *Nicotine Tob Res*, 2016. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/27613914>

Papaseit, E, Farre, M, Graziano, S, Pacifici, R, Perez-Mana, C, Garcia-Algar, O, Pichini, S. Monitoring nicotine intake from e-cigarettes: measurement of parent drug and metabolites in oral fluid and plasma. *Clin Chem Lab Med*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27559692>

### *18B4.2.2 Vaping of other drugs*

Jones, CB, Meier, MH, & Pardini, DA. Comparison of the locations where young adults smoke, vape, and eat/drink cannabis: Implications for harm reduction. *Addict Behav Rep*, 2018. 8, 140-146.

Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6174524/pdf/main.pdf>

Tashkin, D. P. (2018). Vaping Cannabis and Chronic Obstructive Pulmonary Disease. *Ann Am Thorac Soc*, 2018. 15(10), 1137-1138. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30272498>

Breitbarth, AK, Morgan, J, Jones, AL. E-cigarettes-An unintended illicit drug delivery system. [C]. *Drug Alcohol Depend*, 2018. 192, 98-111. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/30245461>

Steigerwald, S, Wong, PO, Cohen, BE, Ishida, JH, Vali, M, Madden, E, Keyhani, S. Smoking, Vaping, and Use of Edibles and Other Forms of Marijuana Among U.S. Adults. *Ann Intern Med*, 2018. .

Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30167665>

Trivers, KF, Phillips, E, Gentzke, AS, Tynan, MA, & Neff, L J. Prevalence of Cannabis Use in Electronic Cigarettes Among US Youth. *JAMA Pediatr*, Sept 2018. Available from:

<https://www.ncbi.nlm.nih.gov/pubmed/30242366>

tobaccoinaustralia.org.au

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## Facts & Issues

Guy, MC, Helt, J, Palafox, S, Green, K, Soule, EK, Maloney, SF, Eissenberg, T, Fagan, P. Orthodox and Unorthodox Uses of Electronic Cigarettes: A Surveillance of YouTube Video Content. *Nicotine Tob Res*, Jul 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29961828>

Cassidy, RN, Meisel, MK, DiGuiseppi, G, Balestrieri, S, Barnett, NP. Initiation of vaporizing cannabis: Individual and social network predictors in a longitudinal study of young adults. *Drug Alcohol Depend*. 2018 Jul 1;188:334-340. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29857317>

Frohe, T, Leeman, RF, Patock-Peckham, J, Ecker, A, Kraus, S, Foster, DW. Correlates of cannabis vape-pen use and knowledge among U.S. college students. *Addict Behav Rep*. 2017 Nov 21;7:32-39. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29450254>

### *18B.4.2.3 "Dripping"*

#### News reports:

Andreatta, David. Webster vape shop sued over exploding e-cig battery. *Democrat & Chronicle*, 2018. Jan 16, 2018. Available from: <https://www.democratandchronicle.com/story/news/2018/01/16/webster-vape-shop-sued-over-exploding-e-cig-battery/1037276001/>

Pepper, Jessica K, Cress, Margaret JM, Gammon, Doris G, Razi, Sima, Rupert, Douglas J, Lee, Youn O. Battery Safety Information and Warnings on E-cigarette Packages and Online. *Tobacco Regulatory Science*, Jan 2018. Available from: <http://www.ingentaconnect.com/content/trsg/trs/2018/00000004/00000001/art00007>  
<https://doi.org/10.18001/TRS.4.1.7>

### *18B4.1 Safety risks*

Goh, Brenda. Air China flight's sudden descent linked to co-pilot smoking - state media. *Reuters*, 2018. July 13, 2018. Available from: <https://uk.reuters.com/article/uk-air-china-investigation/air-china-flights-sudden-descent-linked-to-co-pilot-smoking-state-media-idUKKBN1K30FU?il=0>

No authors listed. Urgent: Voluntary Product Recall of Vuse Vibe Power Units. *RJ Reynolds Vapor*, 2018. Apr 16, 2018. Available from: <http://www.reynoldsamerican.com/about-us/press-releases/Press-Release-Details-/2018/Urgent-Voluntary-Product-Recall-of-Vuse-Vibe-Power-Units/default.aspx>

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### *18B.4.1.1 Explosions, fires and burns*

No authors listed. UL Certifies First Electronic Cigarette to UL 8139 Standard. Cision, 2018. Oct 15, 2018. Available from <https://www.prnewswire.com/news-releases/ul-certifies-first-electronic-cigarette-to-ul-8139-standard-300731087.html>

Rodionova, Zlata. URGENT RECALL Vype e-cigarettes sold at Argos and Sainsbury's recalled over fears they could catch fire. The Sun 2018. Aug 6, 2018. Available from: <https://www.thesun.co.uk/money/6912901/vype-ecigarettes-sainsburys-product-recall-fire/>

Antinori, Shannon. Exploding E-Cigarette Causes 'Significant Injury' To Woman's Face. Rockford Patch, 2018. June 6, 2018. Available from: <https://patch.com/illinois/rockford/exploding-e-cigarette-causes-significant-injury-womans-face>

Carreras-Torres, Robert, Johansson, Mattias, Haycock, Philip C, Relton, Caroline L, Davey Smith, George, Brennan, Paul, Martin, Richard M. Role of obesity in smoking behaviour: Mendelian randomisation study in UK Biobank. BMJ, May 2018. Available from: <https://www.bmj.com/content/bmj/361/bmj.k1767.full.pdf>

Ives, Laurel. How likely is your e-cigarette to explode?BBC, 2018. May 24, 2018. Available from: <http://www.bbc.com/news/health-44161348>

No authors listed. Florida man dies after e-cigarette explodes. Nine News, 2018. May 17, 2018. Available from: <https://www.9news.com.au/national/2018/05/16/16/12/vaping-pen-death-florida?app=applenews>

Corey, Catherine G, Chang, Joanne T, Rostron, Brian L. Electronic nicotine delivery system (ENDS) battery-related burns presenting to US emergency departments, 2016. Injury Epidemiology, Mar 2018. Available from: <https://doi.org/10.1186/s40621-018-0135-1>

Leiker, Amy Renee. E-cigarette battery explodes in Derby man's pants. 'It ignites like a bomb,' lawyer says. The Wichita Eagle, 2018. Mar 5, 2018. Available from: <http://www.kansas.com/news/local/crime/article202246854.html>

Sanginiti, Domenic. The Link Between E-Cigarette Design And Explosions. Law 360, Jan 2018. Available from: <https://www.law360.com/articles/997632/the-link-between-e-cigarette-design-and-explosions>

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U.S. Fire Administration. Electronic Cigarette Fires and Explosions in the United States 2009 – 2016. Federal Emergency Management Agency, Jan 2018. Available from:  
[https://www.usfa.fema.gov/downloads/pdf/publications/electronic\\_cigarettes.pdf](https://www.usfa.fema.gov/downloads/pdf/publications/electronic_cigarettes.pdf)

### *18 B 4.1.2 Nicotine toxicity and accidental poisoning*

U.S. Food and Drug Administration. FDA warns company for selling e-liquids that resemble kid-friendly foods as part of the agency's ongoing Youth Tobacco Prevention Plan. *FDA*, 2018. Nov 29, 2018. Available from:  
[https://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm627123.htm?utm\\_source=Eloqua&utm\\_medium=email&utm\\_term=stratcomms&utm\\_content=pressrelease&utm\\_campaign=CTP%20News%3A%20Electric%20Lotus%20WL%20-%2020181128](https://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm627123.htm?utm_source=Eloqua&utm_medium=email&utm_term=stratcomms&utm_content=pressrelease&utm_campaign=CTP%20News%3A%20Electric%20Lotus%20WL%20-%2020181128)

Maddipatla, M. FDA warns e-cigarette liquid maker against products resembling food for kids. *Reuters*, 2018. Nov 30, 2018. Available from: <https://uk.reuters.com/article/us-fda-tobacco/fda-warns-e-cigarette-liquid-maker-against-products-resembling-food-for-kids-idUKKCN1NY205>

First, Lewis. E-Cigarettes and Young Children: The Dangers of Liquid Nicotine Exposure. *AAP News & Journals*, 2018. Apr 30, 2018. Available from: <http://www.aappublications.org/news/2018/04/25/e-cigarettes-and-young-children-the-dangers-of-liquid-nicotine-exposure-pediatrics-4-25-18>

Govindarajan, Preethi, Spiller, Henry A., Casavant, Marcel J., Chounthirath, Thitphalak, Smith, Gary A. E-Cigarette and Liquid Nicotine Exposures Among Young Children. *Pediatrics*, Apr 2018. Available from: <http://pediatrics.aappublications.org/content/pediatrics/early/2018/04/19/peds.2017-3361.full.pdf>

No authors listed. Liquid nicotine used in e-cigarettes still a danger to children despite recent decline in exposures. *EurekaAlert!*, 2018. Apr 24, 2018. Available from:  
[https://eurekaalert.org/pub\\_releases/2018-04/nch-lnu041618.php](https://eurekaalert.org/pub_releases/2018-04/nch-lnu041618.php)

Park, Eun Jung, Min, Young-Gi. The Emerging Method of Suicide by Electronic Cigarette Liquid: a Case Report. *J Korean Med Sci*, Mar 2018. Available from:  
<http://synapse.koreamed.org/DOIx.php?id=10.3346%2Fjkms.2018.33.e52>

Ip, Stephanie and Gindlay, Lora. 14-year-old Delta baseball player dies after falling while vaping nicotine. *Vancouver Sun*, 2018. Jan 25, 2018. Available from: <http://vancouver.sun.com/news/local-news/teen-baseball-player-14-in-delta-dies-of-serious-injuries>

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### *18B.4.2 Abuse potential*

Small, Leah. Vaping while pregnant could cause craniofacial birth defects, study shows. Medical Xpress, 2017. Nov 17, 2017. Available from: <https://medicalxpress.com/news/2017-11-vaping-pregnant-craniofacial-birth-defects.html>

Newman, Tim. E-cigarette aerosols caused embryo defects in the laboratory. Medical News Today, 2017. Oct 27, 2017. Available from: <https://www.medicalnewstoday.com/articles/319854.php>

#### *18B.4.2.1 Nicotine addiction*

Hoffman, J. The Price of Cool: A Teenager, a Juul and Nicotine Addiction. *New York Times*, 2018. Nov 16, 2018. Available from: <https://www.nytimes.com/2018/11/16/health/vaping-juul-teens-addiction-nicotine.html>

Becker, Rachel. Juul plans to release lower-nicotine vape juice starting in August. The Verge, 2018. July 12, 2018. Available from: <https://www.theverge.com/2018/7/12/17565066/juul-labs-reduces-nicotine-dose-virginia-tobacco-mint-flavors>

Tiku, Nitasha. Users Sue Juul for Addicting Them to Nicotine. Wired, 2018. July 23, 2018. Available from: <https://www.wired.com/story/users-sue-juul-for-addicting-them-to-nicotine/>

No authors listed. E-cigarette maker Juul targeted teens with false claims of safety, lawsuit says. The Washington Post, 2018. July 30, 2018. Available from: <https://www.washingtonpost.com/news/to-your-health/wp/2018/07/30/e-cigarette-maker-juul-targeted-teens-with-false-claims-of-safety-lawsuit-claims/?noredirect=on>

Daley, John. He started vaping as a teen and now says habit is “impossible to let go”. Salon, 2018. June 12, 2018. Available from: [https://www.salon.com/2018/06/09/he-started-vaping-as-a-teen-and-now-says-habit-is-impossible-to-let-go\\_partner/](https://www.salon.com/2018/06/09/he-started-vaping-as-a-teen-and-now-says-habit-is-impossible-to-let-go_partner/)

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### *18B4.2.2 Vaping of other drugs*

LaMotte, S. FDA warns consumers about e-cigarette liquids with erectile dysfunction drugs. *CNN*, 2018. Dec 11, 2018. Available from: <https://edition.cnn.com/2018/12/11/health/fda-warning-e-cig-liquid-erectile-dysfunction/index.html>

Ng, J. FDA: Don't vape prescription erectile dysfunction drugs. *Boston Herald*, 2018. Dec 12, 2018. Available from: <https://www.bostonherald.com/2018/12/12/fda-dont-vape-prescription-erectile-dysfunction-drugs/>

Spindle, TR, Cone, EJ, Schlienz, NJ, & et al. Acute effects of smoked and vaporized cannabis in healthy adults who infrequently use cannabis: A crossover trial. *JAMA Network Open*, 2018. 1(7), e184841. Available from: <http://dx.doi.org/10.1001/jamanetworkopen.2018.4841>

Taney, P. Good Question: Is that weed in that e-cigarette? . *WHEC*, 2018. Nov 12, 2018. Available from: <https://www.whec.com/news/good-question-is-that-weed-in-that-e-cigarette/5141515/>

Felberbaum, M. FDA In Brief: FDA warns company illegally selling e-liquid products intended for vaping that contain unapproved drugs for erectile dysfunction, weight loss and falsely claim to be FDA-approved. FDA U.S. Food & Drug Administration, 2018. Oct 17, 2018. Available from: [https://www.fda.gov/NewsEvents/Newsroom/FDAInBrief/ucm623078.htm?utm\\_source=Eloqua&utm\\_medium=email&utm\\_term=stratcomms&utm\\_content=inbrief&utm\\_campaign=CTP%20News%3A%20HelloCig%20Warning%20Letter%20-%20101118](https://www.fda.gov/NewsEvents/Newsroom/FDAInBrief/ucm623078.htm?utm_source=Eloqua&utm_medium=email&utm_term=stratcomms&utm_content=inbrief&utm_campaign=CTP%20News%3A%20HelloCig%20Warning%20Letter%20-%20101118)

Johnson, CK. 2 million US teens are vaping marijuana. *CNBC*, 2018. Sept 17, 2018. Available from: <https://www.cnn.com/2018/09/17/the-associated-press-2-million-us-teens-are-vaping-marijuana.html>

Kaskey, J. Modern Take on Hashish Is Becoming the Most Popular Way to Consume Legal Cannabis. *Bloomberg*, 2018. Sept 18, 2018. Available from: <https://www.bloomberg.com/news/articles/2018-09-18/ancient-hashish-gets-vape-makeover-to-lead-legal-cannabis-gains>

Wood, DR. Dr. Wood: Nicotine isn't the only vaping ingredient you need to worry about. *The Olympian*, 2018. Sept 14, 2018. Available from <https://www.theolympian.com/latest-news/article218441215.html>

Agarlb, Amira. Beware, e-cigarettes are being used to smoke drugs in UAE. *Khaleej Times*, 2018. Apr 18, 2018. Available from: <https://www.khaleejtimes.com/news/general//beware-e-cigarettes-are-being-used-to-smoke-drugs-in-uae>

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Pourchez, Jérémie, Forest, Valérie. E-cigarettes: from nicotine to cannabinoids, the French situation. The Lancet Respiratory Medicine, Apr 2018. Available from: [http://dx.doi.org/10.1016/S2213-2600\(18\)30069-9](http://dx.doi.org/10.1016/S2213-2600(18)30069-9)

Leoni, Victoria. Army releases warning on dangers of 'CBD' vape oils. Navy Times, 2018. Jan 30, 2018. Available from: <https://www.navytimes.com/news/your-military/2018/01/30/army-releases-warning-on-dangers-of-cbd-vape-oils/>

*18B.4.2.3 "Dripping"*