

Tobacco in Australia

Facts & Issues

Relevant news and research

4.4 Measuring exposure to secondhand smoke

Last updated September 2019

Research:

Klein, JD, Chamberlin, ME, Kress, EA, Geraci, MW, Rosenblatt, S, Boykan, R et al. (2019). Asking the right questions about secondhand smoke. *Nicotine Tob Res*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31407779>

Mahabee-Gittens, EM, Merianos, AL, Gordon, JS, Stone, L, Semenova, O, & Matt, GE. (2019). Electronic Health Record Classification of Tobacco Smoke Exposure and Cotinine Levels in Hospitalized Pediatric Patients. *Hosp Pediatr*. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31451583>

Cheng, CY, Huang, SS, Yang, CM, Tang, KT, & Yao, DJ. (2019). Detection of Cigarette Smoke Using a Surface-Acoustic-Wave Gas Sensor with Non-Polymer-Based Oxidized Hollow Mesoporous Carbon Nanospheres. *Micromachines (Basel)*, 10(4). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31022928>

Quintana, PJE, Hoh, E, Dodder, NG, Matt, GE, Zakarian, JM, Anderson, KA et al. Nicotine levels in silicone wristband samplers worn by children exposed to secondhand smoke and electronic cigarette vapor are highly correlated with child's urinary cotinine. *J Expo Sci Environ Epidemiol*, 2019. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30728487>

Toledo, J, Ruiz-Diez, V, Bertke, M, Suryo Wasisto, H, Peiner, E, & Sanchez-Rojas, JL. Piezoelectric MEMS Resonators for Cigarette Particle Detection. *Micromachines (Basel)*, 2019.10(2). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30795635>

Gurtner, M, Gage, R, Thomson, G, Jaine, R, Stanley, J, Smith, M et al. Are children smoke-free at home? Using wearable cameras to study children's exposure to smoking and smoking paraphernalia in private spaces. *Child Care Health Dev*, Nov 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30548456>

tobaccoinaustralia.org.au

Tobacco in Australia

Facts & Issues

Gomez Lueso, M, Mitova, MI, Mottier, N, Schaller, M, Rotach, M, & Goujon-Ginglinger, C G. Development and validation of a method for quantification of two tobacco-specific nitrosamines in indoor air. *J Chromatogr A*, 2018. 1580, 90-99. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30391037>

Myers, V, Shiloh, S, Rosen, L. Parental perceptions of children's exposure to tobacco smoke: development and validation of a new measure. *BMC Public Health*. 2018 Aug 20;18(1):1031. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30126404>

Groner, JA, Rule, AM, McGrath-Morrow, SA, Collaco, JM, Moss, A, Tanski, SE, McMillen, R, Whitmore, RM, Klein, J D, Winickoff, JP, Wilson, K. Assessing pediatric tobacco exposure using parent report: comparison with hair nicotine. *J Expo Sci Environ Epidemiol*, Jul 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30013229>

Dobson, R, Semple, S. "How do you know those particles are from cigarettes?": An algorithm to help differentiate second-hand tobacco smoke from background sources of household fine particulate matter. *Environ Res*. 2018 Jun 18;166:344-347. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29929126>

Drago, G, Perrino, C, Canepari, S, Ruggieri, S, L'Abbate, L, Longo, V, Colombo, P, Frasca, D, Balzan, M, Cuttitta, G, Scaccianoce, G, Piva, G et al. Relationship between domestic smoking and metals and rare earth elements concentration in indoor PM2.5. *Environ Res*. 2018 Apr 16;165:71-80. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29674239>

Gavarkovs, AG, Risica, PM, Parker, DR, Jennings, E, Mello, J, Phipps, M. Self-Reported Environmental Tobacco Smoke Exposure and Avoidance Compared with Cotinine Confirmed Tobacco Smoke Exposure among Pregnant Women and Their Infants. *Int J Environ Res Public Health*. 2018 Apr 27;15(5). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29702552>

Arechavala, T, Continente, X, Perez-Rios, M, Fernandez, E, Cortes-Francisco, N, Schiaffino, A, Centrich, F, Munoz, G, Lopez, MJ. Validity of self-reported indicators to assess secondhand smoke exposure in the home. *Environ Res*. 2018 Mar 19;164:340-345. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29567419>

Wang, C, Collins, DB, Hems, RF, Borduas-Dedekind, N, Antinolo, M, Abbatt, JPD. Exploring Conditions for Ultrafine Particle Formation from Oxidation of Cigarette Smoke in Indoor Environments. *Environ Sci Technol*. 2018. Mar 30, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29601184>

tobaccoinaustralia.org.au

Tobacco in Australia

Facts & Issues

Susanto, AD, Putri, PD, Hudoyo, A, Taufik, FF, Nurwidya, F, Andarini, S. Urinary Cotinine Level in Indonesian Children Exposed to Domestic Cigarette Smoke. *J Nat Sci Biol Med*. 2018 Jan-Jun;9(1):77-81. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29456398>

Skinner, AL, Stone, CJ, Doughty, H, Munafo, MR. StopWatch: The preliminary evaluation of a smartwatch-based system for passive detection of cigarette smoking. *Nicotine Tob Res*, 2018. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29373720>

Martinez-Sanchez, JM, Gonzalez-Marron, A, Martin-Sanchez, JC, Sureda, X, Fu, M, Perez-Ortuno, R, Lidon-Moyano, C, Galan, I, Pascual, JA, Fernandez, E. Validity of self-reported intensity of exposure to second-hand smoke at home against environmental and personal markers. *Gac Sanit*. 2017 Nov 2. pii: S0213-9111(17)30215-7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29102505>

Beal, SJ, Dorn, LD, Berga, SL. Examining the Validity of Self-reported Primary and Secondary Exposure to Cigarette Smoke in Adolescent Girls: The Utility of Salivary Cotinine as a Biomarker. *Subst Use Misuse*. 2017 Oct 23:1-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29058521>

Kungskulniti, N, Charoenca, N, Mock, J, Hamann, SL. Secondhand smoke point-source exposures assessed by particulate matter at two popular public beaches in Thailand. *J Public Health (Oxf)*. 2017 Sep 11:1-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28977624>

Arechavala, T, Continente, X, Perez-Rios, M, Schiaffino, A, Fernandez, E, Cortes-Francisco, N, Centrich, F, Munoz, G, Lopez, MJ. Second-hand smoke exposure in homes with children: assessment of airborne nicotine in the living room and children's bedroom. *Tob Control*, 2017. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28822971>

Li, L, Ho, SSH, Chow, JC, Watson, JG, Lee, FSC, Cui, L, Gao, Y, Dai, W, Ho, KF, Huang, Y, Cao, J. Characterization and health risk assessment of PM2.5-bound organics inside and outside of Chinese smoking lounges. *Chemosphere*. 2017 Aug 4;186:438-445. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28806671>

Tsuji, M, Kanda, H, Hayakawa, T, Mori, Y, Ito, T, Hidaka, T, Kakamu, T, Kumagai, T, Osaki, Y, Kawazoe, M, Sato, S, Fukushima, T. Nicotine cut-off value in human hair as a tool to distinguish active from passive smokers: A cross-sectional study in Japanese men. *Cancer Biomark*. 2017 Jul 19;20(1):41-48. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28759953>

Bronstein, A. B., Gascon, J. L., Eugenio Gonzalez, C. I. and Barrientos-Gutierrez, T. Environmental Tobacco Exposure and Urinary Cotinine Levels in Smoking and Non-smoking Adolescents. *Nicotine Tob Res*, 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28582526>

tobaccoinaustralia.org.au

Tobacco in Australia

Facts & Issues

Klepeis, NE, Bellettiere, J, Hughes, SC, Nguyen, B, Berardi, V, Liles, S, Obayashi, S, Hofstetter, CR, Blumberg, E, Hovell, MF. Fine particles in homes of predominantly low-income families with children and smokers: Key physical and behavioral determinants to inform indoor-air-quality interventions. PLoS One. 2017 May 17;12(5):e0177718. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28545099>

Kim, H, Lee, K, An, J, Won, S. Determination of Secondhand Smoke Leakage from the Smoking Room of an Internet Café. J Air Waste Manag Assoc, Jun 2017. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28609195>

Lewis, JB, Hirschi, KM, Arroyo, JA, Bikman, BT, Kooyman, DL, Reynolds, PR. Plausible Roles for RAGE in Conditions Exacerbated by Direct and Indirect (Secondhand) Smoke Exposure. Int J Mol Sci. 2017 Mar 17;18(3). Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28304347>

Benowitz, NL, Jain, S, Dempsey, DA, Nardone, N, St Helen, G, Jacob, P, 3rd. Urine Cotinine Screening Detect Nearly Ubiquitous Tobacco Smoke Exposure in Urban Adolescents. Nicotine Tob Res, Dec 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28031377>

Fischer, F, Kraemer, A. Secondhand smoke exposure at home among middle and high school students in the United States - does the type of tobacco product matter? BMC Public Health. 2017 Jan 19;17(1):98. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28103827>

Li, Z, Zhang, J, Huo, W, Zhu, Y, Xie, J, Lu, Q, Wang, B. Using nicotine in scalp hair to assess maternal passive exposure to tobacco smoke. Environ Pollut. 2017 Mar;222:276-282. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/28040338>

Wang, Y, Yang, M, Huang, Z, Tian, L, Niu, L, Xiao, S. Urinary cotinine concentrations in preschool children showed positive associations with smoking fathers. Acta Paediatr, Oct 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27748973>

Ruprecht, AA, De Marco, C, Pozzi, P, Mazza, R, Munarini, E, Di Paco, A, Paredi, P, Invernizzi, G, Boffi, R. Outdoor second-hand cigarette smoke significantly affects air quality. Eur Respir J. 2016 May 26. pii: ERJ-00064-2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27230450>

Campo, L, Polledri, E, Bechtold, P, Gatti, G, Ranzi, A, Lauriola, P, Goldoni, CA, Bertazzi, PA, Fustinoni, S. Environ Res. 2016 Apr 6;148:154-163. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27060750>

tobaccoinaustralia.org.au

Tobacco in Australia

Facts & Issues

Huntington-Moskos, L et al. The peer and family smoking index: a valid measure of secondhand smoke exposure in adolescents. *J Adolesc Health*, 2016. Feb 5, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26856961>

Lustre, BL et al. Assessment of tobacco smoke exposure in the pediatric emergency department. *Prev Med*, 2016. Jan 12, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26794047>

Perez-Ortuno, R, Martinez-Sanchez, JM, Fu, M, Fernandez, E, Pascual, JA. *Sci Rep*. 2016 Apr 26;6:25043. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/27112239>

Huntington-Moskos, L et al. The peer and family smoking index: a valid measure of secondhand smoke exposure in adolescents. *J Adolesc Health*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26856961>

Lustre, BL et al. Assessment of tobacco smoke exposure in the pediatric emergency department. *Prev Med*, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26794047>

da Silveira Fleck, A. Monitoring an outdoor smoking area by means of PM measurement and vegetal biomonitoring. *Environ Sci Pollut Res Int*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26662301>

Rosen, L et al. Feasibility of measuring tobacco smoke air pollution in homes: report from a pilot study. *Int J Environ Res Public Health*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26633440>

Kaletka, D et al. Residential exposure to environmental tobacco smoke, and its associates: Findings from the Global Adult Tobacco Survey in Poland. *International Journal of Occupational Medicine and Environmental Health*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26190731>

Rosen, LJ et al. Parental receptivity to child biomarker testing for tobacco smoke exposure: A qualitative study. *Patient Education and Counselling*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26160037>

Burke, RC et al. Utilizing geographic information systems and spatial video to analyze patterns of secondhand smoke exposure on college campuses. *Journal of American College Health*. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25832564>

Lee, J et al. Influence of maternal environmental tobacco smoke exposure assessed by hair nicotine levels on birth weight. *Asian Pacific Journal of Cancer Prevention*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25854401>

tobaccoinaustralia.org.au

Tobacco in Australia

Facts & Issues

Cunningham, A et al. A longitudinal study of smokers' exposure to cigarette smoke and the effects of spontaneous product switching. *Regulatory Toxicology and Pharmacology*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25777840>

Ino, T, Kurosawa, K. Secondhand smoke screening for schoolchildren in Japan. *Pediatrics international*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25808130>

Raouf, SA et al. A systematic review of secondhand smoke exposure in a car: Attributable changes in atmospheric and biological markers. *Chronic Respiratory Disease*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25758677>

Homa, DM et al. Vital signs: disparities in nonsmokers' exposure to secondhand smoke - United States, 1999-2012. *MMWR. Morbidity and Mortality Weekly Report*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25654612>

Wei B, Blount BC, Xia B, and Wang L. Assessing exposure to tobacco-specific carcinogen NNK using its urinary metabolite NNAL measured in US population: 2011-2012. *J Expo Sci Environ Epidemiol*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25564369>

Liu R, Dix-Cooper L, and Hammond SK. Modeling flight attendants' exposure to secondhand smoke in commercial aircraft: historical trends from 1955 to 1989. *J Occup Environ Hyg*, 2015; 12(3):145-55. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25587876>

Pritsos CA and Muthumalage T. The impact of commonly used air filters in eliminating the exposure to secondhand smoke constituents. *Environ Sci Process Impacts*, 2015. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25586051>

King BA, Patel R, and Babb SD. Prevalence of smokefree home rules - United States, 1992-1993 and 2010-2011. *MMWR Morb Mortal Wkly Rep*, 2014; 63(35):765-9. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25188494>

Vardavas CI, Karabela M, Agaku IT, Matsunaga Y, Myridakis A, et al. Secondhand smoke exposure within semi-open air cafes and tobacco specific 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanol (NNAL) concentrations among nonsmoking employees. *Int J Occup Med Environ Health*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25218107>

Vardavas CI, Karabela M, Agaku IT, Matsunaga Y, Myridakis A, et al. Secondhand smoke exposure within semi-open air cafes and tobacco specific 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanol

tobaccoinaustralia.org.au

Tobacco in Australia

Facts & Issues

(NNAL) concentrations among nonsmoking employees. *Int J Occup Med Environ Health*, 2014.

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25218107>

Wise J. Living with a smoker is equivalent to living in a heavily polluted city, say researchers. *BMJ*, 2014; 349:g6318. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25335479>

Second-hand smoke in the home exceeds air safety limits for non-smokers. *Nurs Stand*, 2014; 29(13):17. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25424083>

Bono R, Tassinari R, Bellisario V, Gilli G, Pazzi M, et al. Urban air and tobacco smoke as conditions that increase the risk of oxidative stress and respiratory response in youth. *Environ Res*, 2014; 137C:141-146. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25531819>

Chambers C, Sung HY, and Max W. Home Exposure to Secondhand Smoke among People Living in Multiunit Housing and Single Family Housing: a Study of California Adults, 2003-2012. *J Urban Health*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25466438>

Lindsay RP, Tsoh JY, Sung HY, and Max W. Secondhand smoke exposure and serum cotinine levels among current smokers in the USA. *Tob Control*, 2014. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25398561>

O'Donnell MP. Why do we allow smokers to assault the people we love? Secondhand smoke, benzene, myelodysplastic syndrome, immunosuppression, and the americans with disabilities act. *Am J Health Promot*, 2014; 29(2):v-viii. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25361464>

Orton S, Jones LL, Cooper S, Lewis S, and Coleman T. Predictors of Children's Secondhand Smoke Exposure at Home: A Systematic Review and Narrative Synthesis of the Evidence. *PLoS One*, 2014; 9(11):e112690. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25397875>

St Helen G, Jacob P, 3rd, Peng M, Dempsey DA, Hammond SK, et al. Intake of toxic and carcinogenic volatile organic compounds from secondhand smoke in motor vehicles. *Cancer Epidemiol Biomarkers Prev*, 2014; 23(12):2774-82. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/25398951>

Ulbricht S, Unger F, Gross S, Nauck M, Meyer C, et al. Factors Associated with Secondhand Smoke Exposure Prevalence and Secondhand Smoke Level of Children Living with Parental Smokers: A Cross

Tobacco in Australia

Facts & Issues

Sectional Study. J Community Health, 2014. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25352414>

Veeranki SP, Mamudu HM, Zheng S, John RM, Cao Y, et al. Secondhand Smoke Exposure Among Never-Smoking Youth in 168 Countries. J Adolesc Health, 2014. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25529618>

Cho H, Lee K, Hwang Y, Richardson P, Bratset H, et al. Outdoor tobacco smoke exposure at the perimeter of a tobacco-free university. J Air Waste Manag Assoc, 2014; 64(8):863-6. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25185388>

Al Mulla A, Fanous N, Seidenberg AB, and Rees VW. Secondhand smoke emission levels in waterpipe cafes in Doha, Qatar. Tob Control, 2014. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25352562>

Wang Y, Yang M, Tian L, Huang Z, Chen F, et al. Relationship between Caregivers' Smoking at Home and Urinary Levels of Cotinine in Children. Int J Environ Res Public Health, 2014; 11(12):12499-513. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/25469922>

Kim, NH, Choi, H, Kim, NR, Shim, JS, Kim, HC. Secondhand smoke exposure and mental health problems in Korean adults. Epidemiol Health, 2016 Mar 14;38:e2016009. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26988086>

Travers, MJ, Nayak, NS, Annigeri, VB, Billava, NN. Indoor air quality due to secondhand smoke: Signals from selected hospitality locations in rural and urban areas of Bangalore and Dharwad districts in Karnataka, India. Indian J Cancer. 2015 Oct-Dec;52(4):708-13. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26960527>

Xu, Z et al. Tobacco use and exposure to second-hand smoke among urban residents: a community-based investigation. Int J Environ Res Public Health, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26295250>

Lewinson, T, Bryant, LO. "There's no-fresh air there": narratives of smoke exposure among residents of extended-stay hotels. Health & social work, May 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26027415>

tobaccoinaustralia.org.au

Tobacco in Australia

Facts & Issues

Wasel, J et al. Brand cigarillos: low price but high particulate matter levels-is their favorable taxation in the European Union justified? Int J Environ Res Public Health, 2015. Available from:

<http://www.ncbi.nlm.nih.gov/pubmed/26258782>

Weitzman, M, Yusufali, AH, Bali, F, Vilcassim, MJ, Gandhi, S, Peltier, R, Nadas, A, Sherman, S, Lee, L, Hong, Z, Shearston, J, Park, SH, Gordon, T. Effects of hookah smoking on indoor air quality in homes. Tob Control, Oct 2016. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/27798320>

Liu, J et al. Impairment of endothelial function by little cigar secondhand smoke. Tob Regul Sci, 2016. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/26753171>

News reports:

Watson, J. Passive smoking almost eradicated. The Times, 2018. Sept 4, 2018. Available from <https://www.thetimes.co.uk/article/passive-smoking-almost-eradicated-lqmd0w2vf>

Arnold, Stuart. Even an open window won't protect children from smoke in cars, say North-East researchers. The Northern Echo, 2015. Oct 1, 2015. Available from: http://www.thenorthernecho.co.uk/news/13794898.Ban_on_smoking_in_cars_with_children_present_comes_into_force_as_North_East_researchers_reveal_extent_of_youngsters_exposure_to_dangerous_chemicals/

No authors listed. Shocking new figures reveal the extent of damage to children smoking in cars causes. Western Daily Press, 2015. Oct 1, 2015. Available from: <http://www.westerndailypress.co.uk/Shocking-new-figures-reveal-extent-damage/story-27903049-detail/story.html>

No authors listed. Croydon North MP 'proud' as ban on smoking in cars with children comes into force. Croydon Advertiser, 2015. Oct 1, 2015. Available from: <http://www.croydonadvertiser.co.uk/Croydon-North-MP-proud-ban-smoking-cars-children/story-27903921-detail/story.html>

Griffiths, Sarah. Forget people, PLANTS are passive smokers too: Shrubs absorb nicotine from cigarette fumes and soil, study finds. Daily Mail, 2015. Apr 9, 2015. Available from: <http://www.dailymail.co.uk/sciencetech/article-3030645/Forget-people-PLANTS-passive-smokers-Shrubs-absorb-nicotine-cigarette-fumes-soil-study-finds.html>

tobaccoinaustralia.org.au

Tobacco in Australia

Facts & Issues

Liss, Susan M. New CDC report shows big drop in secondhand smoke exposure among Americans, but 58 million still exposed – Every state and community should be smoke-free. Campaign for Tobacco-Free Kids, 2015. Feb 3, 2015. Available from:

http://www.tobaccofreekids.org/press_releases/post/2015_02_03_cdc

No authors listed. As many as two-fifths of never-smoking teens are exposed to secondhand smoke worldwide. Brightsurf.com, 2015. Jan 13, 2015. Available from:

http://www.brightsurf.com/news/headlines/104984/As_many_as_two-fifths_of_never-smoking_teens_are_exposed_to_secondhand_smoke_worldwide_.html

Whiteman, Honor. Smoking is damaging your pet's health, researchers warn. Medical News Today, 2016. Jan 4, 2016. Available from: <http://www.medicalnewstoday.com/articles/304605.php?tw>

tobaccoinaustralia.org.au