



2019

# Thirdhand Smoke Bibliography



2530 San Pablo Avenue, Suite J  
Berkeley, CA 94702 ph: 510.841.3032  
1/10/2019

# Thirdhand Smoke

## Research Bibliography

*This partial bibliography of studies is provided for informational purposes only. It should not be considered to replace medical advice from your physician, nor should it be considered as a list of every existing study on this topic. The ANR Foundation is unable to provide copies of any of the studies. Links to either the study's abstract or full text are provided when available.*

Matt, G.E.; Hoh, E.; Quintana, P.J.E.; Zakarian, J.M.; Arceo, J., "[Cotton pillows: a novel field method for assessment of thirdhand smoke pollution](#)," *Environmental Research* 168: 206-210, January 2019.

Chen, Y.; Adhami, N.; Martins-Green, M., "[Biological markers of harm can be detected in mice exposed for two months to low doses of third hand smoke under conditions that mimic human exposure](#)," *Food and Chemical Toxicology* 122: 95-103, December 2018.

Díez-Izquierdo, A.; Cassanello-Peñarroya, P.; Lidón-Moyano, C.; Matilla-Santander, N.; Balaguer, A.; Martínez-Sánchez, J.M., "[Update on thirdhand smoke: a comprehensive systematic review](#)," *Environmental Research* 167: 341-371, November 2018.

Whitlatch, A.; Schick, S., "[Thirdhand smoke at Philip Morris](#)," *Nicotine and Tobacco Research* [Epub ahead of print]. July 20, 2018.

Hang, B.; Mao, J.; Snijders, A.M., "[Genetic susceptibility to thirdhand smoke induced lung cancer development](#)," *Nicotine and Tobacco Research* [Epub ahead of print], June 16, 2018.

DeCarlo, P.F.; Avery, A.M.; Waring, M.S., "[Thirdhand smoke uptake to aerosol particles in the indoor environment](#)," *Science Advances* 4(5): eaap8368, May 9, 2018.

Yu, M.; Mukai, K.; Tsai, M.; Galli, S.J., "[Thirdhand smoke component can exacerbate a mouse asthma model via mast cells](#)," *Journal of Allergy and Clinical Immunology* [Epub ahead of print], April 17, 2018.

Mahabee-Gittens, E.M.; Merianos, A.L.; Matt, G.E., "[Preliminary evidence that high levels of nicotine on children's hands may contribute to overall tobacco smoke exposure](#)," *Tobacco Control* 27(2):217-219, March 2018.

Hang, B.; Wang, Y.; Huang, Y.; Wang, P.; Langley, S.A.; Bi, L.; Sarker, A.H.; Schick, S.F.; Havel, C.; Jacob, III, P.; Benowitz, N.; Destailats, H.; Tang, X.; Xia, Y.; Jen, K.Y.; Gundel, L.A.; Mao, J.H.; Snijders, A., "[Short-term early exposure to thirdhand cigarette smoke increases lung cancer incidence in mice](#)," *Clinical Science* 132(4): 475-488, February 28, 2018.

Matt, G.E.; Quintana, P.J.E.; Hoh, E.; Zakarian, J.M.; Chowdhury, Z.; Hovell, M.F.; Jacob, P.; Watanabe, K.; Theweney, T.S.; Flores, V.; Nguyen, A.; Dhaliwal, N.; Hayward, G., "[A casino goes smoke free: a longitudinal study of secondhand and thirdhand smoke pollution and exposure](#)," *Tobacco Control* [Epub ahead of print], February 8, 2018.

Figueiró, L.R.; Linden, R.; Ziulkoski, A.L.; Dantas, D.C.M., "[Cellular effects of thirdhand tobacco smoke from smokers' homes](#)," *Toxicology Mechanisms and Methods* [Epub ahead of print], December 7, 2017.

Drehmer, J.E.; Walters, B.H.; Nabi-Burza, E.; Winickoff, J.P., "[Guidance for the clinical management of thirdhand smoke exposure in the child health care setting](#)," *Journal of Clinical Outcomes Management* 24(12):551-559, December 2017.

Liu, J.; Liang, Q.; Oldham, M.J.; Rostami, A.A.; Wagner, K.A.; Gillman, I.G.; Patel, P.; Savioz, R.; Sarkar, M., "[Determination of selected chemical levels in room air and on surfaces after the use of cartridge- and tank-based e-vapor products or conventional cigarettes](#)," *International Journal of Environmental Research and Public Health* 14(9): E969, September 2017.

Hang, B.; Wang, P.; Zhao, Y.; Sarker, A.; Chenna, A.; Xia, Y.; Snijders, A.M.; Mao, J.H., "[Adverse health effects of thirdhand smoke: from cell to animal models](#)," *International Journal of Molecular Sciences* 18(5): 932, April 28, 2017.

Hang, B.; Snijders, A.M.; Huang, Y.; Schick, S.F.; Wang, P.; Xia, Y.; Havel, C.; Jacob, III, P.; Benowitz, N.; Destailats, H.; Gundel, L.A.; Mao, J.H., "[Early exposure to thirdhand cigarette smoke affects body mass and the development of immunity in mice](#)," *Scientific Reports*[Epub ahead of print], February 3, 2017.

Roberts, C.; Wagler, G.; Carr, M.M., "[Environmental tobacco smoke: public perception of risks of exposing children to second- and third-hand tobacco smoke](#)," *Journal of Pediatric Health Care* 31(1): e7-e13, January-February 2017.

Haardörfer, R.; Berg, C.J.; Escoffery, C.; Bundy, ?.T.; Hovell, M.; Kegler, M.C., "[Development of a scale assessing Beliefs About ThirdHand Smoke \(BATHS\)](#)," *Tobacco Induced Diseases* 15: 4, January 17, 2017.

Delgado-Rendon A.; Cruz, T.B.; Soto, D.; Baezconde-Garbanati, L.; Unger, J.B., "[Second and thirdhand smoke exposure, attitudes and protective practices: results from a survey of hispanic residents in multi-unit housing](#)," *Journal of Immigrant and Minority Health* [Epub ahead of print], January 10, 2017.

Figueiró, L.R.; Ziulkoski, A.L.; Dantas, D.C., "[Thirdhand smoke: when the danger is more than you can see or smell](#)," *Cad Saude Publica*. 32(11): e00032216, December 1, 2016.

Jacob, III, P.; Benowitz, N.L.; Destailats, H.; Gundel, L.; Hang, B.; Martins-Green, M.; Matt, G.E.; Quintana, P.J.; Samet, J.M.; Schick, S.F.; Talbot, P.; Aquilina, N.J.; Hovell, M.F.; Mao, J.H.; Whitehead, T.P., "[Thirdhand smoke: new evidence, challenges, and future directions](#)," *Chemical Research in Toxicology* [Epub ahead of print], November 30, 2016.

Leung, L.T.; Ho, S.Y.; Wang, M.P.; Lam, T.H., "[Secondhand smoke from multiple sources, thirdhand smoke and respiratory symptoms in Hong Kong adolescents](#)," *Nicotine and Tobacco Research* [Epub ahead of print], November 2, 2016.

Northrup, T.F.; Khan, A.M.; Jacob, III, P.; Benowitz, N.L.; Hoh, E.; Hovell, M.F.; Matt, G.E.; Stotts, A.L., "[Thirdhand smoke contamination in hospital settings: assessing exposure risk for vulnerable paediatric patients](#)," *Tobacco Control* 25(6): 619-623, November 2016.

Matt, G.E.; Quintana, P.; Zakarian, J.M.; Hoh, E.; Hovell, M.F.; Mahabee-Gittens, M.; Watanabe, K.; Datuin, K.; Vue, C.; Chatfield, D.A., "[When smokers quit: exposure to nicotine and carcinogens persists from thirdhand smoke pollution](#)," *Tobacco Control* [Epub ahead of print], September 21, 2016.

Dhall, S.; Amat, R.; Castro, A.; Sarker, A.H.; Mao, J.H.; Chan, A.; Hang, B.; Martins-Green, M., "[Tobacco toxins deposited on surfaces \(third hand smoke\) impair wound healing](#)," *Clinical Science* 130(14): 1269-1284, June 13, 2016.

Figueiró, L.R.; Dantas, D.C.; Linden, R.; Ziulkoski, A.L., "[Thirdhand tobacco smoke: procedures to evaluate cytotoxicity in cell cultures](#)," *Toxicology Mechanisms and Methods* [Epub ahead of print], June 7, 2016.

Bahl, V.; Johnson, K.; Phandthong, R.; Zahedi, A.; Schick, S.F.; Talbot, P., "[Thirdhand cigarette smoke causes stress-induced mitochondrial hyperfusion and alters the transcriptional profile of](#)

[stem cells](#)," *Toxicological Sciences* [Epub ahead of print], June 2, 2016.

Darlow, S.D.; Heckman, C.J.; Munshi, T.; Collins, B.N., "[Thirdhand smoke beliefs and behaviors among healthcare professionals](#)," *Psychology, Health & Medicine* [Epub ahead of print], May 2016.

Xu, B.; Chen, M.; Yao, M.; Ji, X.; Mao, Z.; Tang, W.; Qiao, S.; Schick, S.F.; Mao, J.; Hang, B.; Xia, Y., "[Corrigendum: metabolomics reveals metabolic changes in male reproductive cells exposed to thirdhand smoke](#)," *Scientific Reports* 5: 15512, April 13, 2016.

Northrup, T.F.;, Jacob, III, P.; Benowitz, N.L.;, Hoh, E.; Quintana, P.J.; Hovell, M.F.; Matt, G.E.; Stotts, A.L., "[Thirdhand smoke: state of the science and a call for policy expansion](#)," *Public Health Reports* 131(2): 233-238, March-April 2016. **Abstract unavailable.**

Adhami, N.; Starck, S.R.; Flores, C.; Martins Green, M., "[A health threat to bystanders living in the homes of smokers: how smoke toxins deposited on surfaces can cause insulin resistance](#)," *PLOS One*, March 2, 2016.

Ganjre, A.P.; Sarode, G.S., "[Third hand smoke--a hidden demon](#)," *Oral Oncology* 54: e3-4, March 2016.

Bahl, V.; Weng, N.J.; Schick, S.F.; Sleiman, M.; Whitehead, J.; Ibarra, A.; Talbot, P., "[Cytotoxicity of thirdhand smoke and identification of acrolein as a volatile thirdhand smoke chemical that inhibits cell proliferation](#)," *Toxicological Sciences* [Epub ahead of print], December 29, 2015.

Bahl, V.; Shim, H.J.; Jacob, III., P.; Dias, K.; Schick, S.F.; Talbot, P., "[Thirdhand smoke: chemical dynamics, cytotoxicity, and](#)

[genotoxicity in outdoor and indoor environments](#)," *Toxicology in Vitro* [Epub ahead of print], December 10, 2015.

Rendon, A.D.; Unger, J.B.; Cruz, T.; Soto, D.W.; Baezconde-Garbanati, L., "[Perceptions of secondhand and thirdhand smoke among Hispanic residents of multiunit housing](#)," *Journal of Immigrant and Minority Health* [Epub ahead of print], November 6, 2015.

Acuff, L.; Fristoe, K.; Hamblen, J.; Smith, M.; Chen, J., "[Third-hand smoke: old smoke, new concerns](#)," *Journal of Community Health*[Epub ahead of print], October 29, 2015.

Samet, J.M.; Chanson, D.; Wipfli, H., "[The challenges of limiting exposure to ths in vulnerable populations](#)," *Current Environmental Health Reports* 2(3): 215-225, September 2015.

Northrup, T. F., Matt, G. E., Hovell, M. F., Khan, A. M., Stotts, A.L., "[Thirdhand smoke in the homes of medically fragile children: assessing the impact of indoor smoking levels and smoking bans](#)," *Health Nicotine & Tobacco* [Epub ahead of print], August 26, 2015.

Karim, Z.A.; Alshbool, F.Z.; Vemana, H.P.; Adhami, N.; Dhall, S.; Espinosa, E.V.; Martins-Green, M.; Khasawneh, F.T., "[Third-hand smoke: impact on hemostasis and thrombogenesis](#)," *Journal of Cardiovascular Pharmacology* 66(2): 177-182, August 2015.

Santos E Silva, S.I.; Bowdler, P.; Giltrow, D.; Riddell, S.; Honeychurch, K.C., "[A simple and rapid method for the determination of nicotine in third-hand smoke by liquid chromatography and its application for the assessment of contaminated outdoor communal areas](#)," *Drug Testing and Analysis*[Epub ahead of print], June 8, 2015.

Bush, D.; Goniewicz, M.L., "[A pilot study on in houses of electronic cigarette users, tobacco smokers, and non-users of](#)

[nicotine-containing products](#)," *International Journal on Drug Policy* 26(6): 609-611, June 2015.

Sleiman, M.; Logue, J.; Luo, W.; Pankow, J.F.; Gundel, L.; Destailats, H., "[Inhalable constituents of thirdhand tobacco smoke: chemical characterization and health impact considerations](#)," *Environmental Science and Technology* 48(22): 13093-13101, November 18, 2014.

Bahl, V.; Jacob, P.; Havel, C.; Schick, S.F.; Talbot, P., "[Thirdhand cigarette smoke: factors affecting exposure and remediation](#)," *PLoS One* 9(10): e108258, October 6, 2014.

Ramirez, N.; Ozel, M.Z.; Lewis, A.C.; Marce, R.M.; Borrull, F.; Hamilton, J.F., "[Exposure to nitrosamines in thirdhand tobacco smoke increases cancer risk in non-smokers](#)," *Environment International* 71: 139-147, October 2014.

Kassem, N.O.F.; Daffa, R.M.; Liles, S.; Jackson, S.R.; Kassem, N.O.; Younis, M.A.; Mehta, S.; Chen, M.; Jacob III, P.; Carmella, S.G.; Chatfield, D.A.; Benowitz, N.L.; Matt, G.E.; Hecht, S.S.; Hovell, M.F., "[Children's exposure to secondhand and thirdhand smoke carcinogens and toxicants in homes of hookah smokers](#)," *Nicotine and Tobacco Research* 16(7): 961-975, July 2014.

Semple, S.; Latif, N., "[How long does secondhand smoke remain in household air: analysis of PM2.5 data from smokers' homes](#)," *Nicotine and Tobacco Research* [Epub ahead of print], June 5, 2014.

Matt, G.E.; Quintana, P.J.E.; Fortmann, A.L.; Zakarian, J.M.; Galaviz, V.E.; Chatfield, D.A.; Hoh, E.; Hovell, M.F.; Winston, C., "[Thirdhand smoke and exposure in California hotels: non-smoking rooms fail to protect non-smoking hotel guests from tobacco smoke exposure](#)," *Tobacco Control* 23(3): 264-272, May 2014.



Schick, S.F.; Farraro, K.F.; Perrino, C.; Sleiman, M.; van de Vossenberg, G.; Trinh, M.P.; Hammond, S.K.; Jenkins, B.M.; Balmes, J., "[Thirdhand cigarette smoke in an experimental chamber: evidence of surface deposition of nicotine, nitrosamines and polycyclic aromatic hydrocarbons and de novo formation of NNK](#)," *Tobacco Control* 23(3): 152-159, May 2014.

Drehmer, J.E.; Ossip, D.J.; Nabi-Burza, E.; Rigotti, N.A.; Hipple, B.; Woo, H.; Chang, Y.; Winickoff, J.P., "[Thirdhand smoke beliefs of parents](#)," *Pediatrics* [Epub ahead of print], March 3, 2014.

Martins-Green, M.; Adhami, N.; Frankos, M.; Valdez, M.; Goodwin, B.; Lyubovitsky, J.; Dhall, S.; Garcia, M.; Egiebor, I.; Martinez, B.; Green, H.W.; Havel, C.; Yu, L.; Curras-Collazo, M., "[Cigarette smoke toxins deposited on surfaces: implications for human health](#)," *PLOS ONE*, January 29, 2014

Thomas, J.L.; Hecht, S.S.; Luo, X.; Ming, X.; Ahluwalia, J.S.; Carmella, S.G., "[Thirdhand tobacco smoke: a tobacco-specific lung carcinogen on surfaces in smokers' homes](#)," *Nicotine and Tobacco Research* 16(1): 26-32, January 2014.

Whitehead, T.P.; Metayer, C.; Park, J.S.; Does, M.; Buffler, P.A.; Rappaport, S.M., "[Levels of nicotine in dust from homes of smokeless tobacco users](#)," *Nicotine and Tobacco Research* 15(12): 2045-2052, December 2013.

Schick, S.F.; Farraro, K.F.; Perrino, C.; Sleiman, M.; van de Vossenberg, G.; Trinh, M.P.; Hammond, S.K.; Jenkins, B.M.; Balmes, J., "[Thirdhand cigarette smoke in an experimental chamber: evidence of surface deposition of nicotine, nitrosamines and polycyclic aromatic hydrocarbons and de novo formation of NNK](#)," *Tobacco Control* [Epub ahead of print], May 28, 2013.

Escoffery, C.; Bundy, L.; Carvalho, M.; Yembra, D.; Haardorfer, R.; Berg, C.; Kegler, M.C., "[Third-hand smoke as a potential intervention message for promoting smoke-free homes in low-](#)

[income communities](#)," *Health Education Research* [Epub ahead of print], May 13, 2013.

Matt, G.E.; Fortmann, A.L.; Quintana, P.J.E.; Zakarian, J.M.; Romero, R.A.; Chatfield, D.A.; Hoh, E.; Hovell, M.F., "[Towards smoke-free rental cars: an evaluation of voluntary smoking restrictions in California](#)," *Tobacco Control* 22(3): 201-207, May 2013.

Hang, B.; Sarker, A.H.; Havel, C.; Saha, S.; Hazra, T.K.; Schick, S.; Jacob, P.; Rehan, V.K.; Chenna, A.; Sharan, D.; Sleiman, M.; Destailats, H.; Gundel, L.A., "[Thirdhand smoke causes DNA damage in human cells](#)," *Mutagenesis* [Epub ahead of print], March 5, 2013.

Quintana, P.J.; Matt, G.E.; Chatfield, D.; Zakarian, J.M.; Fortmann, A.L.; Hoh, E., "[Wipe sampling for nicotine as a marker of thirdhand tobacco smoke contamination on surfaces in homes, cars, and hotels](#)," *Nicotine and Tobacco Research* [Epub ahead of print], March 4, 2013.

Ferrante, G.; Simoni, M.; Cibella, F.; Ferrara, F.; Liotta, G.; Malizia, V.; Corsello, G.; Viegi, G.; La Grutta, S., "[Third-hand smoke exposure and health hazards in children](#)," *Monaldi Arch Chest Dis*.79(1): 38-43, March 2013.

Drehmer, J.E.; Ossip, D.J.; Rigotti, N.A.; Nabi-Burza, E.; Woo, H.; Wasserman, R.C.; Chang, Y.; Winickoff, J.P., "[Pediatrician interventions and thirdhand smoke beliefs of parents](#)," *American Journal of Preventive Medicine* 43(5): 533-536, November 2012.

Hood, N.E.; Ferketich, A.K.; Klein, E.G.; Pirie, P.; Wewers, M.E., "[Associations between self-reported in-home smoking behaviours and surface nicotine concentrations in multiunit subsidised housing](#)," *Tobacco Control* [Epub ahead of print], October 23, 2012.

Fleming, T.; Anderson, C.; Amin, S.; Ashley, J., "[Third-hand tobacco smoke: significant vector for PAH exposure or non-issue?](#)", *Integrated Environmental Assessment and Management* 8(4): 763-764, October 2012.

Hoh, E.; Hunt, R.N.; Quintana, P.J.E.; Zakarian, J.M.; Chatfield, D.A.; Wittry, B.C.; Rodriguez, E.; Matt, G.E., "[Environmental tobacco smoke as a source of polycyclic aromatic hydrocarbons in settled household dust](#)," *Environmental Science & Technology* 46(3): 4174 - 4183, April 3, 2012.

Matt, G.E.; Fortmann, A.L.; Quintana, P.J.; Zakarian, J.M.; Romero, R.A.; Chatfield, D.A.; Hoh, E.; Hovell, M.F., "[Towards smoke-free rental cars: an evaluation of voluntary smoking restrictions in California](#)," *Tobacco Control* [Epub ahead of print], February 15, 2012.


Jung, J.W.; Ju, Y.S.; Kang, H.R., "[Association between parental smoking behavior and children's respiratory morbidity: 5-year study in an urban city of South Korea](#)," *Pediatric Pulmonology* [Epub ahead of print], October 17, 2011.

Tillett, T., "[Thirdhand smoke in review: research needs and recommendations](#)," *Environmental Health Perspectives* 11(9): A399, September 2011.

Matt, G.E.; Quintana, P.J.E.; Destailats, H.; Gundel, L.A.; Sleiman, M.; Singer, B.C.; Jacob III, P.; Benowitz, N.; Winickoff, J.P.; Rehan, V.; Samet, J.; Wang, Y.; Hang, B.; Martins-Green, M.; Pankow, F.J.; Hovell, M.F.; Talbot, P.; Schick, S., "[Thirdhand tobacco smoke: emerging evidence and arguments for a multidisciplinary research agenda](#)," *Environmental Health Perspectives* [Epub ahead of print], May 31, 2011.

Rehan, V.K.; Sakurai, R.; Torday, J.S., "[Thirdhand smoke: a new dimension to the effects of cigarette smoke on the developing lung](#)," *American Journal of Physiology Lung Cellular and Molecular Physiology* [Epub ahead of print], April 8, 2011.

Thomas, J.L.; Guo, H.; Carmella, S.G.; Balbo, S.; Han, S.; Davis, A.; Yoder, A.; Murphy, S.E.; An, L.C.; Ahluwalia, J.S.; Hecht, S.S., "[Metabolites of a tobacco-specific lung carcinogen in children exposed to secondhand or thirdhand tobacco smoke in their homes](#)," *Cancer, Epidemiology, Biomarkers & Prevention* [Epub ahead of print], April 5, 2011.

 Burton, A., "[Does the smoke ever really clear? Thirdhand smoke exposure raises new concerns](#)," *Environmental Health Perspectives* 119(2): a70-a74, February 1, 2011.

Schick, S., "[Thirdhand smoke: here to stay](#)," *Tobacco Control* 20(1): 1-3, January 2011.

Matt, G.; Quintana, P.J.E.; Zakarian, J.M.; Fortmann, A.L.; Chatfield, D.A.; Hoh, E.; Uribe, A.M.; Hovell, M.F., "[When smokers move out and non-smokers move in: residential thirdhand smoke pollution and exposure](#)," *Tobacco Control* 20(1): e1, January 2011.

Kuschner, W.G.; Reddy, S.; Mehrotra, N.; Paintal, H.S., "[Electronic cigarettes and thirdhand tobacco smoke: two emerging health care challenges for the primary care provider](#)," *International Journal of General Medicine* 4: 115-120, 2011.

Petrack, L.M.; Svidovsky, A.; Dubowski, Y., "[Thirdhand smoke: heterogeneous oxidation of nicotine and secondary aerosol formation in the indoor environment](#)," *Environmental Science & Technology* 45 (1): 328-333, 2011.

Fortmann, A.L.; Romero, R.A.; Sklar, M.; Pham, V.; Zakarian, J.; Quintana, P.J.E.; Chatfield, D.; Matt, G.E., "[Residual tobacco smoke in used cars: futile efforts and persistent pollutants](#)," *Nicotine and Tobacco Research* [Epub ahead of print], August 30, 2010.

Becquemin, M.H.; Bertholon, J.F.; Bentayeb, M.; Attoui, M.; Ledur, D.; Roy, F.; Roy, M.; Annesi-Maesano, I.; Dautzenberg, B., "[Third-hand smoking: indoor measurements of concentration and sizes of cigarette smoke particles after resuspension](#)," *Tobacco Control* 19(4): 347-348, August 2010.

Tuma, R.S., "[Thirdhand smoke: studies multiply, catchy name raises awareness](#)," *Journal of the National Cancer Institute* [Epub ahead of print], July 8, 2010.

Dreyfuss, J.H., "[Thirdhand smoke identified as potent, enduring carcinogen](#)," *CA: A Cancer Journal for Clinicians* [Epub ahead of print], June 8, 2010.

Becquemin, M.H.; Bertholon, J.F.; Bentayeb, M.; Attoui, M.; Ledur, D.; Roy, F.; Roy, M.; Annesi-Maesano, I.; Dautzenberg, B., "[Third-hand smoking: indoor measurements of concentration and sizes of cigarette smoke particles after resuspension](#)," *Tobacco Control*[Epub ahead of print], June 7, 2010.

Ueta, I.; Saito, Y.; Teraoka, K.; Miura, T.; Jinno, K., "[Determination of volatile organic compounds for a systematic evaluation of third-hand smoking](#)," *Analytical Sciences* 26(5): 569-574, May 2010.

Sleiman, M.; Gundel, L.A.; Pankow, J.F.; Jacob III, P.; Singer, B.C.; Destailats, H., "[Formation of carcinogens indoors by surface-mediated reactions of nicotine with nitrous acid, leading to potential thirdhand smoke hazards](#)," *Proceedings of the National Academy of Sciences* [Epub ahead of print], February 8, 2010.

Winickoff, J.P.; Friebely, J.; Tanski, S.E.; Sherrod, C.; Matt, G.E.; Hovell, M.F.; McMillen, R.C., PhD., "[Beliefs about the health effects of 'thirdhand' smoke and home smoking bans](#)," *Pediatrics* 123(1), January 2009.


Matt, G.E.; Quintana, P.J.; Hovell, M.F.; Chatfield, D.; Ma, D.S.; Romero, R.; Uribe, A., "[Residual tobacco smoke pollution in used cars for sale: air, dust, and surfaces](#)," *Nicotine and Tobacco Research* 10(9): 1467-1475, September 2008.

Schick, S.F.; Glantz, S., "[Concentrations of the carcinogen 4-\(Methylnitrosamino\)-1-\(3-Pyridyl\)-1-Butanone in sidestream cigarette smoke increase after release into indoor air: results from unpublished tobacco industry research](#)," *Cancer Epidemiology, Biomarkers & Prevention* 16(8): 1547-1553, August 2007.

Singer, B., "Direct and indirect exposures to secondhand smoke," Lawrence Berkeley National Lab, Atmospheric Sciences & Indoor Environment Departments, [2006]. **Abstract unavailable.**

Willers, S.; Hein, H.O.; Jansson, L., "[Assessment of environmental tobacco smoke exposure: urinary cotinine concentrations in children are strongly associated with the house dust concentrations of nicotine at home](#)," *Indoor Air* 14(2): 83-86, April 2004.

Matt, G.E.; Quintana, P.J.E.; Hovell, M.F.; Bernert, J.T.; Song, S.; Novianti, N.; Juarez, T.; Floro, J.; Gehrman, C.; Garcia, M.; Larson, S., "[Households contaminated by environmental tobacco smoke: sources of infant exposures](#)," *Tobacco Control* 13(1): 29-37, March 2004.

 Singer, B.C.; Hodgson, A.T.; Nazaroff, W.W., "[Effect of sorption on exposures to organic gases from environmental tobacco smoke \(ETS\)](#)," *Proceedings: Indoor Air 2002*, 2002.