

## Supplementary Material

**Table S1.** Collection of the 103 articles included in this narrative review on IQOS toxicity and health impact. The list is sorted according to the topic, data source, year of publication, toxicity/health effects, and study design.

Title	DOI/PMID/URL	Data Source	Topic	Year	Toxicity/Health effects	Study Design
3-D Nasal Cultures: Systems Toxicological Assessment of a Candidate Modified-Risk Tobacco Product	10.14573/altex.1605041	PMI	Tox	2017	Pulmonary toxicity	Systems Toxicology
A six-month systems toxicology inhalation/cessation study in ApoE(-/-) mice to investigate cardiovascular and respiratory exposure effects of modified risk tobacco products, CHTP 1.2 and THS 2.2, compared with conventional cigarettes	10.1016/j.fct.2019.02.008	PMI	Tox	2019	Pulmonary/cardiovascular toxicity	Systems Toxicology
A systems toxicology approach for comparative assessment: Biological impact of an aerosol from a candidate modified-risk tobacco product and cigarette smoke on human organotypic bronchial epithelial cultures	10.1016/j.tiv.2016.11.009	PMI	Tox	2017	Pulmonary toxicity	Systems Toxicology
Aerosol from a candidate modified risk tobacco product has reduced	10.1016/j.fct.2015.09.016	PMI	Tox	2015	Cardiovascular Toxicity	In Vitro

effects on chemotaxis and transendothelial migration compared to combustion of conventional cigarettes						
Aerosol from Tobacco Heating System 2.2 has reduced impact on mouse heart gene expression compared with cigarette smoke	10.1016/j.fct.2017.01.013	PMI	Tox	2017	Cardiovascular Toxicity	Systems Toxicology
An 8-Month Systems Toxicology Inhalation/Cessation Study in Apoe <sup>-/-</sup> Mice to Investigate Cardiovascular and Respiratory Exposure Effects of a Candidate Modified Risk Tobacco Product, THS 2.2, Compared With Conventional Cigarettes	10.1093/toxsci/kfv243	PMI	Tox	2016	Pulmonary/cardiovascular toxicity	Systems Toxicology
Comparative effects of a candidate modified-risk tobacco product Aerosol and cigarette smoke on human organotypic small airway cultures: a systems toxicology approach	10.1039/c7tx00152e	PMI	Tox	2017	Pulmonary toxicity	Systems Toxicology
Comparative systems toxicology analysis of cigarette smoke and aerosol from a candidate modified risk tobacco product in organotypic human gingival epithelial cultures: A 3-day repeated exposure study	10.1016/j.fct.2016.12.027	PMI	Tox	2017	Other Systemic Toxicity	Systems Toxicology

Comparison of monoamine oxidase inhibition by cigarettes and modified risk tobacco products	10.1016/j.toxrep.2019.11.008	PMI	Tox	2019	Other Systemic Toxicity	In Vitro
Crowd-Sourced Verification of Computational Methods and Data in Systems Toxicology: A Case Study with a Heat-Not-Burn Candidate Modified Risk Tobacco Product	10.1021/acs.chemrestox.6b00345	PMI	Tox	2017	blood transcriptomics	Systems Toxicology
Effects of cigarette smoke, cessation and switching to a candidate modified risk tobacco product on the liver in Apoe(-/-) mice - a systems toxicology analysis	10.3109/08958378.2016.1150368	PMI	Tox	2016	Other Systemic Toxicity	Systems Toxicology
Effects of Cigarette Smoke, Cessation, and Switching to Two Heat-Not-Burn Tobacco Products on Lung Lipid Metabolism in C57BL/6 and Apoe-/- Mice-An Integrative Systems Toxicology Analysis	10.1093/toxsci/kfv244	PMI	Tox	2016	Pulmonary toxicity	Systems Toxicology
Evaluation of the Tobacco Heating System 2.2 (THS2.2). Part 5: microRNA expression from a 90-day rat inhalation study indicates that exposure to THS2.2 aerosol causes reduced effects on lung tissue compared with cigarette smoke	10.1016/j.yrtph.2016.11.018	PMI	Tox	2016	Pulmonary toxicity	Systems Toxicology

Evaluation of the Tobacco Heating System 2.2. Part 4: 90-day OECD 413 rat inhalation study with systems toxicology endpoints demonstrates reduced exposure effects compared with cigarette smoke	10.1016/j.yrtph.2016.10.015	PMI	Tox	2016	Pulmonary toxicity	systems Toxicology
Evaluation of the Tobacco Heating System 2.2. Part 6: 90-day OECD 413 rat inhalation study with systems toxicology endpoints demonstrates reduced exposure effects of a mentholated version compared with mentholated and non-mentholated cigarette smoke	10.1016/j.yrtph.2016.11.004	PMI	Tox	2016	Pulmonary toxicity	Systems Toxicology
Evaluation of the Tobacco Heating System 2.2. Part 7: Systems toxicological assessment of a mentholated version revealed reduced cellular and molecular exposure effects compared with mentholated and non-mentholated cigarette smoke	10.1016/j.yrtph.2016.11.001	PMI	Tox	2016	Pulmonary toxicity	Systems Toxicology
Impact of switching to a heat-not-burn tobacco product on CYP1A2 activity	10.1016/j.toxrep.2020.10.017	PMI	Tox	2020	Other Systemic Toxicity	In Vivo
In Vitro Systems Toxicology Assessment of a Candidate Modified Risk Tobacco Product Shows Reduced Toxicity	10.1021/acs.chemrestox.5b00321	PMI	Tox	2016	Pulmonary toxicity	Systems Toxicology

Compared to That of a Conventional Cigarette						
Mitochondrial Network and Biogenesis in Response to Short and Long-Term Exposure of Human BEAS-2B Cells to Aerosol Extracts from the Tobacco Heating System 2.2	10.33594/000000216	PMI	Tox	2020	Pulmonary toxicity	In Vitro
Impact of 6-Month Exposure to Aerosols From Potential Modified Risk Tobacco Products Relative to Cigarette Smoke on the Rodent Gastrointestinal Tract	10.3389/fmicb.2021.587745	PMI	Tox	2021	Other Systemic Toxicity	In Vivo
Multi-omics systems toxicology study of mouse lung assessing the effects of aerosols from two heat-not-burn tobacco products and cigarette smoke	10.1016/j.csbj.2020.04.011	PMI	Tox	2020	Pulmonary toxicity	systems Toxicology
Reduced Chronic Toxicity and Carcinogenicity in A/J Mice in Response to Life-Time Exposure to Aerosol from a Heated Tobacco Product Compared with Cigarette Smoke	10.1093/toxsci/kfaa131	PMI	Tox	2020	Pulmonary toxicity	In Vivo
Respiratory effects of exposure to aerosol from the candidate modified-risk tobacco product THS 2.2 in an 18-month systems toxicology study with A/J mice	10.1093/toxsci/kfaa132	PMI	Tox	2020	Pulmonary toxicity	Systems Toxicology

Structural, functional, and molecular impact on the cardiovascular system in ApoE(-/-) mice exposed to aerosol from candidate modified risk tobacco products, Carbon Heated Tobacco Product 1.2 and Tobacco Heating System 2.2, compared with cigarette smoke	10.1016/j.cbi.2019.108887	PMI	Tox	2020	Cardiovascular Toxicity	Systems Toxicology
Systems Toxicology Assessment of the Biological Impact of a Candidate Modified Risk Tobacco Product on Human Organotypic Oral Epithelial Cultures	10.1021/acs.chemrestox.6b00174	PMI	Tox	2016	Other Systemic Toxicity	Systems Toxicology
Systems toxicology meta-analysis of in vitro assessment studies: biological impact of a candidate modified-risk tobacco product aerosol compared with cigarette smoke on human organotypic cultures of the aerodigestive tract	10.1039/c7tx00047b	PMI	Tox	2017	Pulmonary toxicity	Systems Toxicology
Systems toxicology study reveals reduced impact of heated tobacco product aerosol extract relative to cigarette smoke on premature aging and exacerbation effects in aged aortic cells in vitro	10.1007/s00204-021-03123-y	PMI	Tox	2021	Cardiovascular Toxicity	Systems Toxicology
Systems toxicology-based assessment of the candidate modified risk tobacco product THS2.2 for the adhesion of	10.1016/j.tox.2015.11.007	PMI	Tox	2016	Cardiovascular Toxicity	Systems Toxicology

monocytic cells to human coronary arterial endothelial cells						
The biological effects of long-term exposure of human bronchial epithelial cells to total particulate matter from a candidate modified-risk tobacco product	10.1016/j.tiv.2018.02.019	PMI	Tox	2018	Pulmonary toxicity	Systems Toxicology
Tobacco Heating System 2.2 has a limited impact on DNA methylation of candidate enhancers in mouse lung compared with cigarette smoke	10.1016/j.fct.2018.11.020	PMI	Tox	2019	Pulmonary toxicity	In Vivo
Toxicological assessment of Tobacco Heating System 2.2: Findings from an independent peer review	10.1016/j.yrtph.2019.03.007	PMI	Tox	2019	Pulmonary/cardiovascular toxicity	Systems Toxicology
Impact of aerosols on liver xenobiotic metabolism: A comparison of two methods of exposure.	<a href="https://doi.org/10.1016/j.tiv.2021.105277">https://doi.org/10.1016/j.tiv.2021.105277</a>	PMI	Tox	2022	Pulmonary toxicity	In Vitro
Comparing the preclinical risk profile of inhalable candidate and potential candidate modified risk tobacco products: A bridging use case	10.1016/j.toxrep.2020.09.004	PMI	Tox	2020	Pulmonary/cardiovascular toxicity	Systems Toxicology
"Assessment of mitochondrial function following short- and long-term exposure of human bronchial epithelial cells to total particulate matter from a candidate modified-risk	<a href="https://doi.org/10.1016/j.fct.2018.02.013">https://doi.org/10.1016/j.fct.2018.02.013</a>	PMI	Tox	2018	Pulmonary toxicity	In Vitro

tobacco product and reference cigarettes"						
Effects of cigarette smoke and tobacco heating aerosol on color stability of dental enamel, dentin, and composite resin restorations	10.3290/j.qi.a41601	PMI	Tox	2019	Other Systemic Toxicity	In Vitro
A Meta-Analysis of the Performance of a Blood-Based Exposure Response Gene Signature Across Clinical Studies on the Tobacco Heating System 2.2 (THS 2.2)	10.3389/fphar.2019.00198	PMI	Health	2019	Other Systemic Toxicity	Clinical
Assessment of the reduction in levels of exposure to harmful and potentially harmful constituents in Japanese subjects using a novel tobacco heating system compared with conventional cigarettes and smoking abstinence: A randomized controlled study in confinement	10.1016/j.yrtph.2016.09.014	PMI	Health	2016	Biomarkers of Exposure	Clinical
Biomarker of exposure level data set in smokers switching from conventional cigarettes to Tobacco Heating System 2.2, continuing smoking or abstaining from smoking for 5 days	10.1016/j.dib.2016.11.047	PMI	Health	2017	Biomarkers of Exposure	Clinical
Comparison of the Pharmacokinetics of Nicotine Following Single and Ad Libitum Use of a Tobacco Heating	10.1093/ntr/ntv220	PMI	Health	2016	Biomarkers of Exposure	Clinical



System or Combustible Cigarettes						
Effects of Switching to a Heat-Not-Burn Tobacco Product on Biologically Relevant Biomarkers to Assess a Candidate Modified Risk Tobacco Product: A Randomized Trial	10.1158/1055-9965.epi-18-0915	PMI	Health	2019	Biomarkers of Exposure/health effects	Clinical
Effects of Switching to the Menthol Tobacco Heating System 2.2, Smoking Abstinence, or Continued Cigarette Smoking on Clinically Relevant Risk Markers: A Randomized, Controlled, Open-Label, Multicenter Study in Sequential Confinement and Ambulatory Settings (Part 2)	10.1093/ntr/ntx028	PMI	Health	2018	Pulmonary/cardiovascular toxicity	Clinical
Effects of Switching to the Tobacco Heating System 2.2 Menthol, Smoking Abstinence, or Continued Cigarette Smoking on Biomarkers of Exposure: A Randomized, Controlled, Open-Label, Multicenter Study in Sequential Confinement and Ambulatory Settings (Part 1)	10.1093/ntr/ntw287	PMI	Health	2018	Biomarkers of Exposure	Clinical
Evaluation of the Tobacco Heating System 2.2. Part 8: 5-Day randomized reduced	10.1016/j.yrtph.2016.11.003	PMI	Health	2016	Biomarkers of Exposure	Clinical

exposure clinical study in Poland						
Evaluation of the tobacco heating system 2.2. Part 9: Application of systems pharmacology to identify exposure response markers in peripheral blood of smokers switching to THS2.2	10.1016/j.yrtph.2016.11.011	PMI	Health	2016	Other Systemic Toxicity	Clinical
Favorable Changes in Biomarkers of Potential Harm to Reduce the Adverse Health Effects of Smoking in Smokers Switching to the Menthol Tobacco Heating System 2.2 for 3 Months (Part 2)	10.1093/ntr/ntz084	PMI	Health	2020	Cardiovascular Toxicity	Clinical
Nicotine pharmacokinetic profiles of the Tobacco Heating System 2.2, cigarettes and nicotine gum in Japanese smokers	10.1016/j.yrtph.2017.07.032	PMI	Health	2017	Biomarkers of Exposure	Clinical
Reduced Exposure to Harmful and Potentially Harmful Smoke Constituents With the Tobacco Heating System 2.1	10.1093/ntr/ntw164	PMI	Health	2017	Biomarkers of Exposure	Clinical
Reduction in Exposure to Selected Harmful and Potentially Harmful Constituents Approaching Those Observed Upon Smoking Abstinence in Smokers Switching to the Menthol Tobacco Heating System 2.2 for 3 Months (Part 1)	10.1093/ntr/ntz013	PMI	Health	2020	Biomarkers of Exposure	Clinical
Cancer potencies and margin of exposure used	10.1007/s00204-020-02924-x	PMI	Health	2021	Biomarkers of Exposure	Risk assessment

for comparative risk assessment of heated tobacco products and electronic cigarettes aerosols with cigarette smoke						
Comparative study of the effects of cigarette smoke versus next generation tobacco and nicotine product extracts on endothelial function	10.1016/j.redox.2021.102150	Other	Tox	2021	Cardiovascular Toxicity	In Vitro
In vitro RNA-seq-based toxicogenomics assessment shows reduced biological effect of tobacco heating products when compared to cigarette smoke	10.1038/s41598-018-19627-0	Other	Tox	2018	Pulmonary toxicity	Systems Toxicology
The use of human induced pluripotent stem cells to screen for developmental toxicity potential indicates reduced potential for non-combusted products, when compared to cigarettes	10.1016/j.crtox.2020.11.001	Other	Tox	2020	Other Systemic Toxicity	In Vitro
Changes in Biomarkers of Exposure on Switching From a Conventional Cigarette to Tobacco Heating Products: A Randomized, Controlled Study in Healthy Japanese Subjects	10.1093/ntr/nty104	Other	Health	2019	Biomarkers of Exposure	Clinical
Acute Effects of Heated Tobacco Product (IQOS) Aerosol Inhalation on Lung Tissue Damage and	10.1093/ntr/ntaa267	Ind	Tox	2021	Pulmonary toxicity	In Vivo

Inflammatory Changes in the Lungs						
Assessment of tobacco heating system 2.4 on osteogenic differentiation of mesenchymal stem cells and primary human osteoblasts compared to conventional cigarettes	10.4252/WJSC.V12.I8.841	Ind	Tox	2020	Other Systemic Toxicity	In Vitro
Cigarette smoke extract and heated tobacco products promote ferritin cleavage and iron accumulation in human corneal epithelial cells	10.1038/s41598-021-97956-3	Ind	Tox	2021	Other Systemic Toxicity	In Vitro
Comparison of cytotoxicity of cigarette smoke extract derived from heat-not-burn and combustion cigarettes in human vascular endothelial cells	10.1016/j.jphs.2021.07.005	Ind	Tox	2021	Cardiovascular Toxicity	In Vitro
Comparison of cytotoxicity of IQOS aerosols to smoke from Marlboro Red and 3R4F reference cigarettes	10.1016/j.tiv.2019.104652	Ind	Tox	2019	Pulmonary toxicity	In Vitro
Cytotoxic effects of heated tobacco products (HTP) on human bronchial epithelial cells	10.1136/tobaccocontrol-2018-054317	Ind	Tox	2018	Pulmonary toxicity	In Vitro
Effects of conventional and heated tobacco product smoking on discoloration of artificial denture teeth	10.1016/j.prosdent.2020.05.031	Ind	Tox	2021	Other Systemic Toxicity	In Vitro
Effects of Exposure to Tobacco Cigarette, Electronic Cigarette and Heated Tobacco Product on Adipocyte Survival	10.3390/toxics8010009	Ind	Tox	2020	Other Systemic Toxicity	In Vitro

and Differentiation In Vitro						
Effects of Fetal Exposure to Heat-Not-Burn Tobacco on Testicular Function in Male Offspring	10.1248/bpb.b20-00390	Ind	Tox	2020	Other Systemic Toxicity	In Vivo
Heat-Not-Burn cigarette induces oxidative stress response in primary rat alveolar epithelial cells	10.1371/journal.pone.0242789	Ind	Tox	2020	Pulmonary toxicity	In Vitro
Heat-not-burn tobacco (IQOS), oral fibroblasts and keratinocytes: cytotoxicity, morphological analysis, apoptosis and cellular cycle. An in vitro study	10.1111/jre.12888	Ind	Tox	2021	Other Systemic Toxicity	In Vitro
Heat-Not-Burn Tobacco Products: The Devil in Disguise or a Considerable Risk Reduction?	10.7895/ijadr.250+[@[Type of paper]]	Ind	Tox	2018	Biomarkers of Exposure	Risk assessment
Immunotoxic mechanisms of cigarette smoke and heat-not-burn tobacco vapor on Jurkat T cell functions	10.1016/j.envpol.2020.115863	Ind	Tox	2021	Other Systemic Toxicity	In Vitro
Role of diabetes in lung injury from acute exposure to electronic cigarette, heated tobacco product, and combustible cigarette aerosols in an animal model	10.1371/journal.pone.0255876	Ind	Tox	2021	Pulmonary toxicity	In Vivo
Toxic mechanisms of cigarette smoke and heat-not-burn tobacco vapor inhalation on rheumatoid arthritis	10.1016/j.scitotenv.2021.151097	Ind	Tox	2021	Other Systemic Toxicity	In Vivo/in vitro

Unburned Tobacco Cigarette Smoke Alters Rat Ultrastructural Lung Airways and DNA	10.1093/ntr/ntab108	Ind	Tox	2021	Pulmonary toxicity	In Vivo
Vascular endothelial function is impaired by aerosol from a single IQOS HeatStick to the same extent as by cigarette smoke	10.1136/tobaccocontrol-2018-054325	Ind	Tox	2018	Cardiovascular Toxicity	In Vivo
Different Effects of Cigarette Smoke, Heated Tobacco Product and E-Cigarette Vapour on Orbital Fibroblasts in Graves' Orbitopathy; a Study by Real Time Cell Electronic Sensing.	<a href="https://doi.org/10.3390/molecules27093001">https://doi.org/10.3390/molecules27093001</a>	IND	Tox	2022	Other Systemic Toxicity	In Vitro
A Newly Developed Aerosol Exposure Apparatus for Heated Tobacco Products for In Vivo Experiments Can Deliver Both Particles and Gas Phase With High Recovery and Depicts the Time-Dependent Variation in Nicotine Metabolites in Mouse Urine		Ind	Tox			
Comparable Impairment of Vascular Endothelial Function by a Wide Range of Electronic Nicotine Delivery Devices	<a href="https://doi.org/10.1093/ntr/ntac019">https://doi.org/10.1093/ntr/ntac019</a>	IND	Tox	2022	Cardiovascular Toxicity	In Vivo
Exposure to the heated tobacco product IQOS generates apoptosis-mediated pulmonary	<a href="https://doi.org/10.1152/ajplung.00215.2021">https://doi.org/10.1152/ajplung.00215.2021</a>	IND	Tox	2022	Pulmonary toxicity	In Vivo

emphysema in murine lungs						
Exposure to aerosol extract from heated tobacco products causes a drastic decrease of glutathione and protein carbonylation in human lung epithelial cells.	<a href="https://doi.org/10.1016/j.bbrc.2021.12.004">https://doi.org/10.1016/j.bbrc.2021.12.004</a>	IND	Tox	2021	Pulmonary toxicity	In Vitro
Heated Tobacco Products Impair Cell Viability, Osteoblastic Differentiation, and Bone Fracture-Healing		Ind	Tox	2021	Other Systemic Toxicity	In Vitro
Increased oxidative stress and effects on inflammatory cytokine secretion by heated tobacco products aerosol exposure to mice.	<a href="https://doi.org/10.1016/j.bbrc.2022.04.042">https://doi.org/10.1016/j.bbrc.2022.04.042</a>	IND	Tox	2022	Pulmonary toxicity	In Vivo
Chronic exposure to IQOS results in impaired pulmonary function and lung tissue damage in mice	<a href="https://doi.org/10.1016/j.toxlet.2022.11.022">https://doi.org/10.1016/j.toxlet.2022.11.022</a>	Ind	Tox	2023	Pulmonary toxicity	In Vivo
Exposure to Heated Tobacco Products Aerosol Causes Acute Stress Responses in the Lung of Mouse	<a href="https://doi.org/10.3390/antiox11122329">https://doi.org/10.3390/antiox11122329</a>	Ind	Tox	2022	Pulmonary toxicity	In Vivo
Acute effect of heat-not-burn versus standard cigarette smoking on arterial stiffness and wave reflections in young smokers	10.1177/2047487320918365	Ind	Health	2021	Cardiovascular Toxicity	Clinical
Acute Effects of a Heat-Not-Burn Tobacco Product on Pulmonary Function	10.3390/medicina56060292	Ind	Health	2020	Pulmonary toxicity	Clinical

Acute Effects of Heat-Not-Burn, Electronic Vaping, and Traditional Tobacco Combustion Cigarettes: The Sapienza University of Rome-Vascular Assessment of Proatherosclerotic Effects of Smoking (SUR-VAPES) 2 Randomized Trial	10.1161/jaha.118.010455	Ind	Health	2019	Cardiovascular Toxicity	Clinical
Acute effects of JUUL and IQOS in cigarette smokers	10.1136/tobaccocontrol-2019-055475	Ind	Health	2020	Biomarkers of Health Effects	Clinical
Acute eosinophilic pneumonia following heat-not-burn cigarette smoking	10.1002/rcr.2.190	Ind	Health	2016	Pulmonary toxicity	Case Study
Assessment of industry data on pulmonary and immunosuppressive effects of IQOS	10.1136/tobaccocontrol-2018-054296	Ind	Health	2018	Pulmonary toxicity	clinical/in vivo
Comparison of End Tidal Carbon Monoxide Levels between Conventional Cigarette, Electronic Cigarette and Heated Tobacco Product among Asiatic Smokers	10.1080/10826084.2020.1781180	Ind	Health	2020	Biomarkers of Exposure	Clinical
Comparison of IQOS (heated tobacco) and cigarette smoking on cardiac functions by two-dimensional speckle tracking echocardiography	10.1016/j.taap.2021.115575	Ind	Health	2021	Cardiovascular Toxicity	Clinical
Criminal mercury vapor poisoning using heated tobacco product	10.1007/s00414-018-1923-4	Ind	Health	2019		
Differential effects of heat-not-burn and	10.1038/s41598-021-91245-9	Ind	Health	2021	Cardiovascular Toxicity	Clinical



conventional cigarettes on coronary flow, myocardial and vascular function						
DNA methylation abnormalities and altered whole transcriptome profiles after switching from combustible tobacco smoking to heated tobacco products	10.1158/1055-9965.Epi-21-0444	Ind	Health	2021	Other Systemic Toxicity	Clinical
Estimating the Carcinogenic Potency of Second-Hand Smoke and Aerosol from Cigarettes and Heated Tobacco Products	10.3390/ijerph17228319	Ind	Health	2020	Biomarkers of Exposure	Clinical
Exhaled Carbon Monoxide Levels in Forty Resistant to Cessation Male Smokers after Six Months of Full Switch to Electronic Cigarettes (e-Cigs) or to A Tobacco Heating Systems (THS)	10.3390/ijerph16203916	Ind	Health	2019	Biomarkers of Exposure	Clinical
Health outcomes in COPD smokers using heated tobacco products: a 3-year follow-up	10.1007/s11739-021-02674-3	Ind	Health	2021	Pulmonary toxicity	Clinical
Heat-not-burn cigarettes induce fulminant acute eosinophilic pneumonia requiring extracorporeal membrane oxygenation	10.1016/j.rmcr.2018.12.002	Ind	Health	2019	Pulmonary toxicity	Case Study
Impact of exclusive e-cigarettes and heated tobacco products use on muco-ciliary clearance	10.1177/20406223211035267	Ind	Health	2021	Pulmonary toxicity	Clinical
IQOS(TM) vs. e-Cigarette vs. Tobacco	10.3390/ijerph15122902	Ind	Health	2018	Biomarkers of Exposure	Clinical

Cigarette: A Direct Comparison of Short-Term Effects after Overnight-Abstinence						
Modelling the impact of a new tobacco product: review of Philip Morris International's Population Health Impact Model as applied to the IQOS heated tobacco product	10.1136/tobaccocontrol-2018-054572	Ind	Health	2018		
PMI's own in vivo clinical data on biomarkers of potential harm in Americans show that IQOS is not detectably different from conventional cigarettes.	10.1136/tobaccocontrol-2018-054413	Ind	Health	2018	Pulmonary/cardiovascular toxicity	Clinical
Profiling the Acute Effects of Modified Risk Products: Evidence from the SUR-VAPES (Sapienza University of Rome-Vascular Assessment of Proatherosclerotic Effects of Smoking) Cluster Study	10.1007/s11883-020-0824-4	Ind	Health	2020	Cardiovascular Toxicity	Clinical
Subacute lung injury associated with heated tobacco products	10.18678/dtfd.896093	Ind	Health	2021	Biomarkers of Health Effects	Case Study
The impact of heated tobacco products on arterial stiffness	10.1177/1358863x20943292	Ind	Health	2020	Cardiovascular Toxicity	Clinical
JUUL™ing and Heating Lead to a Worsening of Arterial Stiffness	<a href="https://doi.org/10.3390/medicines9040028">https://doi.org/10.3390/medicines9040028</a>	IND	Health	2022	Cardiovascular Toxicity	Clinical
Assessing acute inhalation health risk caused by exposure to products created by	<a href="https://doi.org/10.21668/health.risk/2021.2.06.eng">https://doi.org/10.21668/health.risk/2021.2.06.eng</a>	IND	Health	2021	Biomarkers of Exposure	Risk assessment

nicotine-containing stuff consumption in enclosed spaces						
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