OXFORD
SOT | Society of Toxicology
www.toxsci.oxfordjournals.org

TOXICOLOGICAL SCIENCES, 151(2), 2016, 462–464

doi: 10.1093/toxsci/kfw062
Corrigendum

CORRIGENDUM

An 8-Month Systems Toxicology Inhalation/Cessation Study in Apoe$^{-/-}$ Mice to Investigate Cardiovascular and Respiratory Exposure Effects of a Candidate Modified Risk Tobacco Product, THS 2.2, Compared With Conventional Cigarettes

Blaine Phillips, Emilija Veljkovic, Stéphanie Boué, Walter K. Schlage, Gregory Vuillaume, Florian Martin, Bjoern Titz, Patrice Leroy, Ansgar Buettner, Ashraf Elamin, Alberto Oviedo, Maciej Cabanski, Héctor De León, Emmanuel Guedj, Thomas Schneider, Marja Talikka, Nikolai V. Ivanov, Patrick Vanscheeuwijck, Manuel C. Peitsch, and Julia Hoeng

doi: 10.1093/toxsci/kfv243

Toxicological Sciences 149(2), 411–432, 2016

Upon further review of Supplementary Table 1, the authors identified that some data were erroneously swapped when reporting. The corrected table is available online.

This error has no impact on the overall validity or conclusion of the study.

The authors regret this error.

Supplementary Table 1. Yields per cigarette of selected 3R4F mainstream smoke and THS aerosol constituents (HPHCs).

A. Normalized for nicotine levels, analysis from a THS2.2 batch used in this study (3R4F was measured in a previous study but is considered representative of the actual batches used during this study).

ISO parameters		THS2.2	3R4F
1. Carbon monoxide	mg/mg nicotine	0.437 ± 0.031	14.8 ± 0.715
2. Nicotine	mg/mg nicotine	1 ± 0.045	1 ± 0.0542
3. Tar	mg/mg nicotine	6.304 ± 1.214	14.3 ± 0.717
4. TPM	mg/mg nicotine	34.72 ± 1.396	22.2 ± 1.2
5. Water	mg/mg nicotine	27.41 ± 1.937	7.01 ± 0.673
Aliphatic dienes			
6. 1,3-Butadiene	μg/mg nicotine	0.298 ± 0.053	36.7 ± 3.6
7. Isoprene	μg/mg nicotine	2.483 ± 0.335	427 ± 36.4
Carbonyls			
8. Acetaldehyde	μg/mg nicotine	157.9 ± 15.78	719 ± 50.1
9. Acetone	μg/mg nicotine	29.35 ± 3.463	323 ± 11.9
10. Acrolein	μg/mg nicotine	8.165 ± 1.189	77 ± 5.51
11. Butyraldehyde	μg/mg nicotine	20.32 ± 2.024	41.7 ± 3.64
12. Crotonaldehyde	μg/mg nicotine	2.809 ± 0.333	40.5 ± 4.31
13. Formaldehyde	μg/mg nicotine	2.623 ± 0.271	28.3 ± 3.48
14. Methyl ethyl ketone	μg/mg nicotine	5.986 ± 0.91	91.9 ± 5.79
15. Propionaldehyde	μg/mg nicotine	11.75 ± 1.483	58.1 ± 2.68
Acid derivatives			
16. Acetamide	μg/mg nicotine	3.063 ± 0.283	7.17 ± 0.399
17. Acrylamide	μg/mg nicotine	1.918 ± 0.188	2.03 ± 0.157
18. Acrylonitrile	μg/mg nicotine	0.166 ± 0.013	14.4 ± 0.894
Epoxides			
19. Ethylene oxide	μg/mg nicotine	0.167 ± 0.011	12.9 ± 0.998
20. Propylene oxide	μg/mg nicotine	0.094 ± 0.008	0.723 ± 0.0234
Nitro compounds			
21. Nitrobenzene		N.D.	N.D.
Aromatic Amines			
22. 1-Aminonaphthalene	ng/mg nicotine	0.065 ± 0.007	9.95 ± 0.6
23. 2-Aminonaphthalene	ng/mg nicotine	3/4 < 0.024	5.11 ± 0.186
24. 3-Aminobiphenyl	ng/mg nicotine	0.043 ± 0.005	1.64 ± 0.213
25. 4-Aminobiphenyl	ng/mg nicotine	4/4 < 0.032	1.31 ± 0.115
26. o-Toluidine	ng/mg nicotine	0.962 ± 0.076	43.5 ± 1.45
27. Benzidine	ng/mg nicotine	4/4 < 7E-4	N.D.
N-Heterocyclic aromatics			
28. Pyridine	μg/mg nicotine	6.343 ± 0.283	18 ± 0.833
29. Quinoline	μg/mg nicotine	0.016 ± 0.001	0.273 ± 0.0276
Halogen compounds			
30. Vinyl chloride	ng/mg nicotine	4/4 < 2.477	50.2 ± 2.75
Inorganic compounds			
31. Ammonia	μg/mg nicotine	10.18 ± 0.611	19.4 ± 0.847
32. Hydrogen cyanide	μg/mg nicotine	2.905 ± 0.201	215 ± 17.2
33. Nitric oxide	μg/mg nicotine	11.37 ± 0.521	218 ± 10.3
34. Nitrogen oxides	μg/mg nicotine	11.48 ± 0.516	240 ± 12.3
Monocyclic aromatics			
35. Benzene	μg/mg nicotine	0.538 ± 0.037	46.8 ± 1.7
36. Styrene	μg/mg nicotine	0.578 ± 0.048	11.9 ± 0.497
37. Toluene	μg/mg nicotine	2.172 ± 0.231	97.8 ± 3.8
N-nitrosamines			
38. N-Nitrosoanabasine (NAB)	ng/mg nicotine	4/4 < 2.173	18 ± 1.24
39. N-Nitrosoanatabine (NAT)	ng/mg nicotine	11.67 ± 1.224	173 ± 10.1
40. 4-(N-nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)	ng/mg nicotine	4.631 ± 0.387	117 ± 5.56
41. N-Nitrosonornicotine (NNN)	ng/mg nicotine	10.37 ± 1.039	155 ± 4.31
Phenols			
42. Catechol	μg/mg nicotine	15.53 ± 1.698	43.8 ± 2.17
43. m+p-cresol	μg/mg nicotine	0.123 ± 0.02	6.04 ± 0.448
44. o-cresol	μg/mg nicotine	0.102 ± 0.014	2.08 ± 0.18
45. Hydroquinone	μg/mg nicotine	6.614 ± 0.859	40.2 ± 1.85
46. Phenol	μg/mg nicotine	1.617 ± 0.269	6.59 ± 0.497
47. Resorcinol	μg/mg nicotine	0.049 ± 0.004	0.894 ± 0.0364

(continued)

A. continued

ISO parameters		THS2.2	3R4F
PAHs			
48. Benzo[a]pyrene	ng/mg nicotine	3/4 < 0.696	4.66 ± 1.87
49. Benz[a]anthracene	ng/mg nicotine	1.078 ± 0.051	9.21 ± 3.19
50. Dibenz[a,h]anthracene	ng/mg nicotine	4/4 < 0.07	3/8 < 0
51. Pyrene	ng/mg nicotine	4.085 ± 0.24	25.5 ± 15.2
Metals/Elements			
52. Arsenic	ng/mg nicotine	3/3 < 0.787	3.32 ± 0.209
53. Cadmium	ng/mg nicotine	0.371 ± 0.008	63.7 ± 3.28
54. Chromium	ng/mg nicotine	3/3 < 0.118	4/4 < 0.257
55. Lead	ng/mg nicotine	3/3 < 2.332	14.8 ± 0.773
56. Mercury	ng/mg nicotine	1.024 ± 0.105	1.86 ± 0.0981
57. Nickel	ng/mg nicotine	2/3 < 0.118	4/4 < 0.257
58. Selenium	ng/mg nicotine	3/3 < 0.383	0.687 ± 0.126

B. Total weights per chemical classes, manufacturer's specifications.

Chemical class	Unit weight per stick	Total weight		% reduction
		3R4F	THS2.2	
Carbon monoxide	mg	32.8	0.531	98.4%
Carbonyls	µg	2970.7	328.45	88.9%
Nitrogen oxides	µg	1028	34.1	96.7%
Aliphatic dienes	µg	861.8	2.644	99.7%
Inorganic compounds	µg	532.3	19.01	96.4%
Monocyclic aromatic HC	µg	310.1	3.847	98.8%
Phenols	µg	206.62	25.771	87.5%
Acid derivatives	µg	50.63	6.008	88.1%
N-Heterocyclic aromatics	µg	36.613	7.552	79.4%
Epoxides	µg	30.72	0.349	98.9%
TSNA	ng	926.7	47.52*	94.9%
Elements	ng	214.03	7.65*	96.4%
PAHs	ng	131.2	7.55*	94.2%
Aromatic amines	ng	124.33	1.466*	98.8%
Halogen compounds	ng	96.7	3.54*	96.3%
Nitro compounds	ng	0.499	0.09	82.0%

*Measurement replaced by lower limit of quantification.

Remarks: Smoke/aerosol generation according to Health Canada regimen (Burns *et al.*, 2008). These numbers are provided to illustrate the reduction in HPHCs per chemical class and were derived from later product batches.