

ERRATUM

HÖFER, I., R. NIL AND K. BÄTTIG. *Nicotine yield as determinant of smoke exposure indicators and puffing behavior*. PHARMACOL BIOCHEM BEHAV **40**(1) 139-149, 1991.—

The data in Table 1 of the above-referenced article were not properly represented in the original publication. In addition, the correlation of taste with yield, as indicated in Table 5, is not significant, thus the † in the tenth column (correlation with yield) should be omitted.

For the reader's convenience, both tables appear in their correct form on the following pages.

We regret any inconvenience caused by these errors.

TABLE 1
NICOTINE YIELD AND CONCENTRATION OF SMOKE CONSTITUENTS IN BLOOD/BREATH (CROSS-SECTIONAL STUDIES):
METHOD OF INVESTIGATION AND SUMMARY OF RESULTS

Study	Sample	Cig. Yield	Design
Bättig (2)	67 M 43 F, unsuccessful quitters	0.1-1.7	ad lib, 2 × breath-cig-breath (holder)
Benowitz (3)	I: 149 M+F II: 123 M+F smoking treatment	0.1-1.9	I: ad lib, 1-6.30 p.m.: blood II: 8-12 h depriv., 8 a.m.: blood
Benowitz (5)	7 M+5 F, hospit. for 9 days	0.8-1.8 filter+plain	pre cig. blood every 2/4 h over 24 h, stand. smoking
Bridges (8)	108 M	0.28-1.10	ad lib, 8 a.m.: cig. +5 min-blood
Burling (9)	23 M+37 F, stop smoking program	T: 10.5 ± 5.6	ad lib, 5-8 p.m.: breath
Ebert (16)	43 M+33 F, stop smoking program	0.1-1.5	ad lib, afternoon: cig+<5min-blood, breath
Folsom (20)	2561 M+F, coronary risk study	T: <5->20	blood
Gori (21)	41 M 52 F	0.05-1.12	5 h stand.smoking, 12 a.m.: blood, breath
Gori (22)	397 M+468 F	0.1-1.5	ad lib, midafternoon: cig+10min-blood, breath
Hatsukami (23)	5 M+ 5 F, hospit. for 7 days	0.60-1.15	ad lib, afternoon 4 × blood-cig-blood (holder)
Herning (24)	8 M+3 F	1.03 ± 0.18 exp.: 0.4/2.5	2 × 10 h depr., 8 a.m.: 2 × blood-cig-blood (1. usual, 2. exp., holder)
Hill (25)	450 M +F	mean >1.0	30-90 min after last cig.: blood
Hill (26)	7 M+2 F	0.09-1.33	10 × ad lib, 9 a.m.: blood-cig
Jaffe (28)	72 M 128 F	0.1->1.0	15-60 min after last cig. 12 a.m.-4 p.m.: breath
Maron (32)	330 M+383 F	<.2->1.0	breath, blood
Nil (36)	69 M+48 F	0.80 ± 0.27	breath-cig-breath (holder)
Petitti (38)	7706, Medical care program	<1.0	questionnaire
Rawbone (39)	268 representative	LT: <10; MT: <17-22	butts over 24 h
Rickert (41)	<240 (51-140)	0.30-1.40	blood, saliva, breath
Russell (42)	124 M 206 F	0.6-2.0 filter+plain	afternoon: cig-blood
Russell (43)	10	1.2-1.6 exp: 0.14/3.2	4 × 10-11.30 a.m.: blood-5 h smoking-blood, (2× usual, 2× exp.)
Stepney (46)	78 M+F	L: 0.86 ± 0.12 M: 1.52 ± 0.12	2-3 × morning (1.cig): breath-cig-breath
Sutton (47)	55	0.5-1.5	afternoon,evening: cig-blood

Entries are: Study: first author and reference; Sample: size, sex (Male/Female), special characteristics; cigarette yield: range or mean (±SD) of nicotine or tar (T) yield, in case of classification for Low/Medium yield; Design: repetitions (on different days), presampling requirements (deprivation, ad lib), time of sampling, repetitions within a session, smoking conditions, sampled substance.

TABLE 1 (continued)

CPD	Results		Nicotine		Cotinine	Boost		Remarks
	CO		Pre	Post		CO	Nicotine	
	Pre	Post	Pre	Post				
.06	-.03	—	—	—	—	.10/.17	—	for 1./2. cig.
.03	-.02	—	—	—	—	.02/.17	—	topography, TV: -.17/-.36 (M/F)
—	—	—	—	—	.15	—	—	
—	—	—	—	—	.06	—	—	
—	-.28	—	.07	—	—	—	—	maximum over 24 h
—	—	.11	—	.17	.26	—	—	topography, TV: r = -.41
—	.30	—	—	—	—	—	—	with CO yield
-.14	—	.03	—	.25	—	—	—	
.03	—	—	—	—	—	—	—	with tar yield, SCN: r = .12, adj. for log(CPD), sex
—	<.16	<.16	<.16	<.16	—	—	—	5 h smoking
—	<.16	<.16	<.16	<.16	—	—	—	
n.s.	—	n.s.	—	.37	.23	—	—	
—	—	—	—	—	—	—	-.26	individual means
—	—	—	—	—	—	—	.52	mixed between/within, topography
—	.38	—	.41	—	.45	—	—	with tar yield
—	.37	—	.45	—	.45	—	—	
-.13	.26	—	—	—	.33	n.s.	—	mixed between/within
					(.68*)			
—	.03	—	—	—	—	—	—	
—	.03	—	—	—	—	—	—	
p<0.01 neg.	n.s.	—	—	—	—	—	—	linear trend (ANOVA), SCN: n.s.
n.s.	n.s.	—	—	—	—	—	—	topography, TV: n.s., -.31 (M/F)
p<0.05	—	—	—	—	—	—	—	contingency analysis
n.s.	—	—	—	—	—	—	—	
—	.10 ⁺	—	—	—	.08 ^a	—	—	+ with CO yield SCN: .15/.04 (blood/sal.) with HCN yield
—	.18 ^a	—	—	—	—	—	—	^a all r's adj. for CPD
—	—	-.21	—	.17	—	—	—	
—	—	.05	—	.26	—	—	—	
—	—	—	—	-.04	—	—	—	mixed between/with, 5 h smoking
				(.35*)				
—	.14*	—	—	—	—	.33*	—	individual means
—	—	-.31	—	.10	—	—	—	topography, TV: .03

Results: correlation of yield and cigarettes per day, CO, nicotine or cotinine concentration (independent of or presmoking, postsmoking) and pre- to postsmoking boosts in CO or nicotine; Remarks: special characteristics of yield measure, smoke absorption measure, or statistics; additional smoke absorption measures (incomplete); TV: total puff volume; SCN: thiocyanate.

*Recalculations from reported data or statistics (i.h.).

TABLE 5
SUMMARY OF ANOVA RESULTS, AND CORRELATIONS WITH NICOTINE YIELD

Variable	S	Y	S×Y	ANOVA					Correlation With Yield	
				C	Y×C	P	Y×P	C×P	r	r ²
a. Presmoking Measures										
No. cig. on exp. day	2.13	1.07	4.00†	0.67	0.48				M 15	2
									F -06	<1
CO (ppm)	0.22	2.57	0.99	1.37	2.29	76.16*	2.75‡	0.00	21‡	4
Nicotine (ng/ml)	0.01	8.17*	2.31	0.25	1.71	5.73‡	3.78‡	3.54	36*	13
Cotinine (ng/ml)	0.44	5.44*	1.57	1.02	1.88	28.10*	0.51	0.07	32*	10
b. Pre- to Postsmoking Boosts										
CO (ppm)	4.33‡	9.12*	0.67	12.95*	0.82	214.12*	3.99†	12.19†	22†/33**	5/11
Nicotine (ng/ml)	19.09*	27.15*	3.72‡	3.28	3.33‡	96.88*	5.42*	0.02	M 59*/57**	34/32
									F 33†/47**	11/22
Cotinine (ng/ml)	0.07	2.53	1.17	0.00	0.36	6.45‡	0.47	0.17	04	<1
Butt length (mm)	n 3.83	4.03†	0.27	1.14	3.10‡				n 28*	8
	f ¹ 10.59*	20.76*	2.09	13.16*	2.91‡				f 51*	26
Filter nicotine (mg)	n 3.13	1.76	0.38	17.66*	1.66				n -22†	5
	f ² 18.71*	0.51	0.37	0.08	2.35				f -13	2
c. Heart Rate										
Presmoking (bpm)	0.02	2.25	5.04†	1.50	1.03	9.60†	0.51	0.17	M -27‡	7
									F 12	1
Boost (bpm)	0.00	2.66	1.11	0.21	1.59	0.42	0.36	0.41	12	1
d. Subjective Ratings										
Smoking need	1.01	0.30	0.48	4.48‡	0.88	3.48	3.20‡	2.42	-06	<1
Strength	0.98	5.86*	1.07	49.06*	1.30	141.84*	0.36	0.71	25†	6
Taste	0.16	0.65	0.34	53.38*	3.73‡	130.25*	2.56	33.25*	-07	2
Satisfaction	0.05	1.57	0.47	41.34*	2.91‡	159.03*	1.08	49.86*	-12	2
Activation	0.01	0.89	2.19	0.37	0.05	0.01	0.12	1.21	-04	<1
Calming	0.99	1.43	1.06	10.25†	0.13	83.67*	3.11‡	4.42‡	-13	2
Nervousness	0.69	2.08	0.32	0.25	2.83‡	107.72*	1.75	2.65	11	2
Dizziness	0.07	3.68‡	0.94	0.08	0.79	66.34*	1.14	1.42	21‡	4
e. Puffing Behavior										
No. Puffs (n only)	3.30	4.13†	2.68‡	26.38*	4.83†				-15/-31 ^b	2/10
Puff duration (s)	3.85	0.24	0.81	3.70	1.30	108.11*	4.81†	9.39†	13/-07 ^a	2/1
Tot. puff duration (s)	2.74	0.84	0.99	0.01	3.89‡	883.64*	0.39	42.50*	-10	1
Interval (s)	0.95	1.65	4.78†	80.65*	0.12	81.38*	2.81‡	1.91	M -04	<1
									F 19	4
Volume (ml)	16.32*	6.50*	0.41			16.58*	5.91*		-24†/-42 ^a	6/18
Tot. puff volume (ml)	14.83*	13.74*	0.56			583.14*	4.13*		-43*/-43 ^a	18/18
Mean flow (ml/s)	6.75†	8.69*	1.69			90.11*	2.00		-40*	16
Peak flow (ml/s)	7.64†	13.16*	2.55			38.22*	2.17		-47*	22
Peak pressure (cmH ₂ O)	0.18	3.17‡	3.08‡			2.00	0.78		02	<1
Latency (s)	1.98	3.84‡	2.61			43.79*	1.83		24†	6

Entries are: F-values and significance level; correlations with nicotine yield (decimal point omitted), averaged over experimental conditions if not indicated otherwise, and explained variance (r²).

¹Mean (butt 1, butt 10); separate ANOVAs for natural and forced puffing; ²10 * mean (butt 1, butt 10); separate ANOVAs for natural and forced puffing; ^aseparate for natural/forced puffing; ^bseparate for lip/holder smoking.

Abbreviations: S: Sex (Male/Female); Y: Yield class (Ultra/Low/Medium/High); C: Contact condition (lip/holder); P: Puffing condition (natural/forced).

Significance levels: *p≤0.001; †p≤0.010; ‡p≤0.05.