

Supplementary Material

Table 1 | Descriptive hand ratio data of the entire sample and split by gender

variables	Entire sample $N_L = 208, N_R = 212$						Females $n_L = 137, n_R = 138$		Males $n_L = 71, n_R = 74$	
	M(all)	SD(all)	SEM	Min	Max	Skew	M(f)	SD(f)	M(m)	SD(m)
LEFT 2D:4D ratio	0.98	0.03	0.00	0.89	1.07	0.05	0.98	0.03	0.97	0.03
RIGHT 2D:4D ratio	0.97	0.03	0.00	0.90	1.05	0.04	0.98	0.03	0.97	0.03

Note. M (Mean), SD (Standard Deviation), SEM (Standard Error of the Mean)

Table 2 | Age correlated with both hand ratios and Internet addiction variables for the entire sample and both genders using Spearman's rho

	2D:4D LEFT hands			2D:4D RIGHT hands		
	Entire sample $N_L = 208$	Females $n_L = 137$	Males $n_L = 71$	Entire sample $N_R = 212$	Females $n_R = 138$	Males $n_R = 74$
age	23.27 ±7.50	22.61 ±6.80	24.55 ±8.61	23.45 ±7.85	22.63 ±6.77	24.99 ±9.40
2D:4D hands ratios	-0.03	0.06	-0.15	0.05	0.19*	-0.10
s-IAT	-0.13	-0.14	-0.18	-0.10	-0.11	-0.15
s-IAT _{LoCTM}	-0.19**	-0.19*	-0.24*	-0.17*	-0.17	-0.23*^d
s-IAT _{CSP}	0.02	0.02	-0.04	0.04	0.02	0.00
^a A1 s-IAT	-0.06	-0.17*	-0.16	-0.06	-0.17*	-0.15
^a A1 s-IAT _{LoCTM}	-0.07	-0.18*	-0.13	-0.05	-0.16	-0.11
^a A1 s-IAT _{CSP}	-0.04	-0.13	-0.15	-0.05	-0.13	-0.16
A2 s-IAT	0.10	0.05	0.08	0.10	0.05	0.07
^c A2 s-IAT _{LoCTM}	0.05	^c n.v.	0.03	0.05	^c n.v.	0.03
A2 s-IAT _{CSP}	0.06	0.05	0.01	0.05	0.05	0.00
^b A3 s-IAT	0.01	-0.07	0.17	0.01	-0.07	0.17
^b A3 s-IAT _{LoCTM}	0.04	-0.01	0.19	0.04	-0.02	0.19
A3 s-IAT _{CSP}	-0.01	-0.10	0.18	0.00	-0.09	0.16
A4 s-IAT	-0.01	-0.16 ($p = 0.06$)	-0.10	0.01	-0.17*	-0.04
A4 s-IAT _{LoCTM}	0.07	-0.04	-0.06	0.09	-0.05	-0.01
A4 s-IAT _{CSP}	-0.05	-0.19*	-0.12	-0.03	-0.20*	-0.05
A5 s-IAT	-0.19**	-0.21*	-0.13	-0.18**	-0.20*	-0.12
A5 s-IAT _{LoCTM}	-0.20**	-0.22*	-0.18	-0.19**	-0.21*	-0.16
A5 s-IAT _{CSP}	-0.12	-0.16	-0.01	-0.13	-0.15	-0.04

Note. Correlation (2-tailed) is significant at the 0.01 level (**), at the 0.05 level (*); sub-facets of s-IAT: LoCTM (loss of control/time management), CSP (craving/social problems), s-IAT A1: online gaming, s-IAT A2: online gambling, s-IAT A3: online shopping, s-IAT A4: for online pornography, s-IAT A5: online communication.

^a N is reduced by 1 (one participant missed to enter their 4 values for A1 online gaming): for LEFT hands $N_L = 207, N(f)_L = 136$; for RIGHT hands $N_R = 211, N(f)_R = 137$

^b N is reduced by 1 (one participant missed to enter the 3rd item of the s-IAT A3 question set: online shopping, A3 s-IAT_{CSP} remains unaffected): for LEFT hands $N_L = 207, N(f)_L = 136$; for RIGHT hands $N_R = 211, N(f)_R = 137$

^call female participants chose the lowest value: $M = 2, SD = 0$

^d $p = 0.05$

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Table 3 | Spearman's ρ of age correlated with each item of the s-IAT and the five scales (A1-A5) for the entire sample and both genders

s-IAT item no.	1	2	3	4	5	6	7	8	9	10	11	12
All ($N = 217$)	-0.10	-0.13	-0.12	0.09	0.04	-0.06	-0.05	-0.12	-0.18**	0.02	0.08	0.03
Female ($n = 140$)	-0.15	-0.16	-0.06	0.10	-0.02	-0.05	-0.08	-0.18*	-0.17*	0.02	0.04	-0.01
Male ($n = 77$)	-0.02	-0.14	-0.30**	-0.01	0.07	-0.06	-0.05	-0.09	-0.19	0.00	0.10	-0.02
Scales	A1-1	A1-2	A1-3	A1-4	A2-1	A2-2	A2-3	A2-4	A3-1	A3-2	A3-3	A3-4
All ($N = 217$)	^a -0.03	^a -0.02	^a -0.01	^a -0.04	0.05	0.07	0.08	0.02	0.03	0.02	0.10	-0.01
Female ($n = 140$)	^a -0.15	^a -0.09	^a -0.008	^a -0.06	^c n.v.	0.05	^c n.v.	^c n.v.	-0.04	-0.08	^b 0.03	-0.09
Male ($n = 77$)	-0.10	-0.12	-0.07	-0.17	0.02	0.03	0.10	0.00	0.16	0.21	0.25*	0.14
Scales	A4-1	A4-2	A4-3	A4-4	A5-1	A5-2	A5-3	A5-4				
All ($N = 217$)	0.10	-0.02	0.06	0.06	-0.16*	-0.17**	-0.18**	0.00				
Female ($n = 140$)	-0.03	-0.19*	0.01	0.01	-0.17*	-0.22**	-0.22**	-0.01				
Male ($n = 77$)	0.01	-0.05	-0.05	0.02	-0.11	-0.06	-0.11	0.06				

Note. Correlation (2-tailed) is significant at the 0.01 level (**), at the 0.05 level (*); greyish fields account for the sub facet LoCTM, white background for the sub facet CSP, ^a N is reduced by 1 (one participant missed to enter their 4 values for A1 online gaming), ^b N is reduced by 1 (one participant missed to enter the 3rd item of the s-IAT A3 question set: online shopping), ^call female participants chose the lowest value: $M = 2$, $SD = 0$

Table 4 | Spearman's ρ s between all IUD variables (s-IAT and scales A1 - A5) for the entire sample and both genders

IUD-VAR	Entire sample ($N = 217$, ^{a,b} $N = 216$)									
	s-IAT	^a A1 s-IAT	A2 s-IAT	^b A3 s-IAT	A4 s-IAT					
^a A1 s-IAT	0.30**									
A2 s-IAT	-0.01	0.17*								
^b A3 s-IAT	0.19**	0.11	-0.03							
A4 s-IAT	0.31**	0.33**	0.17*	0.13 ^c						
A5 s-IAT	0.40**	0.04	0.01	0.33**	0.11					
IUD-VAR	Females ($n = 140$, ^{a,b} $n = 139$)					Males ($n = 77$)				
	s-IAT	^a A1 s-IAT	A2 s-IAT	^b A3 s-IAT	A4 s-IAT	s-IAT	A1 s-IAT	A2 s-IAT	A3 s-IAT	A4 s-IAT
^a A1 s-IAT	0.15					0.52**				
A2 s-IAT	-0.02	0.18*				-0.07	0.03			
^b A3 s-IAT	0.28**	0.22**	-0.03			0.03	0.07	0.03		
A4 s-IAT	0.28**	0.10	0.10	0.21*		0.39**	0.17	-0.08	0.27*	
A5 s-IAT	0.48**	0.04	-0.08	0.21*	0.19*	0.28*	0.20	0.12	0.49**	0.40**

Note. IUD-VAR (Internet use disorder variable), Correlation (2-tailed) is significant at the 0.01 level (**), at the 0.05 level (*); s-IAT A1: online gaming, s-IAT A2: online gambling, s-IAT A3: online shopping, s-IAT A4: for online pornography, s-IAT A5: online communication.

^a N is reduced by 1 (one participant missed to enter their 4 values for A1 online gaming)

^b N is reduced by 1 (one participant missed to enter the 3rd item of the A3 s-IAT question set)

^c $p = 0.05$

Table 5 | Partial correlation coefficients corrected by age between all IUD variables for the entire sample and both genders

		Entire sample (<i>df</i> = 212)				
IUD-VAR	s-IAT	^a A1 s-IAT	A2 s-IAT	^b A3 s-IAT	A4 s-IAT	A5 s-IAT
^a A1 s-IAT	0.39**					
A2 s-IAT	0.00	0.17*				
^b A3 s-IAT	0.34**	0.19**	-0.03			
A4 s-IAT	0.39**	0.41**	0.07	0.20**		
A5 s-IAT	0.40**	0.04	0.11	0.34**	0.11	

		Females (<i>df</i> = 135)				Males (<i>df</i> = 74)				
IUD-VAR	s-IAT	^a A1 s-IAT	A2 s-IAT	^b A3 s-IAT	A4 s-IAT	s-IAT	A1 s-IAT	A2 s-IAT	A3 s-IAT	A4 s-IAT
^a A1 s-IAT	0.16					0.57**				
A2 s-IAT	-0.02	0.10				-0.04	0.07			
^b A3 s-IAT	0.34**	0.32**	-0.05			0.39**	0.24*	0.01		
A4 s-IAT	0.28**	0.02	0.19*	0.13		0.53**	0.30**	-0.13	0.51**	
A5 s-IAT	0.50**	0.07	-0.07	0.25**	0.21*	0.29*	0.16	0.30**	0.51**	0.27*

Note. IUD-VAR (Internet use disorder variable), Correlation (2-tailed) is significant at the 0.01 level (**), at the 0.05 level (*);s-IAT A1: online gaming, s-IAT A2: online gambling, s-IAT A3: online shopping, s-IAT A4: for online pornography, s-IAT A5: online communication.

^aN is reduced by 1 (one participant missed to enter their 4 values for A1 online gaming)

^bN is reduced by 1 (one participant missed to enter the 3rd item of the A3 s-IAT question set)

A test for differences of finger ratios regarding the s-IAT cut-off value (30) stated in Pawlikowski et al. (2013) between both problematic (> 30) and unproblematic (≤ 30) Internet user groups. T-tests between the hands in the entire sample and both genders, respectively, did not reveal any differences (Table 6).

Table 6 | Differences of hand ratios between problematic and ordinary Internet user groups

2D:4D ratios	Problematic Internet use: s-IAT > 30		Normal Internet use: s-IAT ≤ 30		T-test	
	<i>M</i>	<i>SD</i>	<i>M</i>	<i>SD</i>	<i>T-score</i>	<i>p</i>
Left hands: <i>N_L</i> = 208, <i>n</i> (> 30) = 36, <i>n</i> (≤ 30) = 172	0.97	0.03	0.98	0.03	-0.28	.078
Females: <i>n_L</i> = 137, <i>n</i> (> 30) = 23, <i>n</i> (≤ 30) = 114	0.97	0.03	0.98	0.03	-0.62	0.54
Males: <i>n_L</i> = 71, <i>n</i> (> 30) = 13, <i>n</i> (≤ 30) = 58	0.98	0.03	0.97	0.03	0.43	0.67
Right hands: <i>N_R</i> = 212, <i>n</i> (> 30) = 35, <i>n</i> (≤ 30) = 177	0.97	0.04	0.97	0.03	-1.26	0.21
Females: <i>n</i> = 138, <i>n</i> (> 30) = 23, <i>n</i> (≤ 30) = 115	0.97	0.04	0.98	0.03	-0.56	0.58
Males: <i>n</i> = 74, <i>n</i> (> 30) = 12, <i>n</i> (≤ 30) = 62	0.95	0.03	0.97	0.03	-1.49	0.14