

Supplementary material

Table S1 - Prevalence of cyberbullying victimization (absolute and relative frequencies) by age categories, gender, and Region (HBSC 2018 - Italy).

Cyberbullying victimization	11y.o. Boys		11y.o. Girls		13y.o. Boys		13y.o. Girls		15y.o. Boys		15y.o. Girls		All ages and genders	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Piedmont	33	6.41	49	10.32	29	5.21	52	10.34	33	6.41	27	6.19	223	7.43
Aosta Valley	35	11.08	29	9.18	18	6.77	31	10.54	13	6.81	13	7.83	139	8.97
Lombardy	54	9.75	66	12.41	26	4.32	60	10.64	32	6.31	43	6.85	281	8.3
Veneto	85	8.44	99	9.78	72	7.06	113	11.04	49	5.75	62	7.98	480	8.43
Friuli Venezia Giulia	29	5.7	52	10.28	32	6	60	10.75	30	5.91	40	7.84	243	7.78
Liguria	47	9.61	50	10.16	36	7.26	50	12.35	24	5.18	42	10.05	249	9.01
Emilia Romagna	53	10.08	69	13.61	38	7.41	55	10.04	21	4.77	53	9.09	289	9.27
Tuscany	41	8.25	60	11.61	27	5.08	60	11.21	34	6.67	34	7.33	256	8.38
Umbria	17	8.9	24	13.33	17	8.06	30	15.15	9	4.11	25	9.09	122	9.58
Marche	42	7.87	52	10.81	35	6.36	44	8.82	29	6.14	50	9.16	252	8.18
Latium	41	8.06	51	10.39	25	5.2	50	10.18	27	5.01	36	8.39	230	7.82
Abruzzo	37	7.87	60	13.22	35	7.45	50	12.08	28	5.98	45	8.41	255	9.07
Molise	33	8.46	48	12.63	37	7.43	47	11.22	24	6.32	32	8.31	221	9.01
Campania	35	7.32	41	10.1	39	8.11	53	11.21	33	7.07	41	8.7	242	8.72
Apulia	49	10.38	57	11.95	44	8.07	54	10.74	30	5.86	33	6.09	267	8.75
Basilicata	24	8.3	26	10.2	12	4.14	39	11.96	13	4.73	13	6.4	127	7.75
Calabria	49	9.82	44	10.02	45	8.41	60	11.32	34	7.11	32	6.12	264	8.79
Sicily	46	10.24	43	10.12	38	7.68	56	11.59	36	6.57	46	10.09	265	9.28
Sardinia	24	9.38	32	11.47	23	6.63	27	8.82	13	7.6	10	5.52	129	8.38
Bolzano	25	6.79	28	7.37	25	6.2	35	8.31	15	4.79	21	5.71	149	6.61
Trento	43	9.03	22	4.77	38	7.16	52	10.12	18	3.71	41	7.74	214	7.14
Total	842	8.6	1002	10.59	691	6.67	1078	10.77	545	5.85	739	7.84	4897	8.39

Table S2 - Prevalence of cyberbullying perpetration (absolute and relative frequencies) by age categories, gender, and Region (HBSC 2018 - Italy).

Cyberbullying perpetration	11y.o. Boys		11y.o. Girls		13y.o. Boys		13y.o. Girls		15y.o. Boys		15y.o. Girls		All ages and genders	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Piedmont	33	6.43	27	5.70	31	5.60	40	7.95	41	7.95	21	4.83	193	6.44
Aosta Valley	22	7.01	13	4.13	18	6.77	19	6.46	10	5.18	9	5.42	91	5.88
Lombardy	40	7.23	38	7.16	37	6.13	39	6.88	53	10.5	29	4.63	236	6.97
Veneto	71	7.08	64	6.33	76	7.47	76	7.43	89	10.48	52	6.66	428	7.53
Friuli Venezia Giulia	19	3.73	27	5.35	30	5.63	40	7.14	42	8.33	20	3.91	178	5.70
Liguria	31	6.35	37	7.52	37	7.49	31	7.62	28	6.06	33	7.89	197	7.14
Emilia Romagna	27	5.14	27	5.33	38	7.41	38	6.91	25	5.69	41	7.06	196	6.29
Tuscany	33	6.64	30	5.80	40	7.48	37	6.93	45	8.81	36	7.74	221	7.22
Umbria	10	5.24	9	5.00	11	5.19	14	7.07	17	7.73	32	11.64	93	7.29
Marche	35	6.54	26	5.42	43	7.82	35	7.04	38	8.07	34	6.24	211	6.86
Latium	31	6.08	32	6.50	25	5.19	29	5.92	58	10.76	41	9.53	216	7.34
Abruzzo	37	7.81	33	7.30	35	7.38	26	6.28	37	7.91	36	6.72	204	7.24
Molise	24	6.19	21	5.50	42	8.42	31	7.40	29	7.61	24	6.23	171	6.97
Campania	31	6.49	15	3.69	38	7.92	48	10.19	37	7.91	31	6.60	200	7.21
Apulia	38	8.07	33	6.89	44	8.04	44	8.75	38	7.42	39	7.21	236	7.73
Basilicata	19	6.53	13	5.14	16	5.48	30	9.26	22	7.97	7	3.45	107	6.53
Calabria	40	8.05	21	4.81	40	7.49	43	8.11	46	9.68	41	7.81	231	7.71
Sicily	32	7.13	18	4.22	34	6.84	32	6.64	60	10.95	34	7.39	210	7.33
Sardinia	23	9.02	21	7.53	29	8.38	23	7.52	16	9.36	11	6.08	123	8.00
Bolzano	18	4.88	12	3.15	29	7.20	31	7.31	17	5.45	11	2.98	118	5.23
Trento	39	8.28	21	4.58	46	8.70	37	7.21	26	5.37	37	6.98	206	6.90
Total	653	6.68	538	5.69	739	7.13	743	7.42	774	8.32	619	6.56	4066	6.97

Table S3 - Prevalence of Problematic Social Media Use (PSMU), absolute and relative frequencies by age categories, gender, and Region (HBSC 2018 - Italy).

Cyberbullying perpetration	11y.o. Boys		11y.o. Girls		13y.o. Boys		13y.o. Girls		15y.o. Boys		15y.o. Girls		All ages and genders	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Piedmont	36	7.76	36	8.09	34	6.37	65	13.18	20	3.98	39	9.11	230	8.02
Aosta Valley	13	4.55	15	5.08	15	5.86	31	10.76	9	4.89	14	8.70	97	6.6
Lombardy	50	9.94	49	10.04	48	8.39	83	14.82	34	6.94	62	10.16	326	10.11
Veneto	71	8.53	70	7.78	78	8.26	119	12.03	51	6.30	80	10.51	469	8.96
Friuli Venezia Giulia	34	7.82	25	5.56	20	3.94	52	9.61	23	4.73	41	8.17	195	6.68
Liguria	33	7.37	36	7.71	43	8.96	48	12.03	27	6.07	43	10.67	230	8.71
Emilia Romagna	26	5.44	34	7.16	41	8.17	57	10.59	26	6.15	65	11.42	249	8.34
Tuscany	25	5.43	35	7.22	23	4.41	63	11.98	24	4.88	44	9.67	214	7.28
Umbria	12	6.86	10	5.71	19	9.22	27	13.78	16	7.51	20	7.52	104	8.45
Marche	46	9.33	50	11.21	24	4.49	61	12.58	22	4.78	47	8.74	250	8.46
Latium	34	7.00	35	7.49	28	6.14	56	11.69	23	4.42	53	12.86	229	8.12
Abruzzo	42	9.46	37	8.56	31	6.71	62	15.27	21	4.58	56	10.65	249	9.12
Molise	35	9.36	39	10.46	35	7.1	57	13.73	27	7.44	34	9.16	227	9.5
Campania	49	10.72	51	13.49	42	8.96	73	15.73	23	5.08	48	10.43	286	10.67
Apulia	37	8.22	45	9.98	42	8.11	79	16.42	40	8.02	76	14.18	319	10.87
Basilicata	19	6.96	24	10.26	22	7.83	40	12.31	17	6.59	16	8.00	138	8.78
Calabria	42	8.96	42	10.07	37	7.13	71	13.71	33	7.28	60	11.88	285	9.89
Sicily	41	10.00	40	9.85	50	10.37	67	14.14	23	4.38	52	11.71	273	9.96
Sardinia	20	8.40	26	9.89	21	6.29	36	12.24	9	5.73	19	10.73	131	8.95
Bolzano	28	8.86	27	7.83	24	6.49	49	12.22	31	10.16	32	8.94	191	9.12
Trento	43	10.34	33	7.73	44	8.78	46	9.22	27	5.72	37	7.06	230	8.1
Total	736	8.26	759	8.61	721	7.25	1242	12.71	526	5.86	938	10.19	4922	8.85