

Table 1: Frequency of HPV positivity according to the type of cervical lesion found

Pathological diagnosis	Number (%) HPV + cases	Number (%) single HPV cases	Number (%) multiple HPV cases	Number (%) HPV X cases
Benign lesions	19 (3.6%)	19 (100%)	0 (0%)	1 (5.3%)
CIN 1	349 (65.5%)	242 (69.3%)	107 (30.7%)	5 (1.4%)
CIN 2-3	158 (29.6%)	129 (81.6%)	29 (18.4%)	3 (1.9%)
ICC	7 (1.3%)	7 (100%)	0 (0%)	0 (0%)
Total cases	533 (100%)	397 (74.5%)	136 (25.5%)	9 (1.7%)

Table 2a: Distribution of HPV genotypes found in the study according to the pathological diagnosis

Genotype found	Total lesions					Benign lesions					CIN 1				
	N	% *	CI95%	% **	CI95%	N	% *	CI95%	% **	CI95%	N	% *	CI95%	% **	CI95%
HR-HPVs															
16	188	35.3	31.2-39.5	26.0	22.9-29.4	3	15.8	3.4-39.6	15.8	3.4-39.6	91	26.1	21.5-31.0	18.2	14.9-21.9
18	36	6.8	4.8-9.2	5.0	3.5-6.8	1	5.3	0.1-26.0	5.3	0.1-26.0	25	7.2	4.7-10.4	5.0	3.3-7.3
31	77	14.4	11.6-17.7	10.7	8.5-13.1	0	0	0.0-0.0	0	0.0-0.0	60	17.2	13.4-21.6	12.0	9.3-15.2
33	44	8.3	6.1-10.9	6.1	4.5-8.1	0	0	0.0-0.0	0	0.0-0.0	30	8.6	5.9-12.0	6.0	4.1-8.5
35	9	1.7	0.8-3.2	1.2	0.6-2.4	0	0	0.0-0.0	0	0.0-0.0	6	1.7	0.6-3.7	1.2	0.4-2.6
39	9	1.7	0.8-3.2	1.2	0.6-2.4	0	0	0.0-0.0	0	0.0-0.0	6	1.7	0.6-3.7	1.2	0.4-2.6
45	19	3.6	2.2-5.5	2.6	1.6-4.1	0	0	0.0-0.0	0	0.0-0.0	16	4.6	2.6-7.3	3.2	1.8-5.2
51	21	3.9	2.5-6.0	2.9	1.8-4.4	0	0	0.0-0.0	0	0.0-0.0	16	4.6	2.6-7.3	3.2	1.8-5.2
52	41	7.7	5.6-10.3	5.7	4.1-7.6	0	0	0.0-0.0	0	0.0-0.0	26	7.4	4.9-10.7	5.2	3.4-7.5
56	14	2.6	1.4-4.4	1.9	1.1-3.2	0	0	0.0-0.0	0	0.0-0.0	12	3.4	1.8-5.9	2.4	1.2-4.2
58	58	10.9	8.4-13.8	8.0	6.2-10.3	0	0	0.0-0.0	0	0.0-0.0	45	12.9	9.6-16.9	9.0	6.7-11.9
59	15	2.8	1.6-4.6	2.1	1.2-3.4	0	0	0.0-0.0	0	0.0-0.0	14	4.0	2.2-6.6	2.8	1.5-4.7
68	28	5.3	3.5-7.5	3.9	2.6-5.6	0	0	0.0-0.0	0	0.0-0.0	24	6.9	4.5-10.1	4.8	3.1-7.1
PHR-HPVs															
53	37	6.9	4.9-9.4	5.1	3.6-7.0	1	5.3	0.1-26.0	5.3	0.1-26.0	32	9.2	6.4-12.7	6.4	4.4-8.9
66	32	6.0	4.1-8.4	4.4	3.1-6.2	0	0	0.0-0.0	0	0.0-0.0	30	8.6	5.9-12.0	6.0	4.1-8.5
LR-HPVs															
6	45	8.4	6.2-11.1	6.2	4.6-8.3	8	42.1	20.3-66.5	42.1	20.3-66.5	32	9.2	6.4-12.7	6.4	4.4-8.9
11	31	5.8	4.0-8.2	4.3	2.9-6.0	5	26.3	9.1-51.2	26.3	9.1-51.2	20	5.7	3.5-8.7	4.0	2.5-6.1
42	3	0.6	0.1-1.6	0.4	0.1-1.2	0	0	0.0-0.0	0	0.0-0.0	3	0.9	0.2-2.5	0.6	0.1-1.7
43	1	0.2	0.0-1.0	0.1	0.0-0.8	0	0	0.0-0.0	0	0.0-0.0	1	0.3	0.0-1.6	0.2	0.0-1.1
44	5	0.9	0.3-2.2	0.7	0.2-1.6	0	0	0.0-0.0	0	0.0-0.0	5	1.4	0.5-3.3	1.0	0.3-2.3
X	9	1.7	0.8-3.2	1.2	0.6-2.4	1	5.3	0.1-26.0	5.3	0.1-26.0	5	1.4	0.5-3.3	1.0	0.3-2.3

N: total number of times which each genotype was detected.

* Percentages referred to the number of lesions infected by one or several genotypes (533 Total lesions, 19 benign lesions and 349 CIN 1).

** Percentages referred to the total number of virus detected (722 viruses in the Total of lesions, 19 in the Benign lesions and 499 in CIN 1).

CI95%: 95% confidence intervals used for estimate percentages.

Table 2b: Distribution of HPV genotypes found in the study according to the pathological diagnosis

Genotype found	CIN 2-3					Invasive carcinoma				
	N	% *	CI95%	% **	CI95%	N	% *	CI95%	% **	CI95%
HR-HPVs										
16	89	56.3	48.2-64.2	45.2	38.1-52.4	5	71.4	29.0-96.3	71.4	29.0-96.3
18	9	5.7	2.6-10.5	4.6	2.1-8.5	1	14.3	0.4-57.9	14.3	0.4-57.9
31	17	10.8	6.4-16.7	8.6	5.1-13.5	0	0	0.0-0.0	0	0.0-0.0
33	14	8.9	4.9-14.4	7.1	3.9-11.6	0	0	0.0-0.0	0	0.0-0.0
35	3	1.9	0.4-5.4	1.5	0.3-4.4	0	0	0.0-0.0	0	0.0-0.0
39	3	1.9	0.4-5.4	1.5	0.3-4.4	0	0	0.0-0.0	0	0.0-0.0
45	3	1.9	0.4-5.4	1.5	0.3-4.4	0	0	0.0-0.0	0	0.0-0.0
51	5	3.2	1.0-7.2	2.5	0.8-5.8	0	0	0.0-0.0	0	0.0-0.0
52	15	9.5	5.4-15.2	7.6	4.3-12.2	0	0	0.0-0.0	0	0.0-0.0
56	2	1.3	0.2-4.5	1.0	0.1-3.6	0	0	0.0-0.0	0	0.0-0.0
58	13	8.2	4.5-13.7	6.6	3.6-11.0	0	0	0.0-0.0	0	0.0-0.0
59	1	0.6	0.0-3.5	0.5	0.0-2.8	0	0	0.0-0.0	0	0.0-0.0
68	4	2.5	0.7-6.4	2.0	0.6-5.1	0	0	0.0-0.0	0	0.0-0.0
PHR-HPVs										
53	4	2.5	0.7-6.4	2.0	0.6-5.1	0	0	0.0-0.0	0	0.0-0.0
66	2	1.3	0.2-4.5	1.0	0.1-3.6	0	0	0.0-0.0	0	0.0-0.0
LR-HPVs										
6	5	3.2	1.0-7.2	2.5	0.8-5.8	0	0	0.0-0.0	0	0.0-0.0
11	5	3.2	1.0-7.2	2.5	0.8-5.8	1	14.3	0.4-57.9	14.3	0.4-57.9
42	0	0	0.0-0.0	0	0.0-0.0	0	0	0.0-0.0	0	0.0-0.0
43	0	0	0.0-0.0	0	0.0-0.0	0	0	0.0-0.0	0	0.0-0.0
44	0	0	0.0-0.0	0	0.0-0.0	0	0	0.0-0.0	0	0.0-0.0
X	3	1.9	0.4-5.4	1.5	0.3-4.4	0	0	0.0-0.0	0	0.0-0.0

N: total number of times which each genotype was detected.

* Percentages referred to the number of lesions infected by one or several genotypes (158 CIN 2-3 and 7 invasive carcinomas).

** Percentages referred to the total number of virus detected (197 viruses in CIN 2-3 and 7 in Invasive carcinomas).

CI95%: 95% confidence intervals used for estimate percentages.

Table 3: Pathological diagnoses and co-infection occurrence

Pathological diagnosis	2 HPV types	3 HPV types	4 HPV types	5 HPV types	6 HPV types	Total
	n° (%)	n° (%)	n° (%)	n° (%)	n° (%)	n° (%)
CIN 1	76 (71.0%)	22 (20.6%)	7 (6.5%)	1 (0.9%)	1 (0.9%)	107 (78.7%)
CIN 2-3	20 (69.0%)	8 (27.6%)	1 (3.4%)	0 (0.0%)	0 (0.0%)	29 (21.3%)
Total	96 (70.6%)	30 (22.1%)	8 (5.9%)	1 (0.7%)	1 (0.7%)	136 (100%)

Percentage referred to total of co-infections (n = 136).

Table 4: HPV genotype distribution in coinfection cases

Genotype found	CIN 1					CIN 2-3				
	N	% *	CI95%	% **	CI95%	N	% *	CI95%	% **	CI95%
HR-HPVs										
16	42	39.3	30.0-49.2	16.3	12.0-21.4	16	55.2	35.7-73.6	23.5	14.1-35.4
18	12	11.2	5.9-18.8	4.7	2.4-8.0	3	10.3	2.2-27.4	4.4	0.9-12.4
31	27	25.2	17.3-34.6	10.5	7.0-14.9	5	17.2	5.8-35.8	7.4	2.4-16.3
33	16	15.0	8.8-23.1	6.2	3.6-9.9	8	27.6	12.7-47.2	11.8	5.2-21.9
35	1	0.9	0.0-5.1	0.4	0.0-2.1	2	6.9	0.8-22.8	2.9	0.4-10.2
39	3	2.8	0.6-8.0	1.2	0.2-3.4	1	3.4	0.1-17.8	1.5	0.0-7.9
45	11	10.3	5.2-17.7	4.3	2.2-7.5	3	10.3	2.2-27.4	4.4	0.9-12.4
51	11	10.3	5.2-17.7	4.3	2.2-7.5	1	3.4	0.1-17.8	1.5	0.0-7.9
52	16	15.0	8.8-23.1	6.2	3.6-9.9	8	27.6	12.7-47.2	11.8	5.2-21.9
56	6	5.6	2.1-11.8	2.3	0.9-5.0	1	3.4	0.1-17.8	1.5	0.0-7.9
58	19	17.8	11.0-26.3	7.4	4.5-11.3	6	20.7	8.0-39.7	8.8	3.3-18.2
59	6	5.6	2.1-11.8	2.3	0.9-5.0	1	3.4	0.1-17.8	1.5	0.0-7.9
68	19	17.8	11.0-26.3	7.4	4.5-11.3	4	13.8	3.9-31.7	5.9	1.6-14.4
PHR-HPVs										
53	19	17.8	11.0-26.3	7.4	4.5-11.3	3	10.3	2.2-27.4	4.4	0.9-12.4
66	25	23.4	15.7-32.5	9.7	6.4-14.0	2	6.9	0.8-22.8	2.9	0.4-10.2
LR-HPVs										
6	12	11.2	5.9-18.8	4.7	2.4-8.0	3	10.3	2.2-27.4	4.4	0.9-12.4
11	5	4.7	1.5-10.6	1.9	0.6-4.5	1	3.4	0.1-17.8	1.5	0.0-7.9
42	3	2.8	0.6-8.0	1.2	0.2-3.4	0	0	0.0-0.0	0	0.0-0.0
43	1	0.9	0.0-5.1	0.4	0.0-2.1	0	0	0.0-0.0	0	0.0-0.0
44	3	2.8	0.6-8.0	1.2	0.2-3.4	0	0	0.0-0.0	0	0.0-0.0
X	0	0	0.0-0.0	0	0.0-0.0	0	0	0.0-0.0	0	0.0-0.0

N: total number of times which each genotype was detected.

* Percentages referred to the number of lesions infected by one or several genotypes (107 CIN 1 and 29 CIN 2-3 lesions).

**Percentages referred to the total number of virus detected in each kind of lesion (257 virus in CIN 1 and 68 in CIN 2-3 lesions).

CI95%: 95% confidence intervals used for estimate percentages.