

**Supplementary Table 1 – Distribution of HPV type-specific combinations found in multiple infections in tumor samples of women with cervical cancer in Rio de Janeiro and Pará, Brazil**

<b>HPV types in multiple infections</b>	<b>Rio de Janeiro</b>	<b>Pará</b>
HPV16, HPV18	4	3
HPV16, HPV33	0	2
HPV16, HPV45	2	2
HPV16, HPV39	1	0
HPV16, HPV42	1	0
HPV16, HPV58	0	1
HPV16, HPV18, HPV31	1	2
HPV16, HPV18, HPV33	0	1
HPV16, HPV18, HPV35	0	1
HPV16, HPV33, HPV45	0	2
HPV31, HPV35, HPV39	1	0
HPV16, HPV18, HPV45	1	0
HPV16, HPV18, HPV52	1	0
HPV16, HPV45, HPV58	0	1
HPV16, HPV18, HPV31, HPV33	1	1
HPV16, HPV18, HPV33, HPV45	1	0
HPV16, HPV18, HPV33, HPV52	0	2
HPV16, HPV18, HPV33, HPV54	1	0
HPV16, HPV18, HPV54, HPV61	1	0
HPV16, HPV18, HPV56, HPV82	0	1
HPV16, HPV33, HPV58, HPV67	0	1
HPV16, HPV45, HPV58, HPV54	1	0
HPV16, HPV18, HPV31, HPV33, HPV39	1	0
HPV16, HPV31, HPV33, HPV39, HPV68	1	0
HPV16, HPV18, HPV31, HPV33, HPV35, HPV52	1	0
HPV16, HPV18, HPV33, HPV35, HPV45, HPV52	0	1
HPV16, HPV-X*	0	6
<b>TOTAL</b>	<b>20</b>	<b>27</b>

\*HPV-X: HPV DNA not identified

**Supplementary Table 2: Frequencies of cases of cervical cancer with a single infection of selected HPV type by age groups and location (Rio de Janeiro and Pará), Brazil**

Age (years)	Population in each age group (N)		HPV 16				HPV 18				Alpha-7				Alpha-9			
	Rio de Janeiro	Pará	Rio de Janeiro		Pará		Rio de Janeiro		Pará		Rio de Janeiro		Pará		Rio de Janeiro		Pará	
			n	%	n	%	n	%	n	%	n	%	n	%	n	%		
18 to 34	78	72	54	69.2	51	70.8	10	12.8	9	12.5	15	19.2	14	19.4	59	75.6	56	77.8
35 to 44	148	152	95	64.2	108	71.1	27	18.2	18	11.8	38	25.7	25	16.5	100	67.6	125	82.2
45 to 54	159	145	104	65.4	97	66.9	20	12.6	11	7.6	35	22.0	23	15.9	117	73.6	110	75.9
55 to 64	111	106	72	64.9	67	63.2	12	10.8	10	9.4	23	20.7	15	14.2	85	76.6	82	77.4
65 and older	74	91	48	64.9	48	52.8	7	9.5	10	11.0	10	13.5	17	18.7	57	77.0	66	72.5
<i>p value</i> <sup>a</sup>			0.960		0.042		0.313		0.724		0.326		0.874		0.427		0.481	

Alpha-7: HPV 18, 39, 45, 59, 70, 68, 85. Alpha-9: HPV 16, 31, 33, 35, 52, 58, 11, 67

<sup>a</sup> Chi-squared test