

**Table S1.** Data of different recorded risk factors of 879 women <30, 30-44 and ≥45 years referred to colposcopy.

		<30y n(%)	30-44y n(%)	≥45y n(%)	All women n(%)		<30y n(%)	30-44y n(%)	≥45y n(%)	All women n(%)
		234(26.6)	444(50.5)	201(22.9)	879(100.0)		234(26.6)	444(50.5)	201(22.9)	879(100.0)
Contraception						Age at 1st intercourse				
	No	38(16.3)	93(21.1)	93(48.2)	223(25.8)	≤15y	84(36.2)	115(26.1)	36(17.9)	235(26.9)
	Condom	56(24.0)	139(31.6)	41(21.5)	236(27.3)	16-19y	138(59.5)	276(62.7)	132(65.7)	546(62.5)
	E+P <sup>1</sup>	85(36.5)	75(17.1)	7(3.7)	167(19.3)	≥20y	10(4.3)	49(11.1)	33(16.4)	92(10.5)
	Progestin <sup>2</sup>	32(13.7)	32(7.3)	7(3.7)	71(8.2)		232(100.0)	440(100.0)	201(100.0)	873(100.0)
	Hormonal-IUD	18(7.7)	81(18.4)	41(21.5)	140(16.2)	Lifetime partners #				
	Cu-IUD	4(1.7)	20(4.6)	3(1.6)	27(3.1)	1-3	24(10.3)	54(12.4)	39(19.7)	117(13.4)
		233(100.0)	440(100.0)	191(100.0)	864(100.0)	4-10	97(41.8)	161(37.1)	80(40.4)	338(38.7)
Hormonal contraception						11-20	65(28.0)	135(31.1)	42(21.2)	242(27.7)
	No	98(42.1)	252(57.3)	136(71.2)	486(56.3)	>20	46(19.8)	84(19.4)	37(18.7)	167(19.1)
	Yes	135(57.9)	188(42.7)	55(28.8)	378(43.8)		232(100.0)	434(100.0)	198(100.0)	873(100.0)
		233(100.0)	440(100.0)	191(100.0)	864(100.0)	TOP				
Oral sex						No	184(78.6)	339(76.4)	160(79.6)	683(77.7)
	Never	9(3.9)	39(8.9)	48(24.2)	96(11.1)	Yes	50(21.4)	105(23.6)	41(20.4)	196(22.3)
	Ever/Regularly	223(96.1)	397(91.1)	150(75.8)	770(88.9)		234(100.0)	444(100.0)	201(100.0)	879(100.0)
		232(100.0)	436(100.0)	198(100.0)	866(100.0)	Vitamine-D usage				
Anal sex						No	123(53.0)	191(43.2)	82(41.0)	396(45.3)
	Never	171(74.7)	306(70.0)	155(78.3)	632(73.1)	Yes	109(47.0)	251(56.8)	118(59.0)	478(54.7)
	Ever/Regularly	58(25.3)	131(30.0)	43(21.7)	232(26.9)		232(100.0)	442(100.0)	200(100.0)	874(100.0)
		229(100.0)	437(100.0)	198(100.0)	864(100.0)	Atopia				
Parity						No	185(80.4)	357(81.0)	163(81.9)	705(81.0)
	0	187(79.9)	182(41.0)	31(15.4)	400(45.5)	Yes	45(19.6)	84(19.0)	36(18.1)	165(19.0)
	1-2	47(20.1)	200(45.0)	111(55.2)	358(40.7)		230(100.0)	441(100.0)	199(100.0)	870(100.0)
	≥3	0(0.0)	62(14.0)	59(29.4)	121(13.8)	Miscarriages				
		234(100.0)	444(100.0)	201(100.0)	879(100.0)	No	221(94.4)	360(81.1)	166(82.6)	747(85.0)
Use of alcohol						Yes	13(5.6)	84(18.9)	35(17.4)	132(15.0)
	no	22(9.5)	40(9.1)	19(9.6)	81(9.3)		234(100.0)	444(100.0)	201(100.0)	879(100.0)
	<6 doses/use	12(5.2)	74(16.9)	57(28.6)	143(16.5)	Drugs				
	>6doses/use	197(85.3)	324(74.0)	123(61.8)	644(74.2)	Never	182(78.1)	342(77.4)	183(91.0)	707(80.7)
		231(100.0)	438(100.0)	199(100.0)	868(100.0)	Yes/tried	51(21.9)	100(22.6)	18(9.0)	169(19.3)
Smoking							233(100.0)	442(100.0)	201(100.0)	876(100.0)
	No	103(44.0)	188(42.3)	94(46.8)	385(43.8)	Referral cytology				
	Yes	59(25.2)	117(26.4)	37(18.4)	213(24.2)	ASCUS	28(12.0)	28(6.3)	23(11.4)	79(9.0)
	Ex	72(30.8)	139(31.3)	70(34.8)	281(32.0)	LSIL	55(23.5)	182(41.0)	88(43.8)	325(37.0)
		234(100.0)	444(100.0)	201(100.0)	879(100.0)	ASC-H	67(28.6)	99(22.3)	40(19.9)	206(23.4)
>1 partner in 12mo						HSIL	59(25.2)	90(20.3)	26(12.9)	175(19.9)
	0-1	181(78.4)	360(82.6)	179(90.4)	720(83.2)	AGC-NOS	4(1.7)	9(2.0)	10(5.0)	23(2.6)
	>1	50(21.6)	76(17.4)	19(9.6)	145(16.8)	AGC-FN	3(1.3)	8(1.8)	7(3.5)	18(2.0)
		231(100.0)	436(100.0)	198(100.0)	865(100.0)	NILM	0(0.0)	1(0.2)	3(1.5)	4(0.5)
						Not taken	18(7.7)	27(6.1)	4(2.0)	49(5.6)

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234(100.0)	444(100.0)	201(100.0)	879(100.0)
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<sup>1</sup>E+P includes estrogen and progestin pills, contraceptive patches and rings

<sup>2</sup>Progestin includes progestin pills and implants

Cu-IUD = copper-releasing intrauterine device, Hormonal-IUD = Levonorgestrel-releasing IUD, HrHPV = high-risk human papillomavirus, LrHPV = low-risk human papillomavirus, NP<sup>a</sup> = Non pertinent due to perfect prediction, NP<sup>b</sup> = Non pertinent due to zero observation, TOP = termination of pregnancy, NILM = negative for intraepithelial lesion or malignancy, AS-CUS = atypical squamous cells of undetermined significance, LSIL = low-grade squamous intraepithelial lesion, HSIL = high-grade squamous intraepithelial lesion, ASC-H = atypical squamous cells cannot exclude HSIL, AGC-NOS = atypical glandular cells not otherwise specified, AG-FN = atypical glandular cells that favor neoplasia.