

Table 2. Coincidence of HSV-1 and HSV-2 infection by age

Study location, reference	Study year	Group tested	Sex	Mean or median age, in years (range)	N ₁	N ₀	D ₁	D ₀	Effect	95% CI	Type of effect	Adj. effect	95% CI
World													
Australia, Canada, Italy and USA [2]	1996-1997	HSV-2 seronegative individuals with a partner with genital herpes	F+ M		626	243	41	35	0.45	0.30, 0.70	RR		
Africa													
Ethiopia, Addis Ababa [3]	1996	General population	F+ M	15-54	479	32	162	16	0.51	0.25, 1.05	OR		
			F	28	231	13	86	6	0.69	0.23, 2.13	OR		
			M	25	248	19	76	10	0.40	0.16, 1.02	OR	0.40	0.14, 1.19
Central and South America													
Mexico, Mexico City [16]	1992	Commercial sex workers	F	16->37	936	61	560	46	0.49	0.27, 0.88	OR	0.37	0.19, 0.73
North America													
Canada, Ontario [19]	2000-2001	Low-risk individuals	F+ M	18-45	116	115	100	60	1.72	1.23, 2.39	OR		
			F	Prenatal care; 18-45	436	265	44	26	1.03	0.62, 1.72	OR		
				No prenatal care; 18-45	331	307	25	13	1.85	0.93, 3.68	OR		
			M	18-45	396	583	31	24	1.98	1.14, 3.43	OR		
USA [20, 21]	1993-1995	HSV-2 seronegative individuals with an HSV-2 seropositive	F+ M	28 (17-79)	150	883	95	60	0.98	0.70, 1.34	Rate ratio		

		partner; STI clinic attendees											
USA, various sites [22, 23]	1988-1994	General population	F+ M	12≥70	983 9	325 5	286 1	671	1.58	1.44, 1.74	OR		
			F	12≥70	512 6	156 1	173 7	394	1.52	1.34, 1.73	OR		
			M	12≥70	471 3	169 4	112 4	277	1.60	1.39, 1.85	OR		
			F+ M	12-19	136 2	103 4	116 4	34	2.74	1.85, 4.05	OR		
				20-29	194 9	801	419	162	1.08	0.88, 1.32	OR		
				30-39	195 6	611	694	210	1.05	0.87, 1.27	OR		
				40-49	168 1	380	619	136	1.05	0.83, 1.32	OR		
				50-59	722	162	250	48	1.26	0.87, 1.82	OR		
				60-69	928	141	366	50	1.19	0.82, 1.71	OR		
				≥70	124 1	126	397	31	1.44	0.94, 2.20	OR		
USA, four cities [25]	1993-1999	HIV-positive individuals	F	16-55	629	215	408	163	0.59	0.41, 0.84	OR		
				16-25	53	14	30	8	0.98	0.30, 3.21	OR		
				26-30	106	46	66	32	0.72	0.34, 1.51	OR		
				31-35	188	63	120	47	0.60	0.32, 1.14	OR		
				36-40	145	51	96	40	0.54	0.25, 1.14	OR		
				41-45	98	22	68	19	0.36	0.10, 1.30	OR		
				46-55	39	19	28	17	0.30	0.06, 1.52	OR		
USA, Baltimore, Denver, Long Beach, Newark and San	1993-1996	HIV-negative STI clinic attendees	F+ M	25 (14+76)	291 8	121 0	122 6	459	1.19	1.03, 1.36	OR	0.78	0.66, 0.92

USA, Washington, Seattle [43]	1989-1995	HIV-positive pregnant women	F	27	39	21	27	18	0.38	0.09, 1.52	OR				
		HIV-negative pregnant women	F	25	563 9	276 9	161 0	109 9	0.61	0.55, 0.67	OR				
USA, Washington, Seattle [44]	1991-1993	Family medical clinic attendees	F+	33	521	433	123	102	1.00	0.74, 1.35	OR				
			M												
USA, Washington, Seattle and Tacoma [45]	1989-1993; 1990-1993	Pregnant women	F	25	556 6	297 2	149 2	939	0.79	0.72, 0.87	OR				
USA, Washington, Seattle [46]	1991-1992	Family medical clinic attendees	F+	32.7	277	218	59	55	0.80	0.53, 1.22	OR				
			M												
			F	32.7	170	140	45	42	0.84	0.51, 1.38	OR				
			M	32.7	107	78	14	13	0.75	0.33, 1.71	OR				
USA, Washington, Seattle [47]	1984-1986	STI clinic attendees	F	24	455	301	196	141	0.86	0.64, 1.15	OR				
	1984-1987	Health clinic attendees	F	24	245	389	15	41	0.55	0.30, 1.02	OR				
USA, Washington, Seattle [48]	1983-1986	Homosexual STI clinic attendees	M	28/25	113	72	56	40	0.79	0.43, 1.42	OR				
Asia/Australia															
Australia, Melbourne [49]	1999-2000	HIV-positive homosexuals	M	39.0	119	43	28	17	0.47	0.22, 0.99	OR				
		HIV-negative homosexuals	M	36.5	101	37	52	32	0.17	0.06, 0.46	OR				
Australia, Melbourne [50]	1995-1996	Individuals with no history of genital herpes and with a	F+	18-45	231	106	103	9	8.67	4.18, 18.01	OR				
			M												
			F	32	111	66	41	3	12.30	3.63,	OR				

		partner with HSV-2 genital herpes	M	34	120	40	62	6	6.06	41.69	OR		
			F+	18-25	28	16	11	2	4.53	0.86, 23.93	OR		
			M	26-30	52	36	31	4	11.81	3.64, 38.35	OR		
				31-35	62	25	24	1	15.16	1.92, 119.48	OR		
				36-40	48	16	24	2	7.00	1.43, 34.19	OR		
				41-45	41	13	13	0			OR		
Australia, Sydney [51]	1995-1998	Pregnant women	F	15-≥35	321	85	52	2	8.02	1.91, 33.64	OR		
Australia, Sydney [52]	Pre-1993	STI clinic attendees	F+	29.3/32.2	76	31	29	14	0.75	0.32, 1.74	OR		
		Pregnant women	F	25.5/26.3	183	46	23	10	0.52	0.23, 1.18	OR		
India, Tamil Nadu state, Chennai [55]	Pre-2003	HIV-negative blood donors	F+	16->36	27	73	0	1	0.00		OR		
Japan, Nagoya [57]	1985-1989	Blood donors	M	38.8	26	15	0	1	0.00		OR		
Japan, Osaka [57]	1985-1989	Commercial sex workers	F	34.7	53	17	41	15	0.46	0.09, 2.28	OR		
Japan, Tokyo [57]	1985-1989	Pregnant women	F	29.1	45	45	1	5	0.18	0.02, 1.62	OR		
Japan, Kagoshima [57]	1985-1989	Pregnant women	F	29.9	144	56	29	3	4.46	1.30, 15.28	OR		
Europe/Middle East													
Denmark, Nykøbing Falster [61]	1988	General population born in Denmark	F	20-39	85	41	28	5	3.54	1.25, 10.00	OR		

Denmark, Nykøbing Falster [62]	1986	General population born in Denmark	F	20-39	295	93	109	11	4.37	2.23, 8.56	OR			
					20-24	57	34	17	0			OR		
					25-29	62	24	22	5	2.09	0.69, 6.37	OR		
					30-34	75	18	33	4	2.75	0.83, 9.14	OR		
					35-39	101	17	37	2	4.34	0.94, 20.02	OR		
Finland, Helsinki [63]	1988-1989	Pregnant women	F	30	698	299	138	19	3.63	2.20, 5.99	OR			
					560	280	2	3	0.33	0.06, 1.98	RR			
France, Paris [65]	1994	STI clinic attendees	F+ M	34.6	453	34	240	28	0.24	0.10, 0.59	OR			
Germany [66]	1996-1997	Blood donors and hospital patients	F+	18-65/1-≥70	366	139	524	124	1.71	1.39, 2.10	OR			
			M		5	3								
			F	18-65/1-≥70	190	691	318	71	1.76	1.34, 2.31	OR			
			M	18-65/1-≥70	176	702	206	53	1.62	1.18, 2.22	OR			
					5									
Germany, Frankfurt [67]	1997-2001	Low-risk hospital attendees	F+	15->40	302	944	504	137	1.18	0.96, 1.45	OR			
			M		3									
			F	15->40	176	537	319	92	1.07	0.83, 1.38	OR			
					4									
			M	15->40	125	407	185	45	1.39	0.98, 1.96	OR			
					9									
			F	15-39	102	417	153	52	1.23	0.88, 1.72	OR			
		6												
					736	120	165	40	0.58	0.38, 0.88	OR			
			M	15-39	426	240	52	15	2.09	1.15, 3.79	OR			
					833	167	133	30	0.87	0.56, 1.34	OR			
The Netherlands, Amsterdam [71]	1984-1985; 1995-1997	Homosexuals	M	27/26	364	168	147	29	3.25	2.07, 5.10	OR			
				1984-1985; 27 (IQR 25-29)	187	45	98	21	1.26	0.66, 2.42	OR	0.76	0.35, 1.66	
				1995-1997; 26 (IQR 23-28)	177	123	49	8	5.50	2.50, 12.11	OR	4.30	1.87, 9.91	
The Netherlands,	1998	STI clinic attendees	F+		384	270	92	49	1.42	0.96, 2.10	OR	1.0	0.5, 1.8	

Rotterdam [73]			M	31 (16-71)															
	1993-1994	STI clinic attendees	F+ M	F: 27 (15-63); M: 33/34 (17-69)	695	329	228	75	1.65	1.22, 2.24	OR	1.1	0.8, 1.7						
Spain, Madrid [74]	1993-1994	General population	F	15-45	544	148	17	7	0.65	0.26, 1.60	OR								
Switzerland, Basel [75]	1997	General population	F+ M	31	117	34	16	2	2.53 11.62	0.55, 11.62	OR								
			F	31	71	18	11	2	1.47	0.29, 7.30	OR								
			M	31	46	16	5	0			OR								
UK, Coventry [76]	Pre-2003	STI clinic attendees not known to be HIV-positive	F+ M	28 (16-66)	128	86	25	18	0.92	0.47, 1.81	OR								
			F	26 (16-65)	67	44	14	10	0.90	0.36, 2.25	OR								
			M	31 (16-66)	61	42	11	8	0.94	0.34, 2.57	OR								
UK, Middlesbrough [80]	1996-1997	STI clinic attendees	F	28.0 (14-64)	187	82	47	11	2.17	1.06, 4.43	OR								
		Pregnant women	F	26.9 (14-42)	108	90	9	7	1.08	0.38, 3.02	OR								

Key: N_i, number of HSV-1 seropositive individuals; N_s, number of HSV-1 seronegative individuals; D_i, number HSV-2 seropositive among HSV-1 seropositive individuals; D_s, number HSV-2 seropositive among HSV-1 seronegative individuals; 95% CI, 95% confidence interval; F, female; M, male; F+M, data for females and males combined; F/M, data for females and males separately; RR, risk ratios; OR, odds ratio; STI, sexually transmitted infection; IQR, inter-quartile range.