

Technical Reports

AIDS surveillance in Europe: Status at 31st December 1990

The AIDS cases recorded in this report fulfil the CDC case definition published in the Morbidity and Mortality Weekly Report in September 1982 (MMWR, Sept. 24, 1982, 31, 507–514) and revised in June 1985 (MMWR, June 28, 1985, 34, 373–375; WHO: Wkly. Epidem. Rec. 1986; 61: 69–72) and in August 1987 (MMWR, August 14, 1987, 36/N° 1 S; WHO: Wkly. Epidem. Rec. 1988; 63: 1–7). One source per country, recognized by the respective national health authorities, provides the information. The national data are noted on standard tables, and each source is responsible for the quality of the data provided.

By 31st December 1990, a cumulative total of 47 481 AIDS cases had been reported to the European Centre for the Epidemiological Monitoring of AIDS (WHO-EC Collaborating Centre on AIDS) by 31 countries (Table 1). It should be noted that reports from the Federal Republic of Germany now include data from the former German Democratic Republic. AIDS surveillance data reported in France are again available with a cumulative total of 13 145 cases reported by 31st December 1990 (3427 new cases since March 1990, when data were last available).

Tab. 1. Cumulative AIDS cases and estimated cumulative incidence rates per million population, reported by 31st December 1990, 31 European countries.

Country	Dec. 1989	March 1990	June 1990	Sept. 1990	Dec. 1990	Rate per million *
Albania #	0	0	0	0	0	0,0
Austria	369	415	450	474	502	65,8
Belgium	596	651	725	764	824	82,9
Bulgaria	7	7	7	7	9	1,0
Czechoslovakia	19	23	23	24	24	1,5
Denmark	518	573	618	663	718	139,9
Finland	56	58	62	71	75	15,1
France	8883	9718	9718	9718	13145	234,1
German, Dem. Rep.	19	19	22	25	—	—
Germany, Fed. Rep.	4306	4653	4922	5266	5612 **	71,3
Greece	277	295	347	375	412	41,1
Hungary	32	34	37	42	48	4,5
Iceland	13	13	14	14	16	64,0
Ireland	124	142	152	161	179	51,0
Israel	101	109	116	125	141	30,7
Italy	5307	6068	6701	7576	8227	143,0
Luxemburg	24	26	27	30	33	87,5
Malta	14	14	14	15	15	42,9
Monaco	2	2	2	4	5	178,6
Netherlands	1074	1189	1313	1443	1531	103,1
Norway	145	153	160	176	195	46,1
Poland	28	35	39	43	50	1,3
Portugal	348	410	455	481	573	55,5
Romania	69	69	741	999	1168	50,4
San Marino	1	1	1	1	1	43,5
Spain	4633	5295	6210	7047	7489	192,6
Sweden	380	406	443	487	510	60,0
Switzerland	1159	1255	1354	1354	1497	242,9
Turkey	28	31	34	36	44	0,8
United Kingdom	2830	3157	3433	3798	4098	71,6
USSR	26	26	40	40	48	0,2
Yugoslavia	109	120	134	147	174	7,3
Total	31497	34967	38314	41549	47481	

* Source of population data: Population & Sociétés, INED, Paris, 1990, No. 250.

** Includes cases reported in former GDR.

September 1990 data.

Tab. 2. AIDS cases by country and half-year of diagnosis, reported by 31st December 1990, 31 European countries.

Country	Half-year of diagnosis														Total								
	<1981	81i	81ii	82i	82ii	83i	83ii	84i	84ii	85i	85ii	86i	86ii	87i	87ii	88i	88ii	89i	89ii	90i	90ii	?	
Albania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Austria	0	0	0	0	0	6	1	2	4	5	13	8	15	41	41	50	53	62	77	71	53	0	
Belgium	3	4	4	7	8	15	19	23	29	35	40	32	38	52	64	71	66	79	79	92	64	0	
Bulgaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3	2	1	1	0	
Czechoslovakia	0	0	0	0	0	0	0	0	0	1	0	4	2	1	1	2	1	5	2	4	1	0	
Denmark	1	2	1	2	1	2	10	9	8	16	22	28	41	44	56	58	67	81	90	88	91	0	
Finland	0	0	0	1	0	1	1	1	2	1	3	1	6	9	8	5	12	6	12	6	10	0	
France	9	4	4	13	16	40	50	91	136	236	326	517	686	1033	1132	1421	1483	1650	1745	1565	988	0	
Germany, F.R.	3	1	0	5	9	25	21	49	82	129	185	260	315	454	584	614	639	711	710	489	327	0	
Greece	0	0	0	0	0	0	0	2	4	3	4	9	13	14	39	39	43	56	51	70	65	0	
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	1	4	3	5	4	5	10	5	11	0	
Iceland	0	0	0	0	0	0	0	0	0	0	1	1	2	4	7	13	16	26	24	28	27	0	
Ireland	0	0	0	1	1	1	0	1	2	0	5	2	4	7	10	15	6	9	20	13	16	0	
Israel	1	0	0	1	1	2	6	2	3	6	4	8	11	7	10	15	6	9	20	13	16	0	
Italy	0	0	0	1	0	3	3	18	20	84	105	197	262	422	575	789	948	1156	1228	1418	998	0	
Luxembourg	0	0	0	0	0	0	0	0	0	1	2	1	2	1	2	3	1	5	6	3	6	0	
Malta	0	0	0	0	0	0	0	0	1	1	0	3	0	1	1	5	2	0	0	0	1	0	
Monaco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2	0	
Netherlands	0	0	0	1	4	6	13	7	24	32	32	52	84	112	127	163	158	179	203	200	134	0	
Norway	0	0	0	0	0	1	1	1	3	5	6	7	11	14	21	18	12	19	26	15	35	0	
Poland	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	2	6	18	12	9	0	
Portugal	0	0	0	0	0	1	0	2	0	12	15	9	21	30	31	53	46	82	78	99	63	31	
Romania	0	0	0	0	0	0	0	0	0	0	5	1	0	4	0	9	5	10	188	563	383	0	
San Marino	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Spain	0	0	1	2	2	7	7	19	27	52	107	174	249	375	534	914	970	1225	1136	1114	293	281	
Sweden	0	0	0	0	1	2	4	2	9	16	15	18	37	39	41	48	37	55	76	60	50	0	
Switzerland	0	0	5	1	4	6	7	12	16	26	49	57	93	99	141	188	203	233	195	181	99	0	
Turkey	0	0	0	0	0	0	0	0	0	0	2	0	1	7	2	1	8	6	6	4	7	0	
United Kingdom	1	0	3	3	7	7	27	31	73	81	142	205	229	288	250	396	433	460	472	469	301	120	
USSR	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	3	7	15	13	6	0	
Yugoslavia	0	0	0	0	0	0	0	0	0	0	2	3	3	7	11	14	25	21	23	25	40	0	
Total	18	11	18	38	54	125	170	272	443	742	1085	1597	2128	3062	3789	4909	5242	6160	6494	6609	4083	432	47481

i: 1st semester; ii: 2nd semester.

Tab. 2a. Deaths among AIDS cases, by country and half-year of diagnosis, reported by 31st December 1990, 31 European countries *.

Country	Half-year of diagnosis																						Total
	<1981	81i	81ii	82i	82ii	83i	83ii	84i	84ii	85i	85ii	86i	86ii	87i	87ii	88i	88ii	89i	89ii	90i	90ii	?	
Albania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Austria	0	0	0	0	0	5	1	2	4	4	10	6	14	30	31	34	28	25	30	18	10	0	
Belgium	3	4	4	7	6	13	15	19	23	25	25	22	24	31	34	31	21	30	20	21	7	0	
Bulgaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	0	
Czechoslovakia	0	0	0	0	0	0	0	0	0	1	0	2	1	1	1	2	0	3	2	2	0	0	
Denmark	1	1	1	2	1	2	10	9	8	16	21	27	36	35	42	38	48	52	28	23	13	0	
Finland	0	0	0	1	0	1	1	1	1	1	2	1	6	2	5	7	5	3	3	2	3	0	
France	7	2	2	12	12	30	41	79	109	179	244	369	480	679	675	796	748	707	594	355	137	0	
Germany, F.R.	3	1	0	4	7	20	18	39	63	95	121	186	209	270	327	309	306	268	216	117	36	0	
Greece #	0	0	0	0	0	0	0	2	4	3	3	7	9	10	19	12	15	16	12	0	0	0	
Hungary	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	5	3	4	8	1	1	0	
Iceland	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	2	1	1	1	0	0	0	
Ireland	0	0	0	1	1	1	0	1	2	0	5	2	4	7	10	3	6	6	10	6	9	0	
Israel	1	0	0	1	1	2	6	2	2	4	4	7	8	3	7	12	5	5	7	5	3	0	
Italy	0	0	0	0	0	3	2	17	19	78	92	173	223	349	437	518	572	598	465	367	153	0	
Luxembourg	0	0	0	0	0	0	0	0	0	1	2	1	2	1	2	2	1	2	2	1	1	0	
Malta	0	0	0	0	0	0	0	0	1	1	0	3	0	1	1	5	2	0	0	0	0	0	
Monaco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	
Netherlands *	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Norway	0	0	0	0	0	1	1	1	3	5	6	6	9	13	19	15	10	14	13	6	7	0	
Poland	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	2	6	11	7	2	0	
Portugal	0	0	0	0	0	0	0	2	0	8	9	9	19	23	21	35	24	43	30	27	17	18	
Romania	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	6	3	4	108	201	72	0	
San Marino	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Spain	0	0	1	2	2	5	7	16	25	39	91	145	182	247	318	419	364	332	253	183	27	65	
Sweden	0	0	0	0	1	2	4	2	9	14	15	14	33	32	36	31	20	21	27	13	6	0	
Switzerland	0	0	5	1	4	6	7	9	15	23	39	43	74	76	101	137	128	133	81	52	14	0	
Turkey	0	0	0	0	0	0	0	0	0	0	2	0	1	7	1	0	5	1	1	2	3	0	
United Kingdom	1	0	2	3	6	6	27	27	68	72	127	183	199	243	255	254	237	178	151	95	34	88	
USSR	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	3	6	7	5	2	0	
Yugoslavia	0	0	0	0	0	0	0	0	0	0	2	3	3	7	7	14	21	16	9	13	9	0	
Total	16	8	15	34	41	97	140	228	356	569	822	1211	1541	2074	2354	2688	2578	2476	2092	1522	566	171	21599

i: 1st semester; ii: 2nd semester.

* Netherlands: data on deaths not available.

Greece: December 1989 data.

Since December 1989, an increase of 50.7% (15 984 new cases) is noted. Between September and December 1990, the greatest increases in the number of reported cases were noted in the countries presented below:

Country	Newly reported cases	No. per week
France	(3427) ¹	87–88
Italy	651	50–51
Spain	442	34
Germany	346	26–27
United Kingdom	300	23–24
Romania	169	13
Switzerland	118	9–10
Portugal	92	7–8
Netherlands	88	6–7
Belgium	60	4–5
Denmark	55	4–5
Greece	37	2–3
Austria	28	2–3
Yugoslavia	27	2–3
Sweden	23	1–2

¹ Between March and December 1990.

The 18 countries are ordered by decreasing cumulative incidence rates. Variations between countries in apparent fatality rates reflect differences in the reporting of deaths from AIDS in each country. Of the 47 481 cases reported by 31st December 1990, 21 599 are known to have died (Table 3). The total case fatality rate observed by 1990 (45.5%) is higher than corresponding rates observed by December 1989 (41.2%) and December 1988 (39.3%). The particularly noticeable increase in 1990 could be due in part to efforts known to have been recently undertaken by certain countries to detect previously unreported deaths and to improve reporting of deaths.

The distribution of cases and related deaths by disease category at diagnosis is shown in Table 3. It is now two years since the implementation of the 1987 revision of the WHO/CDC case definition for AIDS in Europe. Cases fitting this definition and classified in the disease category opportunistic infections cannot be dissociated from those reported under the previous definition. However, a more detailed breakdown is of interest for cases diagnosed with HIV encephalopathy or HIV wasting syndrome and reported between 1988 and 1990:

AIDS cases by disease category and year of report.

Disease category	1988		1989		1990	
	N	%	N	%	N	%
HIV encephalopathy	441	4.97	551	4.43	708	4.42
HIV wasting syndrome	294	3.31	459	3.69	1 007	6.29
Other	8 142	91.72	11 429	91.88	14 299	89.29
Total	8 877	100.00	12 439	100.00	16 014	100.00

Cumulated AIDS cases per million population have been calculated for each country using 1989 population estimates (Institut National d'Etudes Demographiques [INED], Paris). The highest cumulative incidence rates per million population were noted in Switzerland (242.9), France (234.1), Spain (192.6), Italy (143.0) and Denmark (139.9). In some countries (e.g. Iceland, Monaco, San Marino) high observed rates are due to small population sizes. By way of comparison, the rate in the USA was 647.2 per million population (CDC, HIV/AIDS Surveillance Report, January 1991; 1–22).

The trends in incidence rates of cases and deaths per million population by half year of diagnosis are shown in Figures 1a and 1b for the 18 countries which reported 100 cases or more (see also trends in numbers of cases and deaths in Tables 2 and 2a)².

A yearly increase in the number of reported cases is noted in both these categories. However, while the proportion of cases with HIV encephalopathy has remained stable, a marked increase is noted in 1990 in the proportion of cases reported in the category HIV wasting syndrome.

The distribution of cases by age group at diagnosis and sex is shown in Table 4. A marked increase in the number of children under 5 years of age reported in the last year (1314 new cases) is mainly due to the occurrence of nosocomial infections (multi-injections and transfusions) among children in Romania. Among the adults and adolescents, male cases were most frequently reported in the 25–39 year age groups and females in slightly younger groups (20–34 years). In both sexes, however, the proportion of cases reported in the 30–34 year group increased in 1990 (see first Table next page).

² Due to the time required for notifications to reach the national surveillance centre, numbers for the more recent periods are provisional.

AIDS cases newly reported in 1989 and 1990, by age at diagnosis and sex.

Age group	1989				1990			
	Male		Female		Male		Female	
	N	%	N	%	N	%	N	%
13–14	16	0.2	1	0.1	10	0.1	1	0.0
15–19	49	0.6	17	1.3	55	0.4	25	1.2
20–24	556	6.9	200	15.1	869	7.0	342	16.4
25–29	2024	25.2	499	37.7	3093	24.8	779	37.4
30–34	1714	21.3	287	21.7	3024	24.2	483	23.2
35–39	1277	15.9	115	8.7	1938	15.5	171	8.2
40–49	1557	19.4	74	5.6	2250	18.0	124	5.9
50–59	599	7.4	53	4.0	887	7.1	78	3.7
> 60	251	3.1	79	6.0	359	2.9	82	3.9
Total	8043		1325		12485		2085	

Tab. 3. Cumulative AIDS cases and related deaths by disease category at diagnosis, reported by 31st December 1990, 31 European countries *.

Disease category **	Cases	%	Deaths #	Case fatality rate (%) # #
Opportunistic infection	35591	75,0	15833	44,5
Kaposi's sarcoma	5116	10,8	2265	44,3
Opportunistic infection plus Kaposi's sarcoma	1674	3,5	1095	65,4
Lymphoma	1424	3,0	839	58,9
HIV encephalopathy	1700	3,6	836	49,2
HIV wasting syndrome	1760	3,7	676	38,4
Lymphoid interstitial pneumonia	216	0,5	55	25,5
Total	47481	100,0	21599	45,5

* See Table 2 for the list of countries.

** Disease categories are ordered hierarchically. Cases belonging to more than one category are included in the category listed first.

Data on deaths: Netherlands: not available; Greece: December 1989 data.

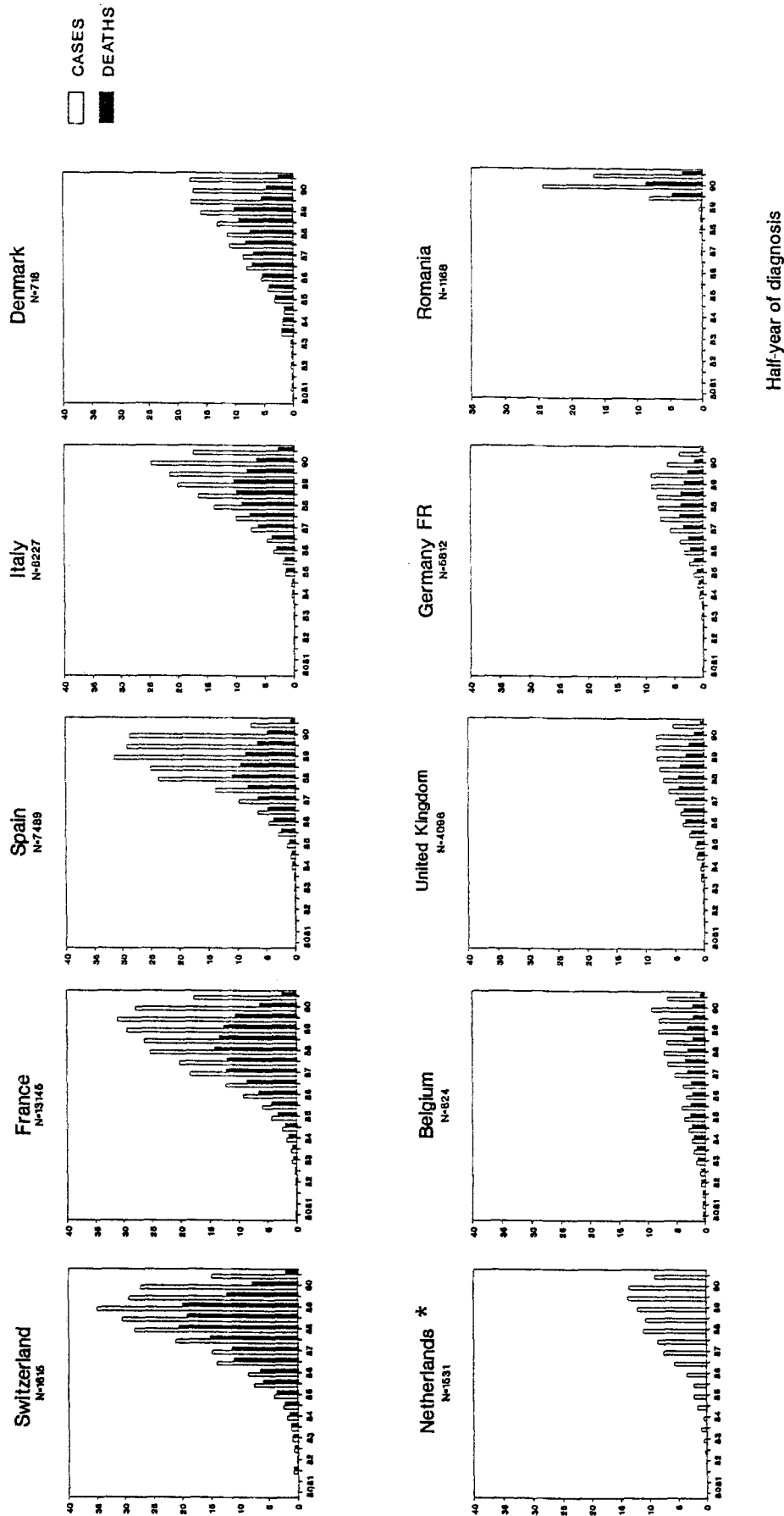
Due to under-reporting of deaths, case fatality rates given are lower than the true values.

Tab. 4. Cumulative AIDS cases by age group at diagnosis and sex, reported by 31st December 1990, 31 European countries*.

Age group	Male		Female		Total	%
	N	%	N	%		
0–11 months	407	1,0	365	5,3	772	1,6
1– 4 years	639	1,6	498	7,3	1137	2,4
5– 9 years	95	0,2	40	0,6	135	0,3
10–12 years	58	0,1	12	0,2	70	0,1
13–14 years	63	0,2	4	0,1	67	0,1
15–19 years	258	0,6	76	1,1	334	0,7
20–24 years	2969	7,3	1067	15,5	4036	8,5
25–29 years	9076	22,3	2142	31,2	11218	23,6
30–34 years	8633	21,3	1219	17,8	9852	20,7
35–39 years	6430	15,8	488	7,1	6918	14,6
40–49 years	7688	18,9	365	5,3	8053	17,0
50–59 years	2959	7,3	269	3,9	3228	6,8
≥ 60 years	1193	2,9	307	4,5	1500	3,2
Unknown	146	0,4	15	0,2	161	0,3
Total	40614	100,0	6867	100,0	47481	100,0
Percentage	85,5%		14,5%		100,0%	

* See Table 2 for the list of countries.

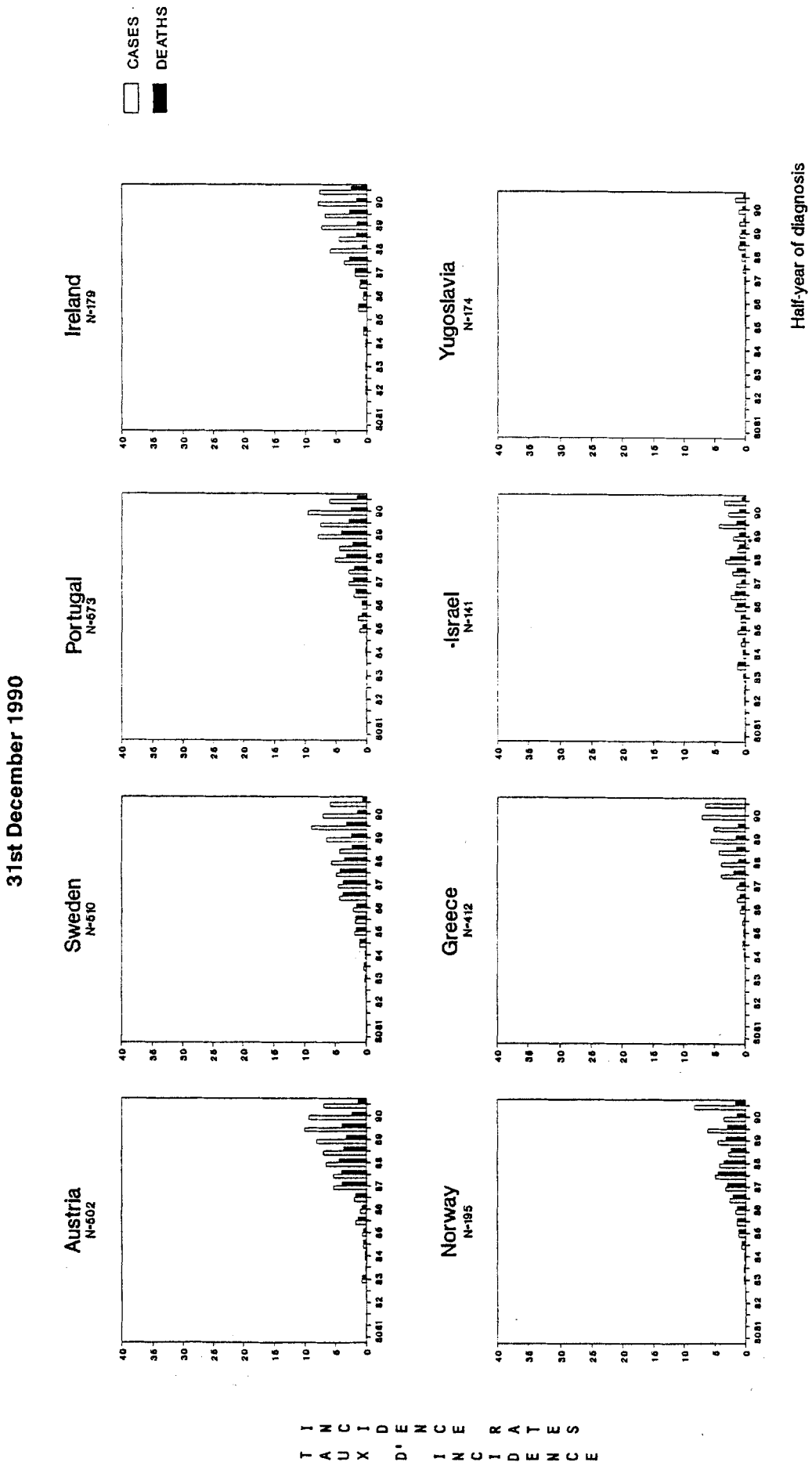
31st December 1990



Countries with total number of cases ≥ 700

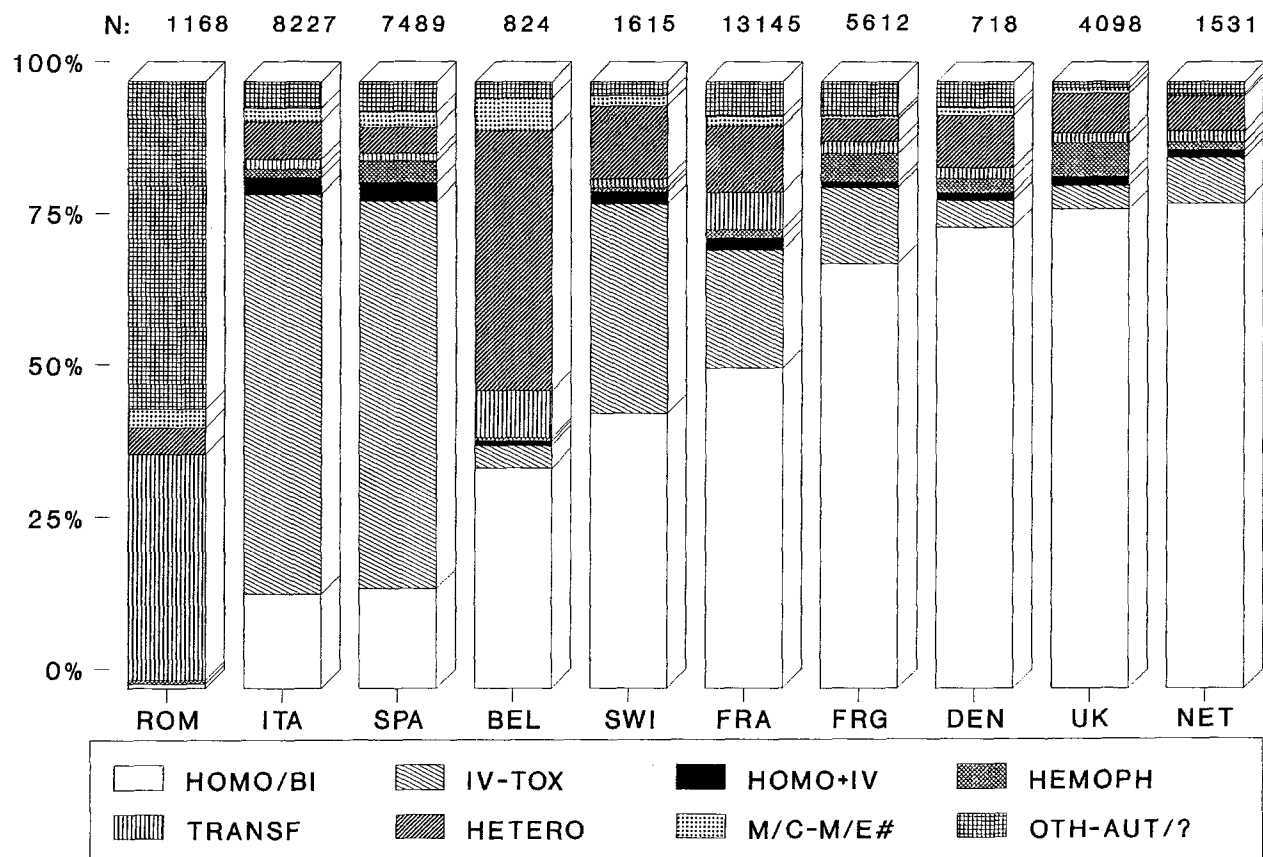
* Netherlands: data on deaths not available

Fig. 1 a. AIDS cases and deaths: incidence rates per million population by half-year of diagnosis.



Countries with total number of cases between 100 and 699
* Greece: data on deaths - December 1989

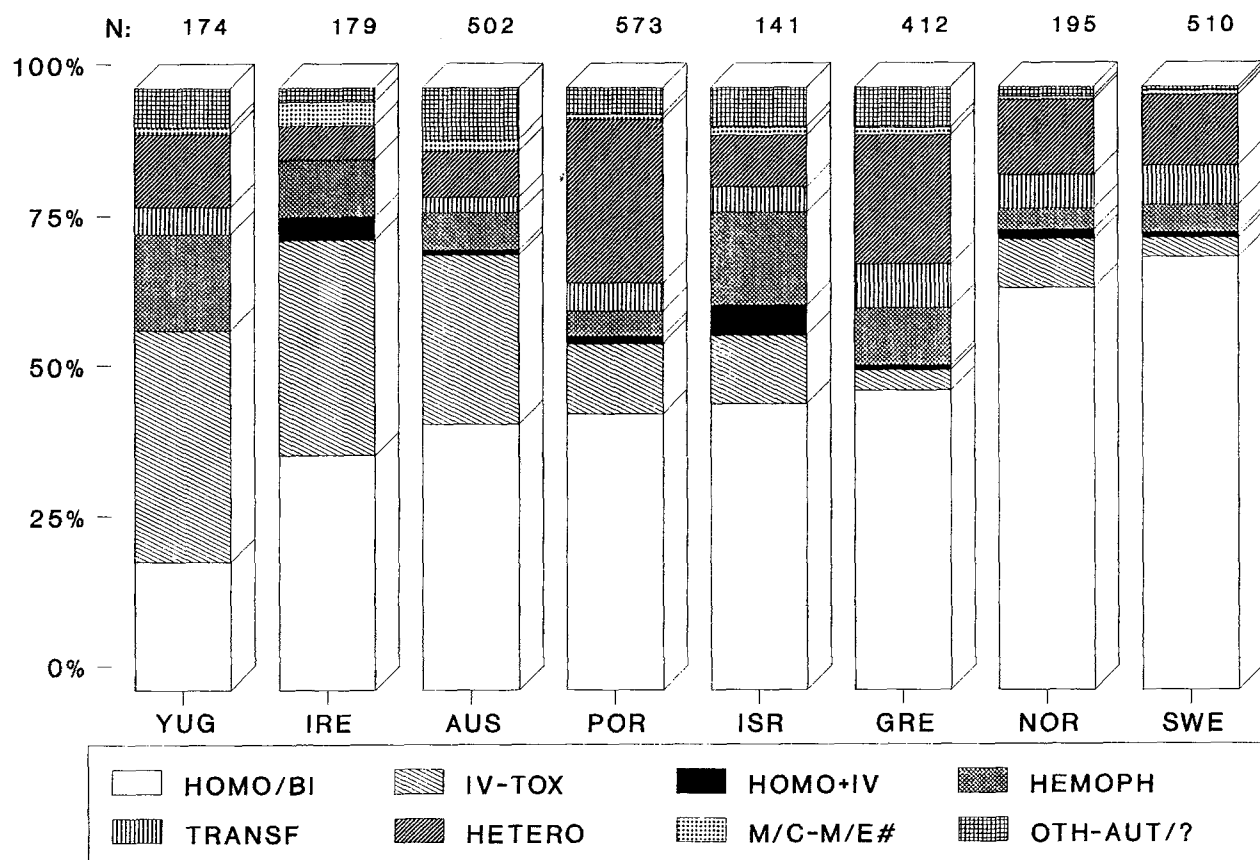
Fig. 1b. AIDS cases and deaths: incidence rates per million population by half-year of diagnosis.

* Countries with total number of cases ≥ 700

Transmission group:

Mother-child

Fig. 2a. Cumulative AIDS cases by transmission group and country* - 31st December 1990.

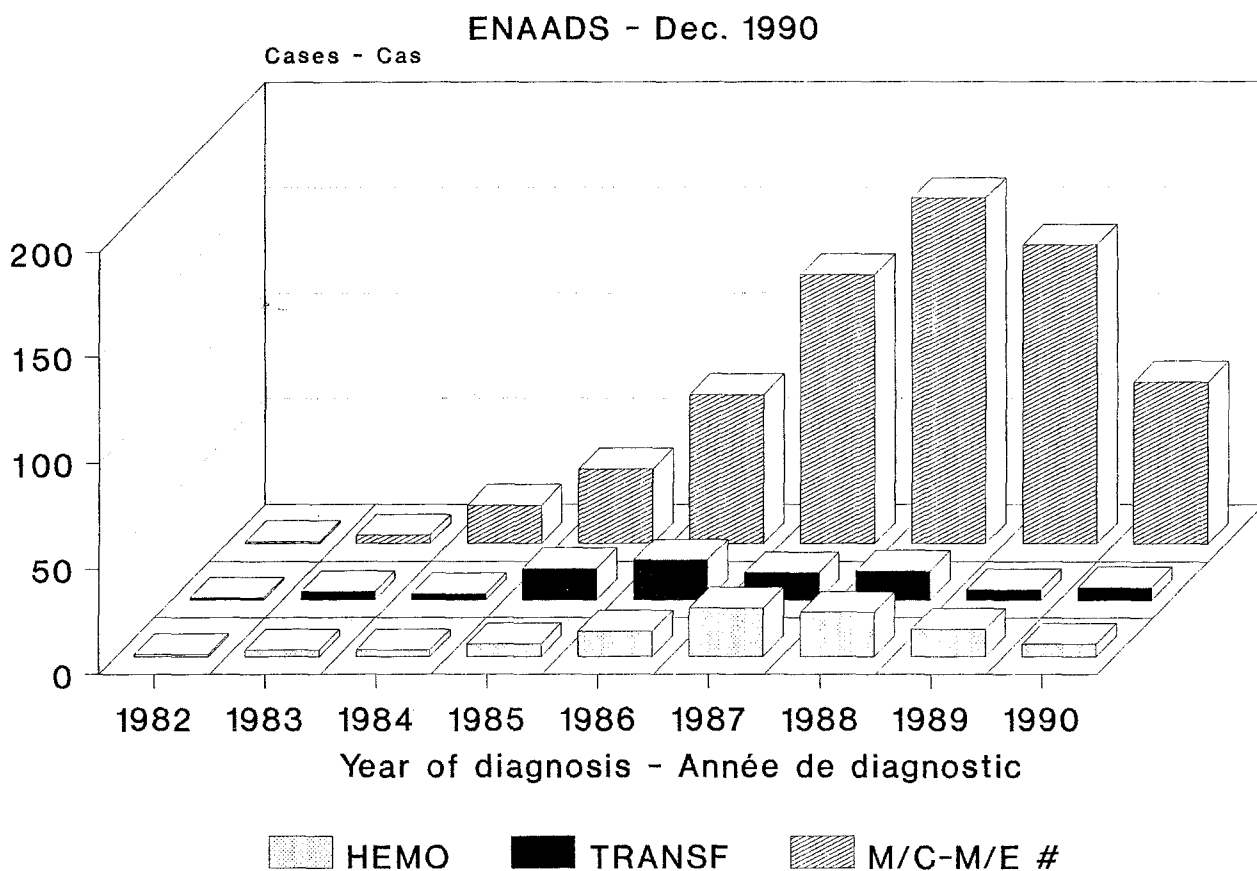


* Countries with total number of cases between 100 and 699

Transmission group:

Mother-child

Fig. 2b. Cumulative AIDS cases by transmission group and country* - 31st December 1990.



Austria, Czechoslovakia, France, Germany, F.R., Hungary, Iceland, Israel, Italy, Monaco, Netherlands, Poland, Portugal, Spain (March 90 data), Sweden, Switzerland, Turkey, United Kingdom, USSR, Yugoslavia

Allemagne, R.F., Autriche, France, Espagne (données de mars 1990), Hongrie, Islande, Israël, Italie, Monaco, Pays-Bas, Pologne, Portugal, Royaume-Uni, Suède, Suisse, Tchécoslovaquie, Turquie, URSS, Yougoslavie.

Transmission group: mother-to-child
Groupe de transmission : mère-enfant

Fig. 3. Paediatric AIDS cases by year of diagnosis – 19 European countries*.

Tab. 5. Cumulative AIDS cases by transmission group, reported by 31st December 1990, 31 European countries*.

Transmission group	Adults/adolescents		Paediatric cases **		Total	
	N	%	N	%	N	%
Homo/bisexual	20948	46,2	–		20948	44,1
IV drug user	14808	32,6	–		14808	31,2
Homo/bisexual IV drug user	905	2,0	–		905	1,9
Haemophiliac/ coag. disorder	1241	2,7	113	5,3	1354	2,9
Transfusion recipient	1410	3,1	512	24,2	1922	4,0
Heterosexual	3942	8,7	–		3942	8,3
Mother-to-Child	–		816	38,5	816	1,7
Other/unknown	2107	4,6	679	32,0	2786	5,9
Total	45361	100,0	2120	100,0	47481	100,0
Percentage	95,5%		4,5%		100,0%	

* See Table 2 for the list of countries.

** Children under 13 years of age.

Tab. 6. AIDS cases (C) and related deaths* (D) by half-year of diagnosis and transmission group, reported by 31st December 1990, 31 European countries #.

Half-year of diagnosis	Homo/Bi-sexual		IV Drug user		Homo/Bi-IVDU		Haemo/coagul.		Transfus. recipient		Hetero-sexual		Mother-Child		Other/Unknown		Total	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
<1981	8	7	0	0	0	0	0	0	0	0	5	4	1	1	4	4	18	16
1981: i	3	2	1	1	0	0	0	0	1	1	2	2	0	0	4	2	11	8
1981: ii	10	8	0	0	0	0	0	0	1	1	6	5	0	0	1	1	18	15
1982: i	21	18	1	1	1	1	2	2	3	3	7	7	0	0	3	2	38	34
1982: ii	28	23	1	1	2	2	2	2	4	2	13	9	2	1	2	1	54	41
1983: i	69	51	3	2	7	6	6	6	1	1	29	24	5	3	5	4	125	97
1983: ii	107	89	3	2	2	2	11	11	9	6	33	27	3	1	2	2	170	140
1984: i	182	156	14	11	3	2	16	15	6	5	32	22	8	7	11	10	272	228
1984: ii	275	221	32	27	11	9	18	15	17	15	53	41	14	11	23	17	443	356
1985: i	483	369	87	72	20	17	31	24	19	14	66	48	16	8	20	17	742	569
1985: ii	635	485	183	143	35	27	50	43	36	20	83	58	27	18	36	28	1085	822
1986: i	937	719	308	230	49	36	73	69	48	32	96	65	37	24	49	36	1597	1211
1986: ii	1160	864	454	316	59	36	92	77	99	70	151	105	43	21	70	52	2128	1541
1987: i	1578	1083	762	491	61	45	117	90	158	119	205	132	72	37	109	77	3062	2074
1987: ii	1881	1183	1060	656	89	50	117	85	155	109	271	151	67	26	149	94	3789	2354
1988: i	2228	1258	1614	827	81	44	157	91	175	114	366	202	111	46	177	106	4909	2688
1988: ii	2238	1098	1873	876	89	46	147	81	175	119	394	201	84	33	242	124	5242	2578
1989: i	2493	1006	2269	830	115	45	163	65	197	100	525	230	83	37	315	163	6160	2476
1989: ii	2605	816	2263	654	125	39	171	55	283	143	582	210	99	26	366	149	6494	2092
1990: i	2334	480	2351	488	101	21	108	38	345	125	593	118	89	37	688	215	6609	1522
1990: ii	1542	170	1298	183	53	6	61	14	185	42	399	55	53	11	492	85	4083	566
Unknown	131	85	231	53	2	2	12	8	5	3	31	13	2	0	18	7	432	171
Total	20948	10191	14808	5864	905	436	1354	791	1922	1044	3942	1729	816	348	2786	1196	47481	21599
Fatality rate **	48,6%		39,6%		48,2%		58,4%		54,3%		43,9%		42,6%		42,9%		45,5%	

See Table 2 for the list of countries.

* Data on deaths: Netherlands: data not available; Greece: December 1989 data.

** Due to under-reporting of deaths, case fatality rates are lower than the true values.

i: Janvier; ii: Juillet.

Tab. 7. Cumulative AIDS cases by country and transmission group, reported by 31st December 1990, 31 European countries.

Country	Homo/Bi-sexual		IV Drug user		Homo/Bi-IVDU		Haemo/coag.		Transfus. recip.		Hetero sexual		Mother-Child		Other/Unknown		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	
Albania	0		0		0		0		0		0		0		0		0
Austria	222	44	141	28	4	1	32	6	13	3	38	8	10	2	42	8	502
Belgium	298	36	31	4	6	1	4	0	64	8	354	43	45	5	22	3	824
Bulgaria	1	11	0	0	0	0	0	0	1	11	6	67	0	0	1	11	9
Czechoslovakia	20	83	0	0	0	0	1	4	0	0	0	0	0	0	3	13	24
Denmark	545	76	32	4	9	1	17	2	13	2	62	9	9	1	31	4	718
Finland	61	81	1	1	0	0	0	0	3	4	9	12	0	0	1	1	75
France	6922	53	2571	20	244	2	198	2	803	6	1439	11	210	2	758	6	13145
Germany, F.R.	3925	70	705	13	49	1	263	5	114	2	205	4	34	1	317	6	5612
Greece	205	50	14	3	3	1	39	9	30	7	89	22	5	1	27	7	412
Hungary	32	67	0	0	0	0	7	15	5	10	3	6	0	0	1	2	48
Iceland	14	88	0	0	0	0	0	0	2	13	0	0	0	0	0	0	16
Ireland	70	39	64	36	7	4	17	9	0	0	10	6	7	4	4	2	179
Israel	67	48	16	11	7	5	22	16	6	4	12	9	2	1	9	6	141
Italy	1275	15	5424	66	219	3	119	1	129	2	514	6	184	2	363	4	8227
Luxembourg	20	61	5	15	0	0	2	6	1	3	2	6	0	0	3	9	33
Malta	5	33	0	0	0	0	8	53	0	0	1	7	0	0	1	7	15
Monaco	4	80	0	0	0	0	0	0	0	0	1	20	0	0	0	0	5
Netherlands	1223	80	116	8	19	1	21	1	28	2	88	6	7	0	29	2	1531
Norway	130	67	16	8	3	2	7	4	11	6	24	12	1	1	3	2	195
Poland	33	66	11	22	0	0	0	0	0	0	6	12	0	0	0	0	50
Portugal	263	46	66	12	7	1	24	4	27	5	156	27	5	1	25	4	573
Romania	8	1	0	0	0	0	8	1	433	37	51	4	36	3	632	54	1168
San Marino	0	0	1	100	0	0	0	0	0	0	0	0	0	0	0	0	1
Spain	1227	16	4781	64	231	3	268	4	96	1	319	4	190	3	377	5	7489
Sweden	366	72	17	3	4	1	24	5	33	6	59	12	4	1	3	1	510
Switzerland	729	45	560	35	31	2	13	1	23	1	194	12	28	2	37	2	1615
Turkey	8	18	8	18	1	2	4	9	9	20	7	16	0	0	7	16	44
United Kingdom	3234	79	161	4	61	1	228	6	67	2	268	7	36	1	43	1	4098
USSR	4	8	0	0	0	0	0	0	3	6	4	8	1	2	36	75	48
Yugoslavia	37	21	67	39	0	0	28	16	8	5	21	12	2	1	11	6	174
Total	20948	44%	14808	31%	905	2%	1354	3%	1922	4%	3942	8%	816	2%	2786	6%	47481

Tab. 8. Cumulative AIDS cases in adults/adolescents by transmission group and sex, reported by 31st December 1990, 31 European countries*.

Transmission group	Male		Female		Total	
	N	%	N	%	N	%
Homo/bisexual	20943	53,1	5**	0,1	20948	46,2
IV drug user	11484	29,1	3324	55,9	14808	32,6
Homo/bisexual IV drug user	904	2,3	1		905	2,0
Haemophilic/ coag. disorder	1220	3,1	21	0,4	1241	2,7
Transfusion recipient	775	2,0	635	10,7	1410	3,1
Heterosexual	2290	5,8	1652	27,8	3942	8,7
Other/unknown	1794	4,6	313	5,3	2107	4,6
Total	39410	100,0	5951	100,0	45361	100,0
Percentage	86,9%		13,1%		100,0%	

* See Table 2 for the list of countries.

** Transexual subjects.

Male: Female sex ratio = 6.6:1.

Tab. 9. Cumulative paediatric AIDS cases* by country and transmission group, reported by 31st December 1990, 31 European countries**.

Country	Transmission group						Total
	Mother-Child			Haemo- philiac	Transfusion recipient	Other/ Unknown #	
	IVDU	Hetero	Oth/Unk				
Austria	8	0	2	1	2	0	13
Belgium	0	43	2	2	7	5	59
Denmark	2	7	0	0	0	0	9
France	83	113	14	19	35	7	271
Germany, F.R.	21	6	7	6	8	0	48
Greece	0	0	5	4	3	0	12
Ireland	5	2	0	0	0	0	7
Israel	0	1	1	0	0	0	2
Italy	115	61	8	12	6	2	204
Netherlands	2	2	3	0	7	1	15
Norway	1	0	0	0	0	0	1
Portugal	0	2	3	3	2	0	10
Romania	0	18	18	6	422	630	1094
Spain	113	31	46	39	11	7	247
Sweden	0	4	0	1	1	0	6
Switzerland	0	0	28	0	0	0	28
Turkey	0	0	0	1	1	0	2
United Kingdom	6	18	12	16	6	0	58
USSR	0	1	0	0	0	27	28
Yugoslavia	2	0	0	3	1	0	6
Total	358	309	149	113	512	679	2120

* Children under 13 years of age.

Hetero: Heterosexual contact Oth/Unk: Other/Unknown

** No paediatric cases were reported in:

Albania, Bulgaria, Czechoslovakia, Finland, Hungary, Iceland, Luxemburg, Malta, Monaco, Poland, San Marino.

Includes cases infected by multiple injections.

Tab. 10. Cumulative paediatric AIDS cases* by transmission group and sex, reported by 31st December 1990, 31 European countries**.

Transmission group	Male		Female		Total	
	N	%	N	%	N	%
Mother-to-Child						
Mother's risk factor:						
– IV drug user	179	14,9	179	19,5	358	16,9
– Heterosexual contact	172	14,3	137	15,0	309	14,6
– Other/Unknown	69	5,7	80	8,7	149	7,0
Haemophiliac/coagulation disorder	110	9,1	3	0,3	113	5,3
Transfusion recipient	291	24,2	221	24,1	512	24,2
Other/Unknown	383	31,8	296	32,3	679	32,0
Total	1204	100,0	916	100,0	2120	100,0
Percentage	56,8%		43,2%		100,0%	

* Children under 13 years of age.

** At least one paediatric case was reported by each of the following countries: Austria, Belgium, Denmark, France, Germany F. R., Greece, Ireland, Israel, Italy, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Switzerland, Turkey, United Kingdom, USSR, Yugoslavia.

Includes cases infected by multiple injections.

Tab. 11. Paediatric AIDS cases* by country and year of diagnosis, reported by 19 European countries – ENAADS **: 31st December 1990.

Country	Year of diagnosis									Unknown	Total
	1982	1983	1984	1985	1986	1987	1988	1989	1990		
Austria	0	0	1	1	0	1	3	3	4	0	13
France	0	4	12	20	27	73	65	52	18	0	271
Germany, F.R.	0	0	2	9	14	10	5	6	2	0	48
Israel	0	0	0	0	0	0	0	1	1	0	2
Italy	0	0	5	10	25	29	51	43	41	0	204
Netherlands	1	2	0	0	2	3	3	2	3	0	16
Portugal	0	0	0	0	1	4	1	2	2	0	10
Spain	1	2	5	9	22	26	59	35	0	6	165 [#]
Sweden	0	0	0	1	0	1	2	1	1	0	6
Switzerland	0	0	0	2	5	5	4	9	3	0	28
Turkey	0	0	0	0	0	1	1	0	0	0	2
United Kingdom	1	3	0	4	6	10	9	11	9	0	53
USSR	0	0	0	0	0	0	1	15	12	0	28
Yugoslavia	0	0	0	0	1	0	0	1	4	0	6
Total	3	11	25	56	103	163	204	181	100	6	852

* Children under 13 years of age.

** Among the 19 countries participating in the European Non-Aggregate AIDS Data Set (ENAADS), no paediatric cases were reported in: Czechoslovakia, Hungary, Iceland, Monaco, Poland.

March 1990 data.

The distribution of cases by transmission category is shown in Tables 5 to 8.

Among the adults/adolescents, the increase in IVDU cases remains the main characteristic in 1990. Most countries with a high number of AIDS cases among IVDU are situated within a southern geographical belt extending from Spain through southern France, Italy, Switzerland and Austria to Yugoslavia. In the nordic countries (Denmark, Finland, Iceland, Norway and Sweden), which have strong cultural and historical ties, the AIDS data show similar patterns in that the number of AIDS

cases among IVDUs is still quite low and represents a small percentage of the total (0–8%), whereas homo/bisexual males account for the majority of the AIDS cases (67–88%).

In Europe as a whole, the percentage of cases diagnosed in the heterosexual contact group continues to increase steadily (1987 – 6.9%, 1988 – 7.4%, 1989 – 8.7%, 1990 – 9.3%), despite the presence of an increasingly large number of IV drug users in the denominators used to calculate these percentages. Among the paediatric cases (Tables 9 and 10), 85.7% (1816/2120) were reported in France, Italy,

Romania and Spain. Mother-to-child transmission accounted for 38.5% (816/2120), transfusion recipients 24% (512/2120), haemophiliacs 5% (113/2120) and other or unknown transmission groups 32% (679/2120). Over 90% (630/679) of the cases in the latter group were reported from Romania.

The distribution of paediatric cases by year of diagnosis is available only through the European Non-Aggregate AIDS Data Set (ENAADS). Data from nineteen countries are currently included in the December 1990 version. For the 14 countries having reported paediatric cases, trends by transmission group and by country are shown in Figure 3 and Table 11 respectively.

Conclusion

By 31st December 1990, 47 481 cases had been reported. This represents an increase of 50.7% (15 984 new cases) since December 1989. Overall, in 1990, the increase in IVDU cases remains the main characteristic. Nevertheless, a regular increase in the percentage of cases infected by heterosexual contact is noted in practically all countries in the region. By the end of 1990, AIDS had caused over 20 000 deaths in Europe.

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