DISORDERS.

Type of contact

Sexual

Non-sexual

(5).

1880

(+)/Total

12/56 (21%)

0/71 (0%)

0/18 (0%)

3/21 (14%) 0/7

(0%)

1/1

1881

RISK FACTORS FOR AIDS AND ARC IN MULTITRANSFUSED HAEMOPHILIACS: RISK FACTORS FOR ALDS AND ARC IN MULTITRANSFUSED HAEMOPHILIACS: ASSOCIATION OF A WEAK GAG P 18 IN WESTERN BLOT (WB) AND IMMUNE THROMBOCYTOPENIA? M. Kos (1), F. X. Hainz (2), I. Assmann (3), M. Kundi (2), I. Pabinger (1), S. Panzer (1), Ch. Korninger (1), Ch. Kunz (2), K. Lechner (1). 1st Dpt. of Medicine, University of Vienna, Austria (1), Institute for Environmental Health, Univ. of Vienna (2), 1st Dpt. of Dermatology, Univ. of Vienna (3). Vienna (3).

Lymphocyte subsets, platelet counts, immune globulin levels and antibody to HIV (Elisa, WB) were determined in 87 multitransfused asymptomatic haemophiliacs in 1982/83. Between 1982 and 1987 6 patients developed AIDS and 5 ARC (3 immune Iso and 1907's patients developed AIDS and 5 ARC (3 immune thrombocytopenia and 2 lymphadenopathy). AIDS or ARC developed in seropositive patients only (11/49). Patients who subsequently developed AIDS or ARC showed significantly lower numbers of T helper lymphocytes (378/mm³ versus 605/mm³; p 0.01), lower platelet counts (157x10²/l versus 194x10⁹/l; p 0.05) and higher levels of IgG (2528 mg/dl versus 1992 mg/dl; p 0.01). AIDS or ARC occured in 4 of 7 patients (57.18) mg/dl; p 0.01). AIDS or ARC occurred in 4 of 7 patients (57.1%) with a low HIV antibody level (2000), but only in 7 of 42 (16.6%) with a high level of antibody to HIV (2000). A weak gag p 24 in WB was found in 4 of 11 patients (36.3%) who subsequently acquired AIDS or ARC, while none of the patients who remained asymptomatic displayed this reactivity pattern in WB. 9 patients showed a weak gag p 18 in WB. 8 of them (88.8%) have platelet counts below 120×10^{-7} , 3 developed immune thrombocytopenia with platelet counts of less than 50×10^{-9} counts below this reactivity pattern in Only 6 of 40 patients (15%) without this reactivity pattern in Only 6 of 40 patients (15%) without this reactivity pattern in WB have platelet counts lower than 120×10^{9} /l and none below 50×10^{9} /l. We conclude that a weak gag p 24 in WB has a strong positive predictive power for the development of AIDS or ARC in possibly be associated with the occurence of immune thrombocytopenia in these patients.

1882

HIV STATUS, T CELL SUBSETS, BLOOD PRODUCT USE, AND HEMATOLOGIC ABNORMALITIES IN CONGENITAL COAGULATION DISORDERS (CCD). J.M. Lusher (1), L.M. Aledort (2), S. Sarnaik (1), J. Mosley (3), and the Transfusion Safety Study Group (4). Wayne State Univ., Detroit, MI (1), Mt. Sinai School of Medicine, New York, NY (2), Univ. So. California, Los Angeles, CA (3) and other participating institutions, U.S.A. (4).

TRANSMISSION OF HUMAN IMMUNODEFICIENCY VIRUS INFECTION TO

HOUSEHOLD CONTACTS OF PERSONS WITH CONGENITAL HEMATOLOGIC

(3), J. Mosley (4), E. Operskalski (4), and the Transfusion Safety Study Group (5). Wayne State University, Detroit, MI (1), Mt. Sinai School of Medicine, New York, NY (2), Cornell University, New York, NY (3), Univ. So. California, Los Angeles, CA (4), and other participating institutions, U.S.A.

The Transfusion Safety Study is collecting data concerning the transmission of transfusion-acquired infections from patients with congenital hematologic disorders to household

members. Of 233 patients for whom information is presently available, 128 (55%) were anti-HIV-positive. The 128 positive patients lived in 123 households with 174 members; 16 contacts

Relationship

Heterosexual

Homosexual

Offspring

These data provide further evidence of relatively high risk of

HIV infection of sexual contacts. The three anti-HIV-positive children are all infants born to anti-HIV-positive wives of infected hemophiliacs. Passively acquired antibody has not been excluded for two; the third was positive at ten months

of age. Thus, vertical transmission may be a very important

Parent Sibling

Other

mechanism of perpetuating the HIV reservoir.

were positive by EIA and immunoblot.

J.M. Lusher (1), L.M. Aledort (2), M. Hiltgartner

Data are presented on 485 subjects with CCD treated with blood products at entry into a cooperative study of blood product safety, 376 subjects had hemophilia A, 86 had hemo-philia B, and 23 had von Willebrand's disease (vWD). Anti-HIV was detected in a total of 323 (66.7%) subjects. Of those treated with pooled product 303/397 (76.4%) had anti-HIV; of these, 256/316 (81%) had hemo. A, 44/76 (57.9%) had hemo. B, and 3/5 (60%) had vWD. Of those treated with unpooled products 20/88 (22.7%) had anti-HIV; of these 17/60 (28.3%) had hemo. A; 0 of 10 had hemo. B, and 3/18 (16.6%) had vWD. The percent of T4 cells in all groups studied were signifi-cantly lower in anti-HIV (+) as compared to anti-HIV (-) patients (26% vs 42%) (p=0.0001). T4/T8 ratios demonstrated significant differences in all groups treated (p=0.001) when comparing anti-HIV (+) with anti-HIV (-). However, F VIII concentrate recipients who are anti-HIV (-) have significantly lower T4/T8 when compared to controls (p=0.0001) and single pooled F VIII deficient recipient patients (p=0.0264). Mean polatelet counts, WBC, ALC, and Hgb were all significantly lower in anti-HIV (+) subjects (p $\langle .001, =.0002, =.002$, and =.02). A significantly higher % of anti-HIV (+) subjects had abnormally low WBC, ALC and platelet counts (table). In summary, anti-HIV (+) and lower T4/T8 ratios were related to type of blood product used, being seen significantly less frequently in patients receiving only unpooled product. Thrombopenia, leucopenia, and lymphopenia were seen more frequently in anti-HIV (+) patients.

Status		WBC		ALC		Plts	
		(4500	> 4500	(1000)1000	(150k	>150k
Anti-HIV (-)	13	133	5	140	9	136
		(9%)	(91%)	(3%)	(97%)	(6%)	(94%)
Anti-HIV (+)	107	186	46	246	52	240
		(37%)	(63%)	(16%)	(84%)	(18%)	(82%)
p value		p= (0.0001		p ≂≤ 0.0001		p=0.001	

PROGRESSION OF HIV INFECTION IN THE POPULATION OF FRENCH HEMO-PHILIACS. Y. Sultan (1) and the French Study Group on Hemophilia. Centre d'Acceuil et de Traitement des Hémophiles, Hôpital Cochin, Paris, France (1).

A national inquiry including 28 hemophilia centers was carried out in France in order to appreciate the epidemiology of HIV out in France in order to appreciate the epidemiology of HIV infection among hemophilic patients. Information about 1781 patients was obtained with an overall prevalence of 50% sero-positive patients. This percentage of HIV seropositivity was unchanged in comparison with 1985 confirming that no serocon-version was observed since the use of heat treated products for bleeding episodes. It is to be noted that there is an im-content programmer of AUS which impreced for portant progression in the number of AIDS which increased from If herophilics last year to 23 this year with a total of 11 deaths against 7 last year related to this affection. In the remaining hemophilic population, twenty per cent of HIV positive patients have developed an ARC. For the biological abnormalities related to immune deficiency, it was found that patients with lymphopenia less than 1000 lymphocytes had not progressed and represent 23 patients. Patients with thrombocytopenia less than 150,000 platelets had increased from 29 to 62. Patients with a number of T4 lymphocytes subset less than 400 had increased from 54 to 110. 22% of HIV positive hemophiliacs had a T4/T8 ratio less than 1 in 1986 in comparison with 11% in 1985. 17.5% of HIV positive population showed an elevated level of gamma-globulins above 20 g/liter of plasma against 12.5% last year. The conclusion of the present study is that HIV infection has progressed in severity from 1985 to 1986 in the population of multitransfused HIV positive French hemophiliacs.

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