

Table 2.6. Studies of HTLV-1 and cutaneous T-cell lymphoma (CTCL)

Reference, study location, year(s) of study	Cases and testing methodology	Results			Comments	
Wood et al. (1996) (United States)	Lesional skin from 42 American patients with cutaneous T-cell lymphoma tested by: (1) PCR to HTLV pX (7 of 42), pol (3 of 42) and env (2 of 37) gene probes; (2) UV light incorporated into standard PCR analysis; and (3) PCR/UV light/Southern blot analysis.	No. pos/No. tumours PCR 12/121	PCR + UV Light 3/121	PCR + UV + Southern Blot 0/28	HTLV-1 not involved in CTCL from USA	
Wood et al. (1997) (Switzerland, United States, and Japan)	35 cases of CTCL (14 lymphoid papulosis, 12 Hodgkin disease, 9 CD30+ large-cell lymphoma) obtained from Ohio, California, Switzerland, and Japan; analysed with HTLV-1 pX PCR, dot blot, and Southern blot analysis				No direct role for HTLV-1 in the pathogenesis of CTCL-associated lymphoproliferative disorders	
		PCR for pX	Dot Blot	Southern Blot		
	Lymphomatoid papulosis	0/14	0/5	ND		
	Hodgkin's disease	0/12	0/10	0/10		
	Large-cell lymphoma	0/9	0/4	ND		
Kim et al. (1998) (Korea)	43 Korean patients with CTCL; PCR for HTLV-1 gag, pol, env and tax genes.	CTCL cases	PCR positive 0/43		HTLV-1 not associated with CTCL in Korea.	
Kikuchi et al. (1997b) (Japan)	Two Japanese HTLV-1 seropositive CTCL patients; PCR for HTLV-1 gag, pol, env and tax genes, also Southern blot on tumour specimens	2 cases CTCL	PCR on skin 2/2	Southern blot 0/2	In HTLV-1 endemic areas, some CTCL cases will be infected with HTLV-1, but lack of integration in tumour is evidence against etiological role	
Kikuchi et al.	Skin, PBMC and T-cell clone samples from		PCR on skin	PCR on PBMC	PCR T-cell	In contrast to previous case

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(1997a) (Japan)	each of 50 Japanese CTCL patients; tested by PCR to HTLV-1 gag, pol, env and pX genes.	50 CTCL cases	0/50	0/44	clones 0/34	report of two patients by same author, none of 50 Japanese CTCL had evidence of HTLV-1 infection.
Bazarbachi et al. (1997) (Europe and USA)	127 patients with CTCL, (85 Mycosis Fungoides, 28 Sezary syndrome, 5 Sezary cell leukaemia, 4 lymphotropic papulosis, 5 unspecified CTCL) tested for antibody by EIA and Western blot and by PCR.		HTLV-I Antibody	PCR+		No evidence of HTLV-I in this large diverse case series
			0/78 *	0/215		
			* 2 were indeterminant			