



 The onset of the disease usually occurs 20–30 years after viral infection and is primarily associated with vertical transmission, mainly through breastfeeding by a seropositive woman.











HTLV-1 establishes lifelong latency in human T cells.
Malignant transformation leading to ATLL occurs in HTLV-1–infected individuals with a cumulative lifetime risk of 4% to 7%.
Incidence is less than 5% in HTLV-1-infected people.











Parameter#	Criterion for ATL subtype			
	Smoldering	Chronic	Lymphoma	Acute
Lymphocyte count (10 ⁹ lymphocytes/liter)	Less than 4	4 or more∉	Less than 4	More than 4
% atypical lymphocytes	5 or more	5 or more	1 or less	More than 5
LDH level	1.5× normal upper limit	2× normal upper limit	_0	_"
Calcium level (mmol/liter)	Less than 2.74	less than 2.74		More than 2.74#
Presence of:				
Lymphadenopathy	No	No	Atypical lymphocyte in histological analysis	-"
Skin lesions	e	#		_0
Pulmonary lesions		_0	-*	-"
Liver lesions	No	_0	_"	_0
Spleen lesions	No		b	
CNS lesions	No	No	_ <i>b</i>	_0
Bone lesions	No	No	_ <i>b</i>	
Ascites	No	No	_"	_0
Pleural effusion	No	No		_"
Gastrointestinal tract lesions	No	No		_#
Ja See referen	ce 89.			
+10 Not essenti	al.			
→Ic Not essenti other items has	al: cases of at /e to be comp	ypical lymph leted, and hi	ocytes are fewer than 5 stological analysis of a	%; lesion



The lymphomatous type often presents with extensive lymphadenopathy and a relative absence of ATLL cells in the peripheral blood (<1%).

• The acute type usually presents with leukemia and high levels of serum lactose dehydrogenase (LDH).

• The smoldering and chronic forms present with $<4 \times 10^9$ or $\ge 4 \times 10^9$ lymphocytes/L in the peripheral blood, respectively; normal or elevated LDH (<1.5 or 1.5-2 times the upper normal value, respectively); involvement of lung, skin, or liver (in chronic only), but no other extranodal sites; and no hypercalcemia.







• These cells are called flower cells and are considered characteristic of ATLL .









 Parasitic infections, especially strongyloidiasis, and fungal infections are frequently associated with all forms of ATLL.







• The rate of survival varies depending on the subtype: 4 to 6 months for the acute type, 9 to 10 months for the lymphomatous type, 17 to 24 months for the chronic type, and 34 months to more than 5 years for the smoldering type.



The major prognostic factors are advanced performance status, high calcium or lactic dehydrogenase (LDH) levels, age of more than 40 years, and more than three involved lesions.

Bone marrow involvement is an independent poor prognostic factor for ATLL.





 In the case of pregnancy, a cesarean section should be recommended, to minimize the risk of perinatal transmission.



