



Nuevo Proyecto del T cell Project: TCP 2.1

MASSIMO FEDERICO, STEFANO LUMINARI, and Co ..
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UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA

Associazione
ANGELA SERRA
per la Ricerca sul Cancro
Sede di Lecce "ITALIA MEMMI FERRARI"

Con el Aval:





Conflict of Interest Disclosure

I hereby declare the following potential conflicts of interest concerning my presentation:

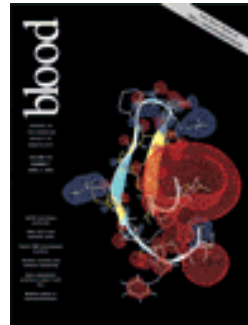
NONE

Peripheral T-cell lymphoma unspecified (PTCL-U): a new prognostic model from a retrospective multicentric clinical study

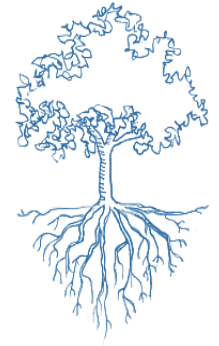
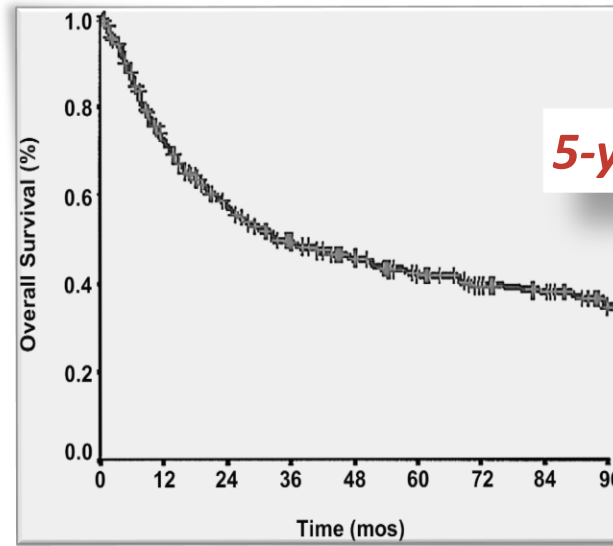
Andrea Gallamini, Caterina Stelitano, Roberta Calvi, Monica Bellei, Daniele Mattei, Umberto Vitolo, Fortunato Morabito, Maurizio Martelli, Ercole Brusamolino, Emilio Iannitto, Francesco Zaja, Sergio Cortelazzo, Luigi Rigacci, Liliana Devizzi, Giuseppe Todeschini, Gino Santini, Maura Brugiattelli, and Massimo Federico, for the Intergruppo Italiano Linfomi



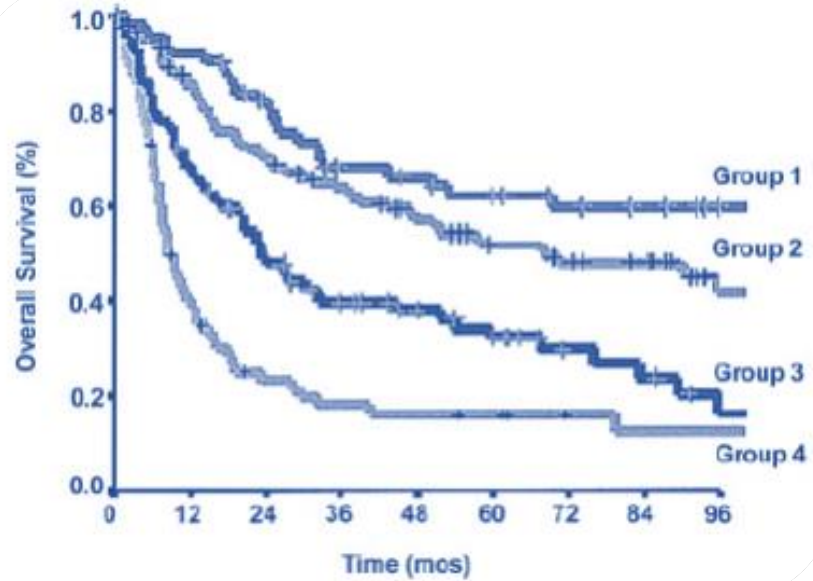
Retrospective studies



103(7), 2004

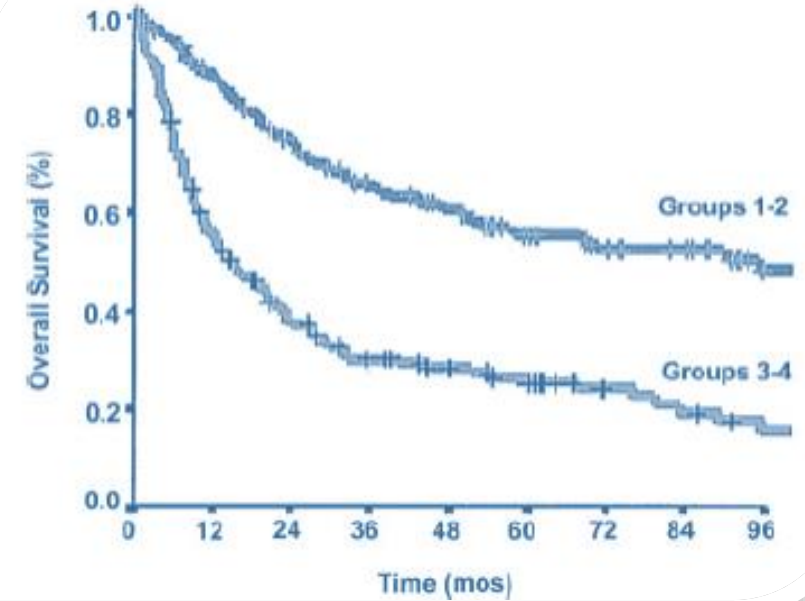


Patients		385	Factors	
Median age		54 yr (15-96)	Age	≤ 60 yrs vs > 60 yrs
Median follow-up		42 mos	ECOG-PS	0-1 vs 2-4
Treatment			LDH	Normal vs Elevated
CHOP/CHOP like	78%		BM biopsy	Negative vs Positive
HDT-ASCT	12%			



PIT

	Risk factors	Pts	
Group 1	0	64	
Group 2	1	108	
Group 3	2	83	
Group 4	3-4	67	<i>P=0.0000</i>
Group 1-2	0-1	182	
Group 3-4	2-4	142	<i>P=0.0000</i>



simplified PIT



International T-cell Project

- 1,314 cases with PTCL or NK/T cell lymphoma
(161 excluded; 1,153 analyzed)
- Newly diagnosed 1990-2002
- 22 sites globally
- Expert Hematopathology review
- Correlation with clinical outcomes



International T-Cell Lymphoma Project

International Peripheral T-Cell and Natural Killer/T-Cell Lymphoma Study: Pathology Findings and Clinical Outcomes

International T-Cell Lymphoma Project

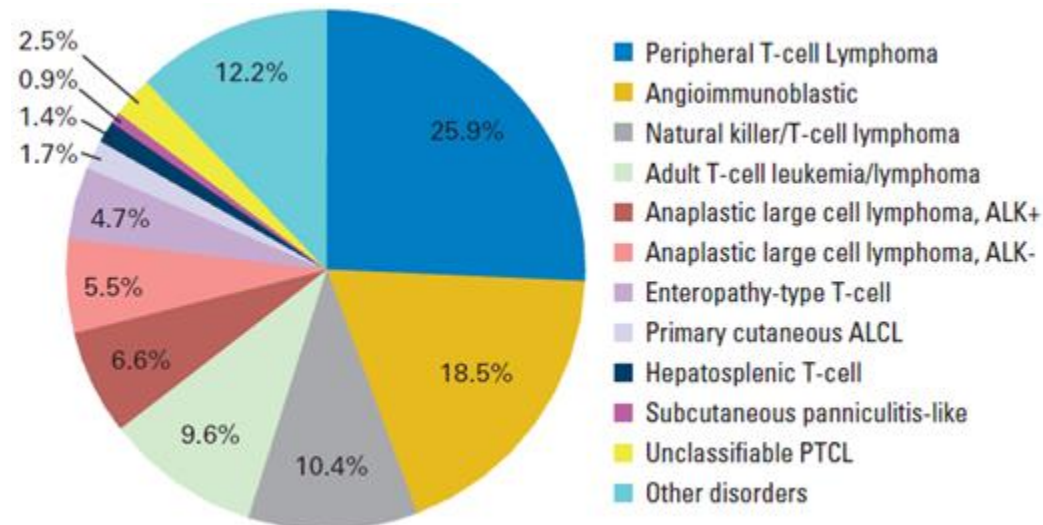


Fig 1. Distribution of 1,314 cases by consensus diagnosis.

Subtypes distribution among regions

Table 1. Major Lymphoma Subtypes by Geographic Region

Subtype	%		
	North America	Europe	Asia
PTCL-NOS	34.4	34.3	22.4
Angioimmunoblastic	16.0	28.7	17.9
ALCL, ALK positive	16.0	6.4	3.2
ALCL, ALK negative	7.8	9.4	2.6
NKTCL	5.1	4.3	22.4
ATLL	2.0	1.0	25.0
Enteropathy-type	5.8	9.1	1.9
Hepatosplenic	3.0	2.3	0.2
Primary cutaneous ALCL	5.4	0.8	0.7
Subcutaneous panniculitis-like	1.3	0.5	1.3
Unclassifiable T-cell	2.3	3.3	2.4

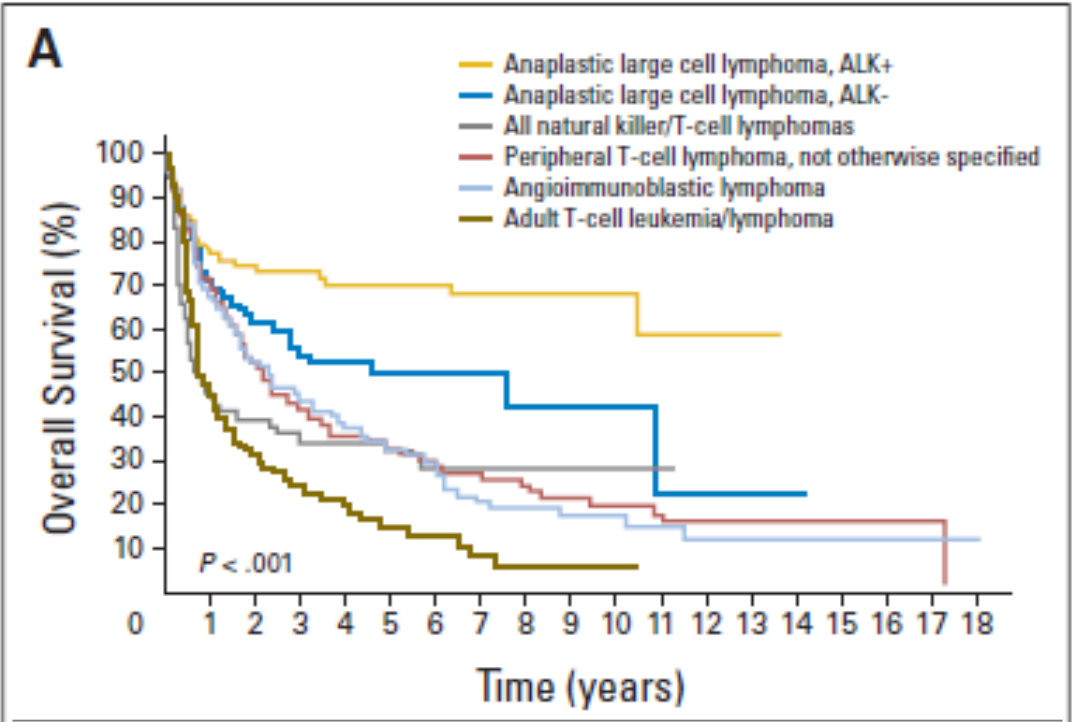
Abbreviations: PTCL, peripheral T-cell lymphoma; NOS, not otherwise specified; ALCL, anaplastic large-cell lymphoma; NKTCL, natural killer/T-cell lymphoma.

Overall survival



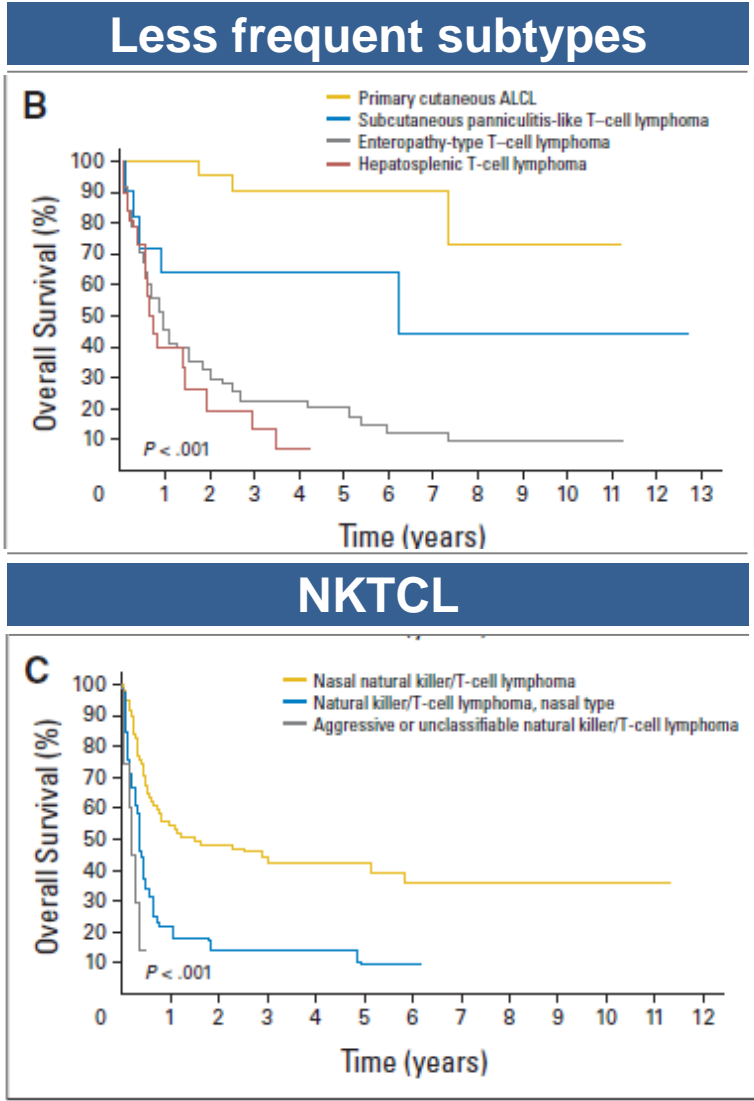
Vose et al.
2008

International T-Cell Lymphoma Project




5-yr OS of most frequent subtypes

ALK+	ALK-	PTCL-	AITL	NKTCL	ATLL
ALCL	ALCL	NOS			
70%	49%	32%	32%	32%	14%



Study start: September 1, 2006



Sponsored by International T-cell Lymphoma Project



Monday, 27 September 2010

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PROSPECTIVE COLLECTION OF DATA IN PATIENTS WITH PERIPHERAL T-CELL LYMPHOMA

Peripheral T-Cell lymphoma unspecified
Angioimmunoblastic T-Cell lymphoma
Extranodal NK/T-Cell lymphoma
Enteropathy-type T-Cell lymphoma
Hepatosplenic gamma-delta T-Cell lymphoma
Subcutaneous panniculitis-like T-Cell lymphoma
Anaplastic large-cell lymphoma, T/null cell, primary systemic type




**Register
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ALLOS
THERAPEUTICS

[Study Protocol Synopsis](#)
(PDF download)




[Agreement Form](#)
(online)

[Agreement Form](#)
(PDF download)





Associazione
Angela Serra

Intergruppo
Italiano Linfomi

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Why a prospective collection of data?

-  to achieve a more controlled and homogeneous collection of data
-  to have a very limited case exclusions
-  to have homogeneity of inclusion criteria

Why a large cooperative study?

-  to achieve a faster accrual
-  to reduce time-dependent biases
-  to limit selection biases



Parameters availability

Index	Cases (N=total)	Cases (N=used)	%	diagnosis year	publication year
IPI	3273	1385	42	1982-87	1993
ILI	987	429	43	1986-96	2000
FLIPI	4167	1795	43	1985-92	2004
FLIPI2	1057	939	89	2003-05	2009



Santiago de Chile

April 5-6, 2016

Auditorio Dr. Lucas Sierra

Hospital del Salvador

Av. Providencia 364

Presidents:

Maria Elena Cabrera

Carlos Sergio Chiattonne

Massimo Federico

Advances in Malignant lymphomas:

**The case of extranodal
and T-cell lymphomas**

***The T-Cell Project: overall
results from the analysis of
the first 1,500 registered
patients***

Massimo Federico

Dept. of Diagnostic, Clinical and Public Health Medicine
Univesrity of Modena and Reggio Emilia



Registrations by Region

Sites

Recruiting

77

1695 Pts

100%

Active, Not Yet Recruiting

7

-

-

*active, not yet recruiting

USA

8 412 24%

MSKCC
MDACC
UNMC
Stanford
CCF
FHCRC
WUSTL
Yale
SKCC*

Middle East

2 38 3%

Sheba Medical Center-Israel Haifa RAMBAM
Sourasky Medical Center-Israel*

Europe

56 7

South America

7 342 20%

Argentina (3)
Brazil (2)
Chile (1)
Uruguay (1)

Asia

2 149 9%

SMC-South Korea
QMH-Hong Kong

Oceania

1 8 <1%

Concord Hospital, Australia



**ACCRUAL
COMPLETED ON
2018**



Investigator Meeting

Montevideo ••• April 12-13, 2018

T-Cell Project

Report on the T-Cell Project

**Massimo Federico
Monica Bellei
Stefano Luminari**

Dipartimento di Medicina Diagnostica, Clinica e
di Sanità Pubblica

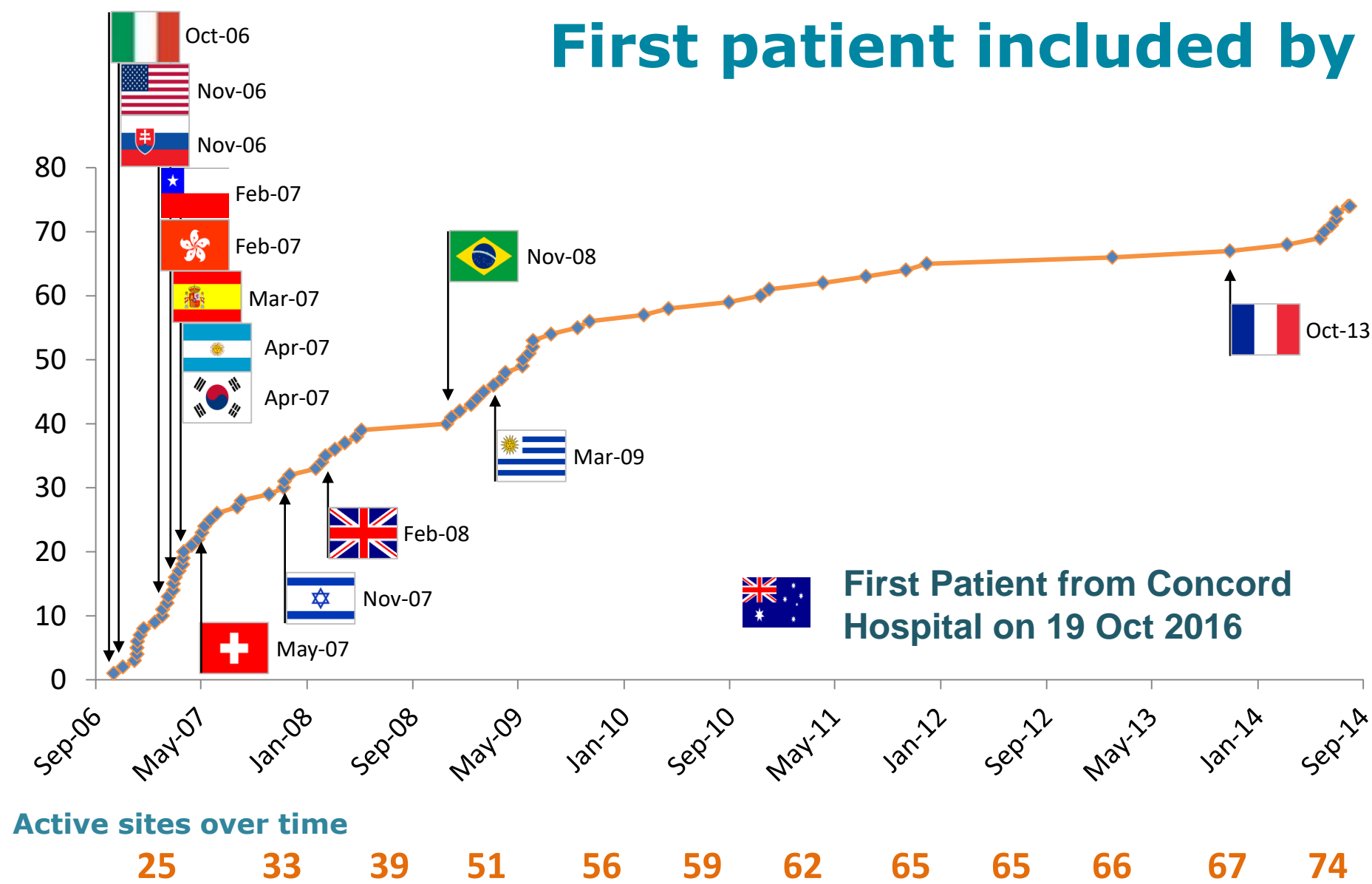
Università di Modena e Reggio Emilia

Status of the T-cell Project

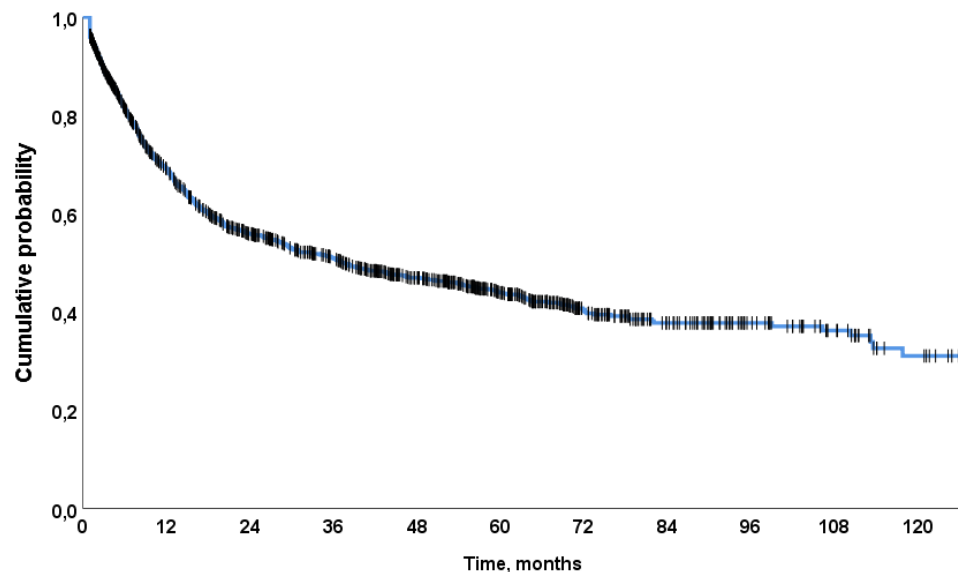
(March 20, 2018)

- ✓ **89 authorized** sites
- ✓ **77 active** sites (*at least 1 Pt in*)
- ✓ **15 active** countries (*at least 1 Pt in*)
- ✓ **5 geographic areas**
 - Europe
 - North America
 - South America
 - Middle/Far East
 - Oceania
- ✓ **1,611 cases** of PTCL or NK/T-cell lymphoma registered



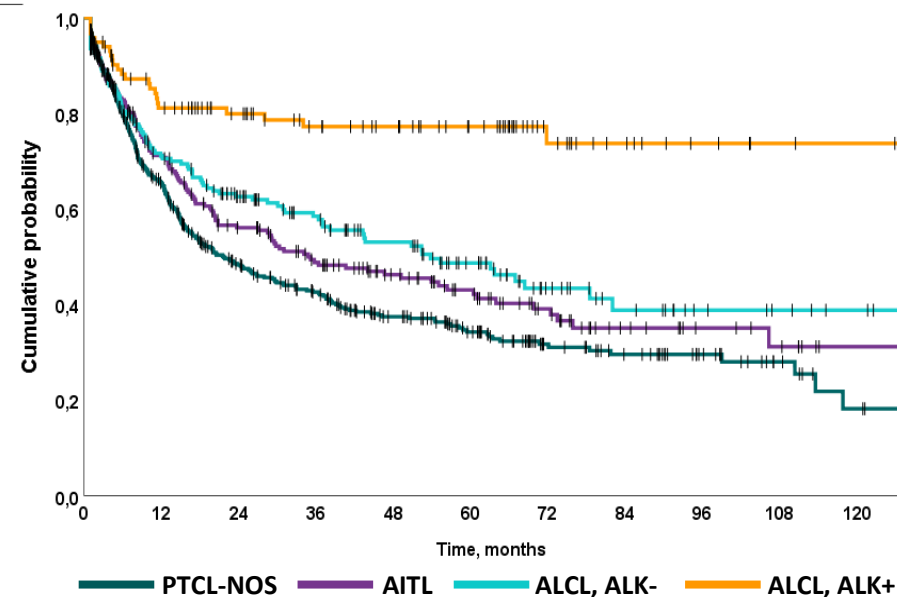


Overall Survival

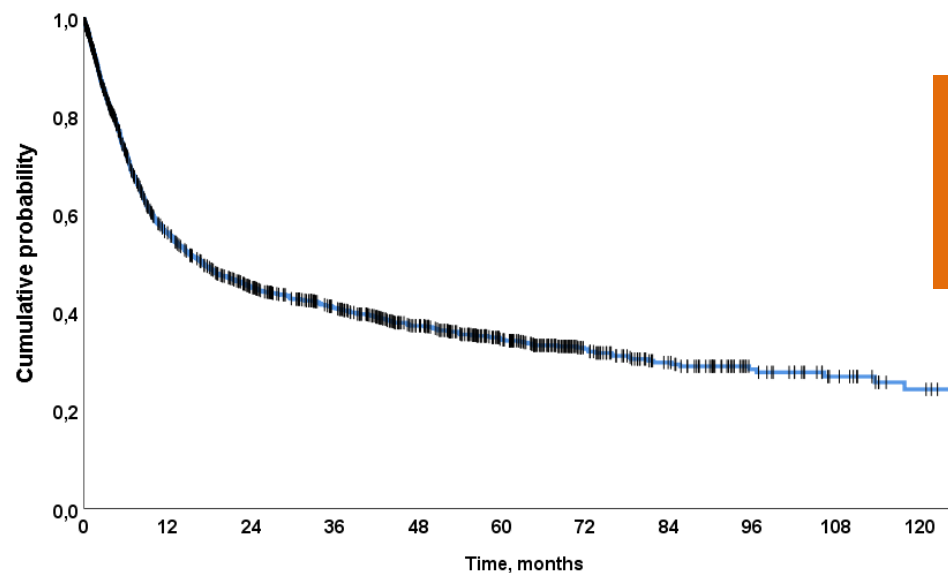


Median follow-up: **43 months**
5-yrs OS: **44%** (95% CI 41-47)
Median OS: **37 months** (95% CI 29-46)
Deaths: 690 (47%)
Main cause of death: Lymphoma (68%)

PTCL: 34% OS at 5 yr
AITL: 42% OS at 5-yr
ALCL – 49% OS at 5-yr
ALCL + 77% OS at 5-yr

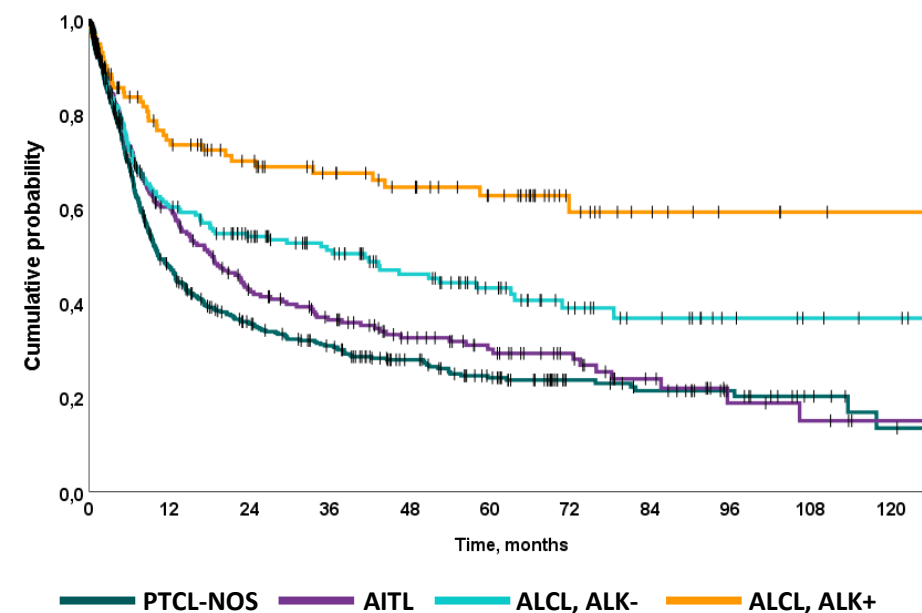


Progression Free Survival



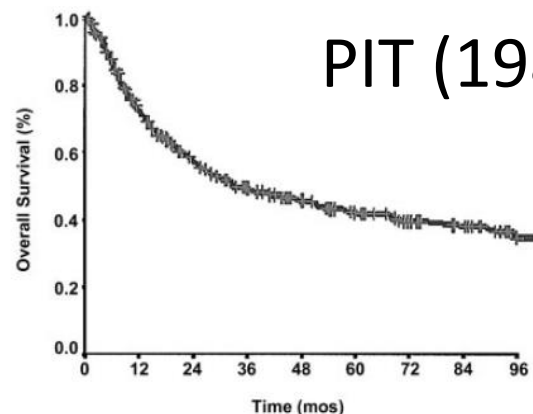
5-yrs PFS: **34%** (95% CI 31-37)
Median PFS: **17 months** (95% CI 14-20)
Events: 813 (**56%**)

PTCL: 24% PFS at 5 yr
AITL: 30% PFS at 5-yr
ALCL – 43% PFS at 5-yr
ALCL + 63% PFS at 5-yr





FIVE YEAR SURVIVAL



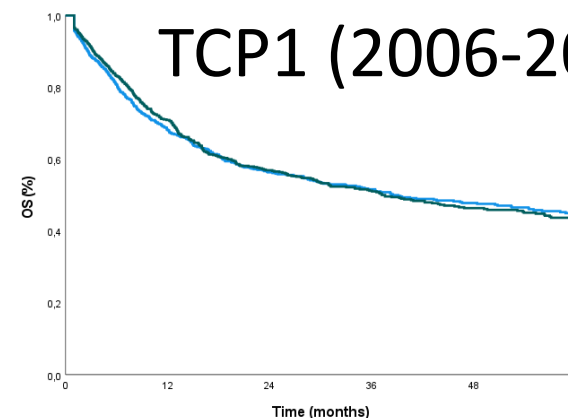
PIT (1989-2001): 43%

Figure 1. OS of 385 PTCL-U patients. Crosses mark censored cases.

ITCLP (1990-2002)

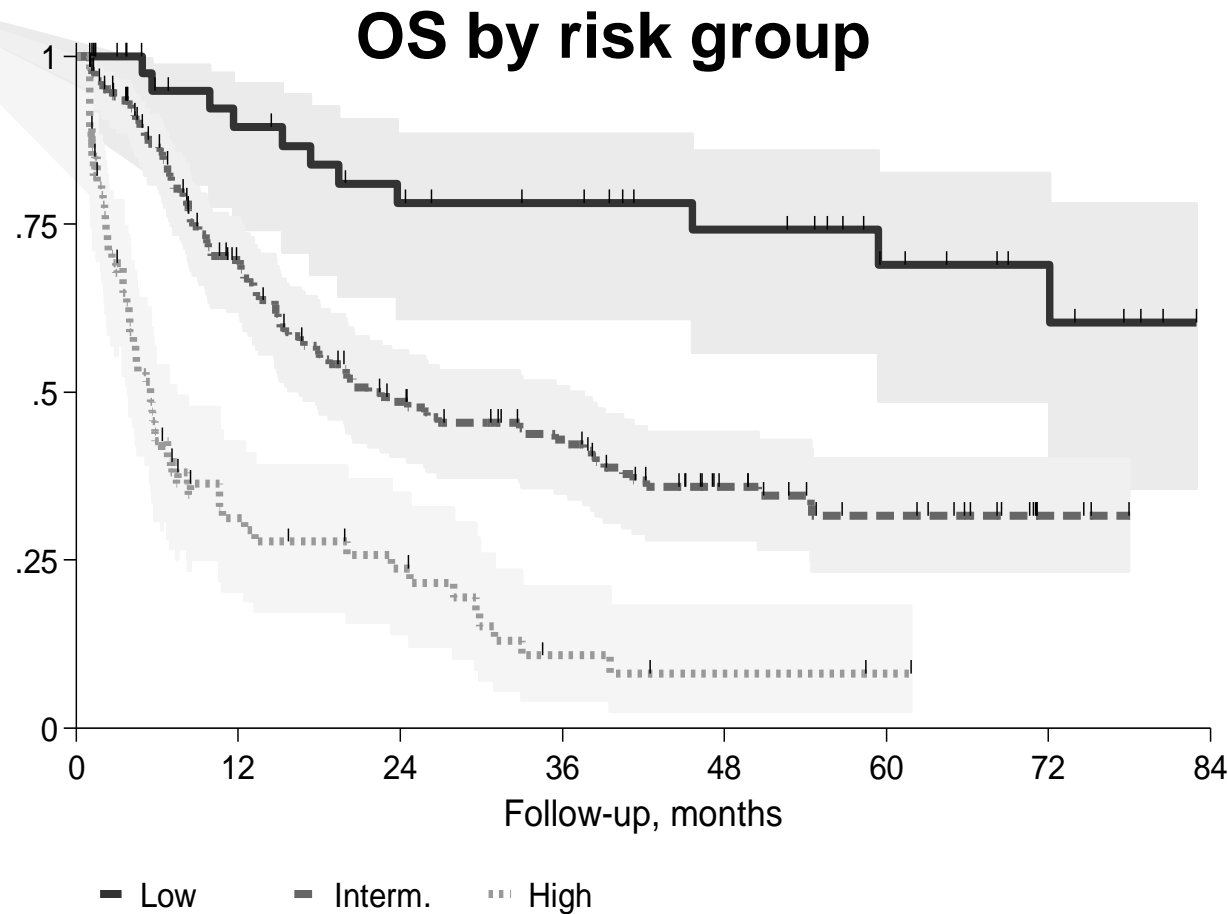
5-yr OS of most frequent subtypes

ALK+	ALK-	PTCL-	AITL	NKTCL	ATLL
ALCL	ALCL	NOS			
70%	49%	32%	32%	32%	14%



TCP1 (2006-2018): 44%

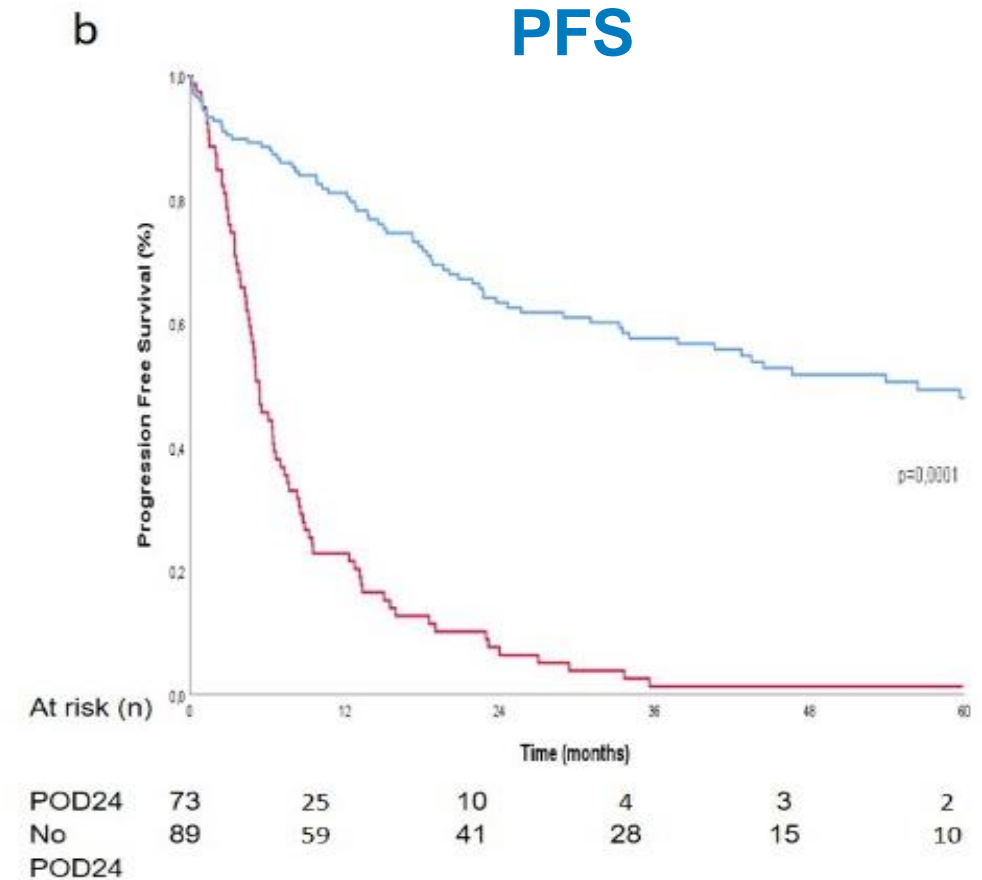
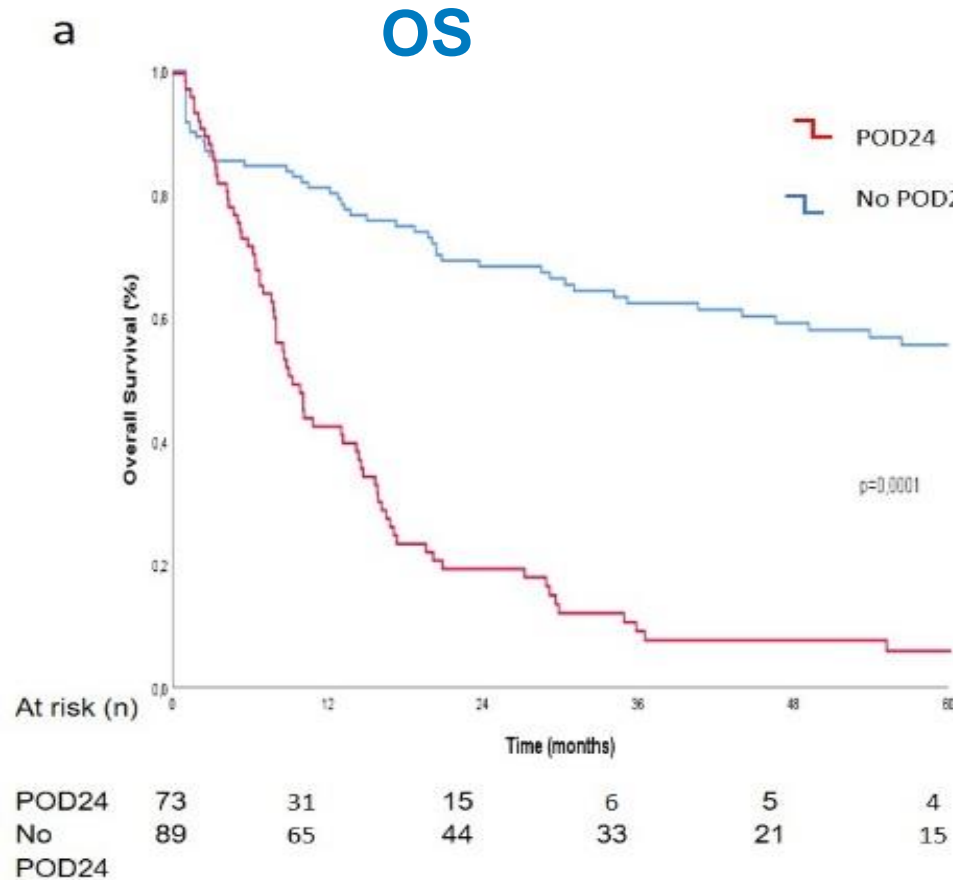
PTCL NOS. A new prognostic model developed by the International T cell Project Network



ECOG PS	0-1
AA STAGE	1-2
Albumin	> 3.5 g
Absolute N Count	< 6,500

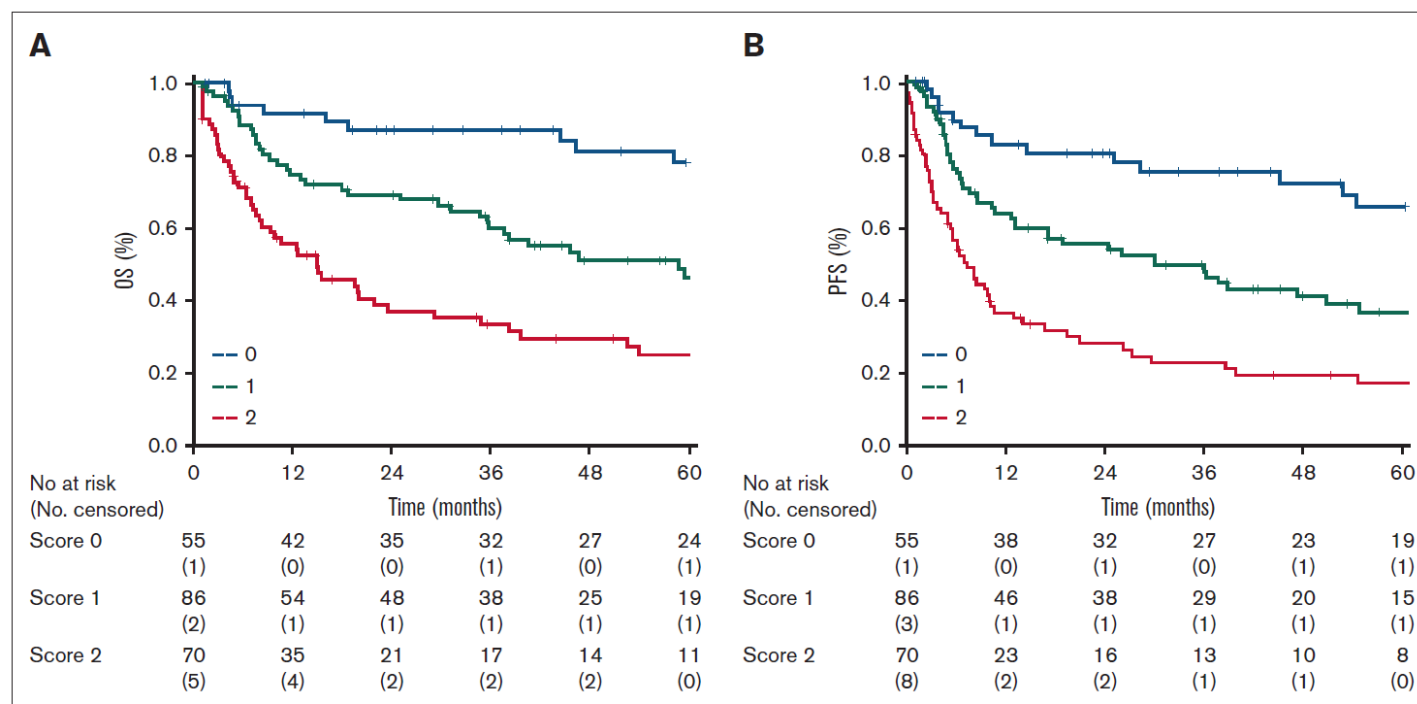
Low Risk	0 factors
Intermediate risk	1-2
High risk	3-4

Treatment of Angioimmunoblastic T-Cell Lymphoma is still an unmet need for most patients: Final Report on 282 cases from the Prospective International T-Cell Lymphoma Project



The SALENTO prognostic model for limited-stage peripheral T-cell lymphoma from the International T-Cell Project Network

Greg Hapgood,¹ Monica Civalero,² Yana Stepanishyna,³ Julie Vose,⁴ Monica Elena Cabrera,⁵ Ranjana H. Advani,⁶ Stefano A. Pileri,⁷ Martina Manni,² Steven M. Horwitz,⁸ Francine M. Foss,⁹ Felicitas Hitz,¹⁰ John Radford,¹¹ Ivan Dlouhy,¹² Carlos Chiatone,¹³ Won Seog Kim,¹⁴ Tetiana Skrypets,¹⁵ Arnon Nagler,¹⁶ Judith Trotman,¹⁷ Stefano Luminari,^{2,18} and Massimo Federico,² on behalf of the International T-Cell Project



Age	> 60
LDH	> UNL
Albumin	< 35 g/L










Low Risk	0 factors
Intermediate risk	1
High risk	2-3

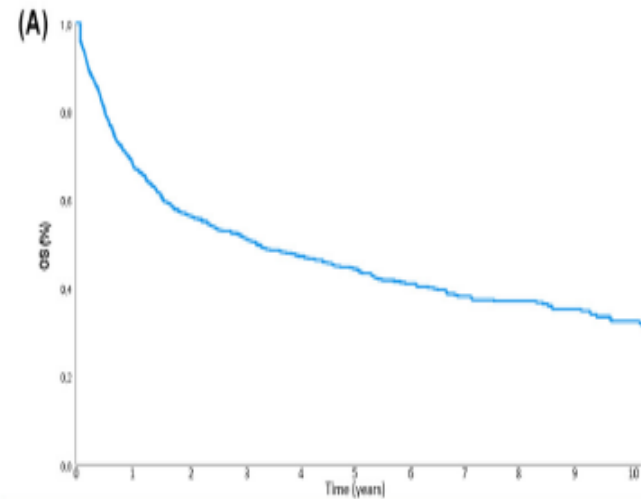
Figure 3. Kaplan-Meier curves. (A) Overall survival and (B) progression free survival by risk groups for all patients in the training sample (score 0 = 55 patients, score 1 = 86 patients, score 2 = 70 patients) identified by the Salento Model.

ORIGINAL PAPER

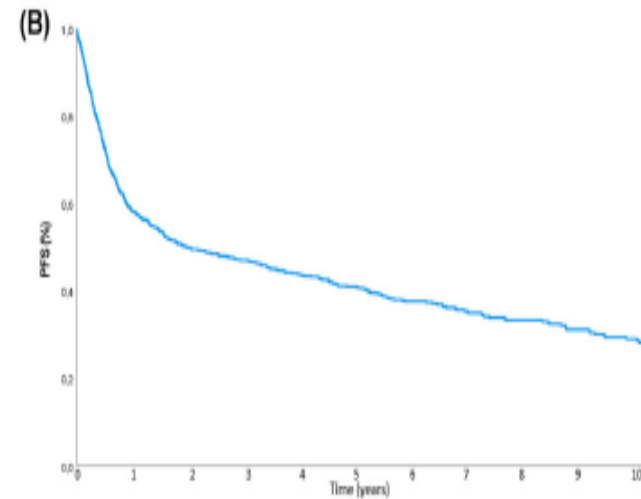
Haematological Malignancy – Clinical

Long-term outcome of peripheral T-cell lymphomas: Ten-year follow-up of the International Prospective T-cell Project

M. Civallero¹ | J. G. Schroers-Martin²  | S. Horwitz³  | M. Manni⁴ |
Y. Stepanishyna⁵  | M. E. Cabrera⁶ | J. Vose⁷ | M. Spina⁸ | F. Hitz⁹ | A. Nagler¹⁰  |
S. Montoto¹¹ | C. Chiattoni¹² | T. Skrypets¹³ | M. A. Perez Saenz¹⁴ | G. Priolo¹⁵ |
S. Luminari¹⁶  | A. Lymboussaki¹ | A. Pavlovsky¹⁷  | D. Marino¹⁸ | M. Liberati¹⁹  |
J. Trotman²⁰  | D. Mannina²¹ | M. Federico¹ | R. Advani² 

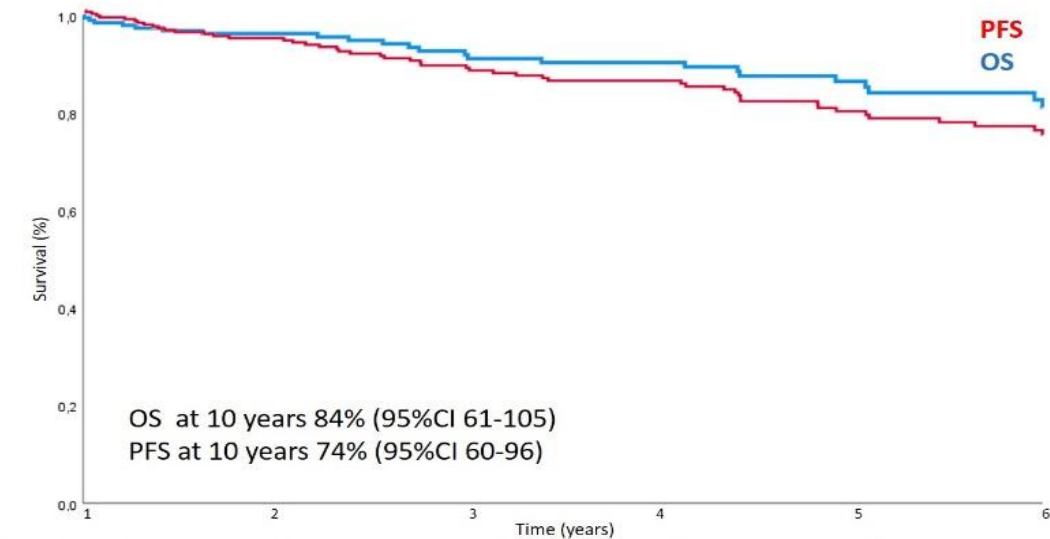


N. at risk										
735	425	311	248	196	147	103	71	51	32	12
(3)	(2)	(1)	(1)	(1)	(1)	(0)	(0)	(1)	(0)	(0)



N. at risk										
735	341	249	204	162	118	82	55	36	24	10
(4)	(1)	(1)	(0)	(0)	(1)	(0)	(0)	(1)	(0)	(0)

Ten-year overall survival and progression-free survival of long-term cohort patients alive and in remission after the initial 5 years



N. at risk	1	2	3	4	5	6
OS	208 (0)	162 (0)	134 (0)	111 (0)	87 (0)	45 (0)
PFS	203 (0)	160 (0)	130 (0)	107 (1)	83 (1)	38 (0)

Investigator Meeting

Montevideo ••• April 12-13, 2018



International T-Cell non-Hodgkin's Lymphoma Study Group

La Carta de Montevideo

Peripheral T-cell non-Hodgkin lymphomas (PTCLs) are a heterogeneous group of rare lymphoproliferative disorders arising from mature T cells of post-thymic origin at different stages of differentiation with different morphological patterns, phenotypes, and clinical presentation. The current 2016 WHO classification for lymphoid neoplasms recognizes more than 20 biologically distinct subtypes of mature T and NK neoplasms, making the diagnosis and treatment of these lymphomas even more challenging.

In 2006, the International T-Cell Lymphoma Study Group launched the T Cell Project To verify if a prospective collection of data would allow to achieve more accurate information to better define prognosis of the most frequent subtypes (PTCL-NOS and AITL) and to improve knowledge on clinical and biological characteristics and outcome of the more uncommon subtypes. As of March 20, 2018, 77 Centers from 15 different Countries of 5 different Geografic Areas, including Europe, North America, South America, Middle/Far East, and Oceania registered 1,611 cases making this the largest series of PTCL or NK/T-cell lymphoma ever collected.

During the Montevideo Meeting held on April 12 and 13, 2018, the results of this study have been disclosed and a very positive feedback from the attendants was perceived.

Thus, in order to continue to have a current view of the T-cell lymphomas scenario, the International T-cell Lymphoma Study Group decided to launch the T-cell Project 2.0, which adapts to changes made in diagnosis, staging and response evaluation.

In particular, the purpose of the new study is to better assess the clinical relevance of the new 2016 WHO Classification, the role of the 2014 Lugano Classification in staging and response assessment, the prognosis of different entities, the genomic landscape of different subtypes, and to investigate on most adequate treatment strategies for these neoplasms in the real-world population.

Given the relevance of this project and the benefits that patients all over the world can receive from such a large and qualified International Consortium, the undersigned representatives of respective Institutions approve the project and express their strong commitment in supporting the study in their own Institutions and Countries.

Montevideo, April 13, 2018



International T-Cell non-Hodgkin's Lymphoma Study Group

Montevideo, April 13, 2018

Julie Vose (Chairperson of the International Peripheral T-cell Lymphoma Project)

Massimo Federico (Chairman of the T-Cell Project)

Raul Gabus (Chairman, Organizing Committee of the Montevideo meeting)

Pierluigi Porcu (Organizing Committee of the Montevideo meeting)

Andrei Shustov (Organizing Committee of the Montevideo meeting)

Steven Horwitz (Organizing Committee of the Montevideo meeting)

Stefano Luminari (Organizing Committee of the Montevideo meeting)

RANJANA ADVANI

TEJASO CHUSPI - ECUADOR - SALCA

M. Elena Gálvez - Chile

DOLores CABALLERO - SPAIN

VIRONIKA BAUCIA - SLOVAKIA

ERIN Hsi - CHINA

CARINA DI MATTEO - URUGUAY

Elena Ribabovsky - Israel

LAURA BODEGA - URUGUAY

ANA INES ANDONI - URUGUAY

Judith Totman - Australia



International T-Cell non-Hodgkin's Lymphoma Study Group

CARLOS CHANTON (BRAZIL)

MARLIER LIZAMA PEREZ (PERU - Hosp. Resagocati)

Soledad Gtrina Rana (PERU - Hosp. ESSAU D.)

VALENTINA PEROZ (URUGUAY - HYPACIE)

CHRISTOPHER P. FOX (UNITINGHAM, U.K.)

Tetiana Skaynets (Kyiv, Ukraine)

Gabriela Gualco (Montevideo, Uruguay)

Ruth López Cabrera (PARAGUAY - HOSPITAL DE CLINICAS)

Lorena Cardozo (Uruguay - Hospital IPS)

Antonio Comenzo (PERU - Clinica Delgado)

Marcos Cordero (España - Saldamora)

VITTORIA TARANTINO (ITALY - MODENA)

Brady Bolham (Peru)

CHRISTIANE SALTA (Venezuela - Banco H de Soage)



Now this is not the end. It is not even the beginning of the end. but it is, perhaps, the end of the beginning.

The Lord Mayor's Luncheon, Mansion House

"The End of the Beginning"

November 10, 1942

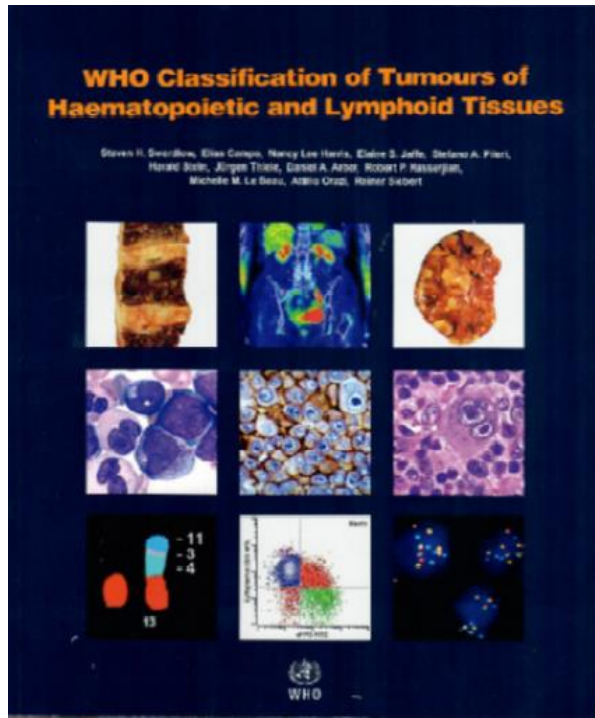


T-CELL PROJECT 2.0

***Prospective, observational,
international registry of patients with
newly diagnosed peripheral
T-cell lymphoma***

SELECTION CRITERIA

NEW HISTOLOGIES (WHO 2016)



- Previously untreated patients with ***de novo*** diagnosis of peripheral T-cell or NK/T-cell lymphoma:
 - T-cell large granular lymphocytic leukaemia
 - NK cells Chronic lymphoproliferative disorder
 - Aggressive NK-cell leukemia
 - Adult T-cell leukemia/lymphoma
 - Extra-nodal NK/T-cell lymphoma, nasal type
 - Intestinal T-cell lymphoma
 - Hepatosplenic T-cell lymphoma
 - Subcutaneous panniculitis-like T-cell lymphoma
 - Peripheral T-cell lymphoma, not otherwise specified
 - Angioimmunoblastic T-cell lymphoma and other nodal lymphomas of T follicular helper cell origin
 - Anaplastic large cell lymphoma, ALK-positive
 - Anaplastic large cell lymphoma, ALK-negative
 - Breast implant-associated anaplastic large cell lymphoma

REGISTRATIONS BY REGION

USA
7 sites

170 sites in 25 countries

South America

Argentina	39 sites
Brazil	32 sites
Chile	4 sites
Peru	3 sites
Uruguay	1 site
Paraguay	1 site
Venezuela	1 site

Africa
Egypt 1 site

Oceania
Australia 17 sites

Europe

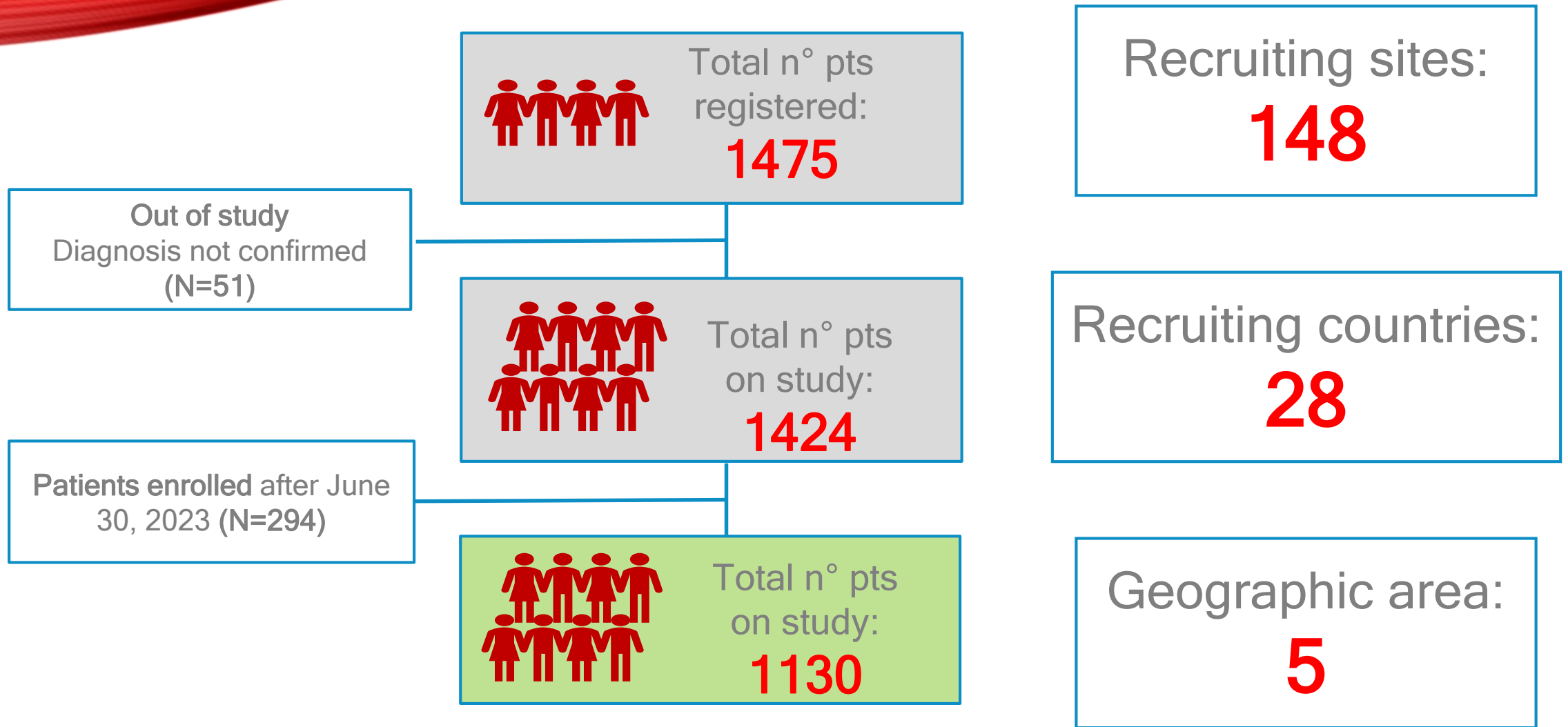
Italy	12 sites
UK	15 sites
Spain	12 sites
Turkey	5 site
Poland	3 sites
Switzerland	1 sites
Croatia	2 sites
Estonia	1 site
Romania	1 site
Ukraine	3 site
Netherlands	1 site
Greece	1 site

Asia

Israel	3 sites
India	1 site
South Korea	1 site
Kazakhstan	1 site
Japan	1 site

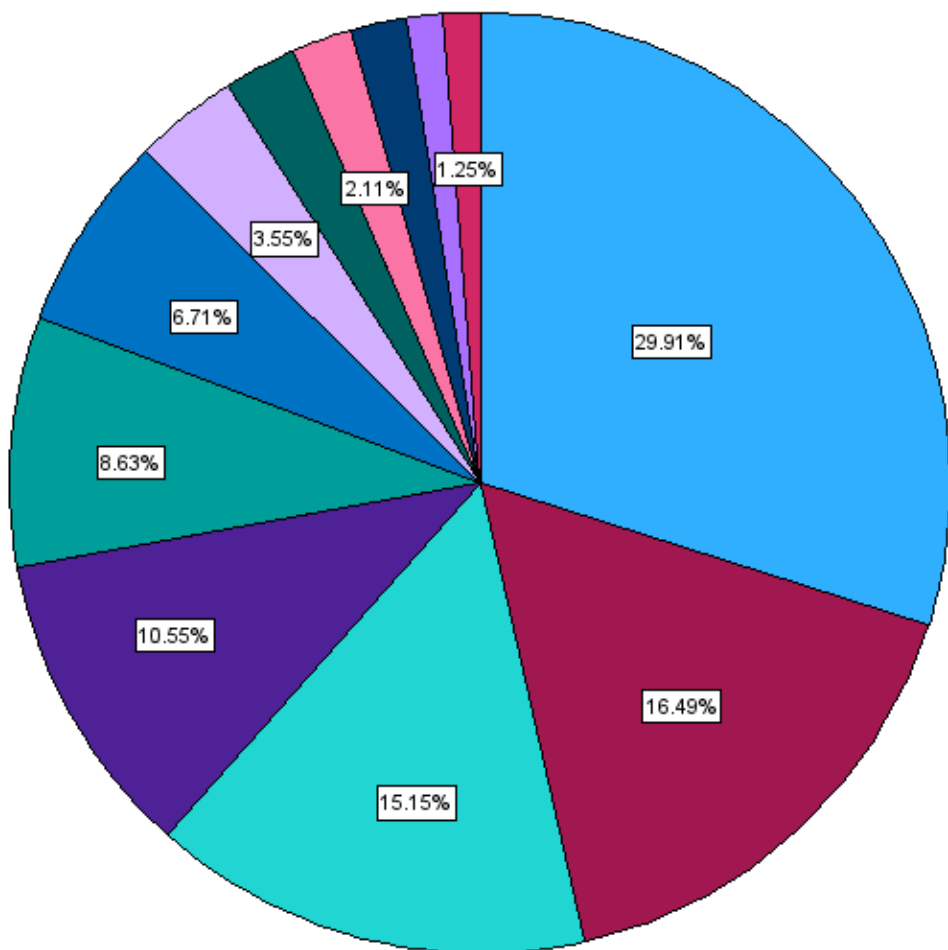


CURRENT STATUS OF TCP2.0 (by November 2025)





TCP 2



- Peripheral T-cell Lymphoma
- Anaplastic large cell lymphoma, ALK-
- Angioimmunoblastic
- Natural killer/T-cell lymphoma
- Adult T-cell leukemia/lymphoma
- Anaplastic large cell lymphoma, ALK+
- Others
- Enteropathy-associated T-cell
- T-cell large granular lymphocytic leukaemia
- Hepatosplenic T-cell
- Nodal peripheral T-cell lymphoma with TFH phenotype
- Breast implant-associated anaplastic large cell

**Distribution of 1,043 cases
by local diagnosis**



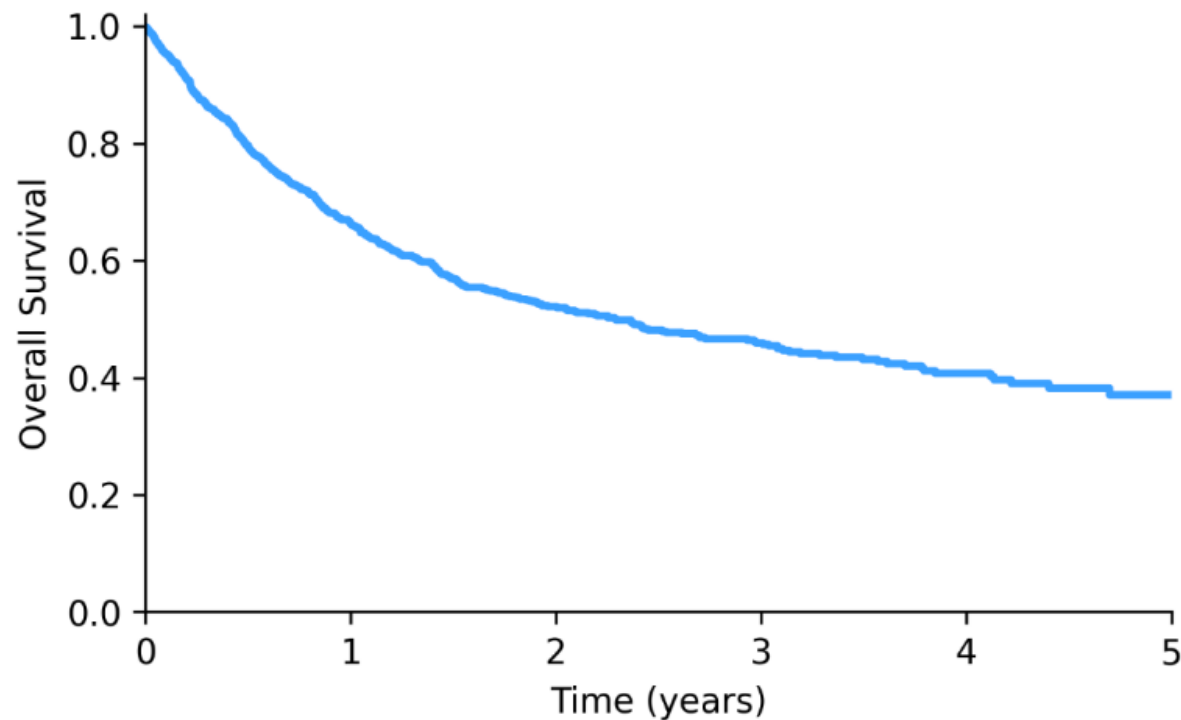
TCP 2

Subtype distribution among regions

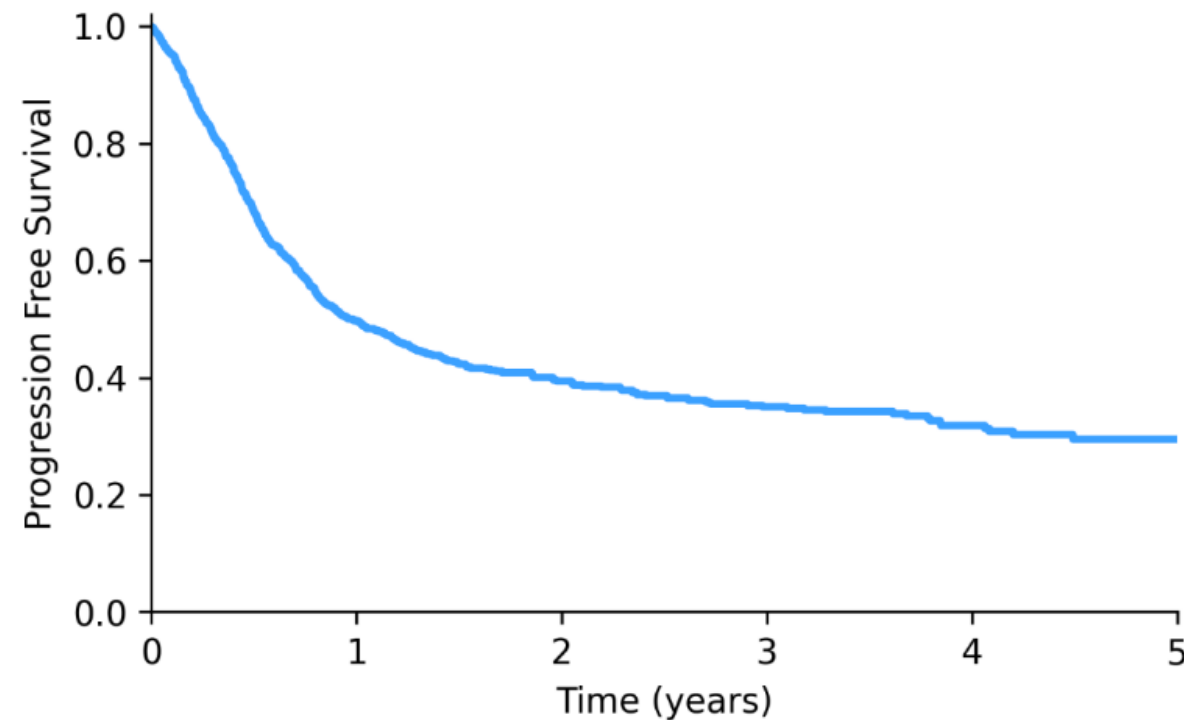
Subtype	N (%)				
	Asia/Oceania (N=189, 18%)	Europe (N=166, 16%)	North America (N=61, 6%)	South America (N=627, 60%)	TOTAL (N= 1043, 92.3%)
PTCL-NOS	61 (32.3)	62 (37.3)	17 (27.9)	172 (27.4)	312 (29.9)
AITL	39 (20.6)	33 (19.9)	11 (18)	75 (12)	158 (15.2)
NKTCL	19 (10.1)	12 (7.2)	8 (13.1)	71 (11.3)	110 (10.6)
ALCL, ALK+	9 (4.8)	17 (10.2)	6 (9.8)	38 (6.1)	70 (6.7)
ALCL, ALK-	41 (21.7)	18 (10.8)	4 (6.6)	109 (17.4)	172 (16.5)
ATLL	9 (4.8)	3 (1.8)	5 (8.2)	73 (11.6)	90 (8.7)
Enteropathy-type	0	5 (3.0)	0	21 (3.3)	26 (2.5)
Other minor subtypes	11 (5.8)	16 (9.6)	10 (16.4)	68 (10.8)	105 (10.1)



TCP 2 Overall and Progression Free Survival



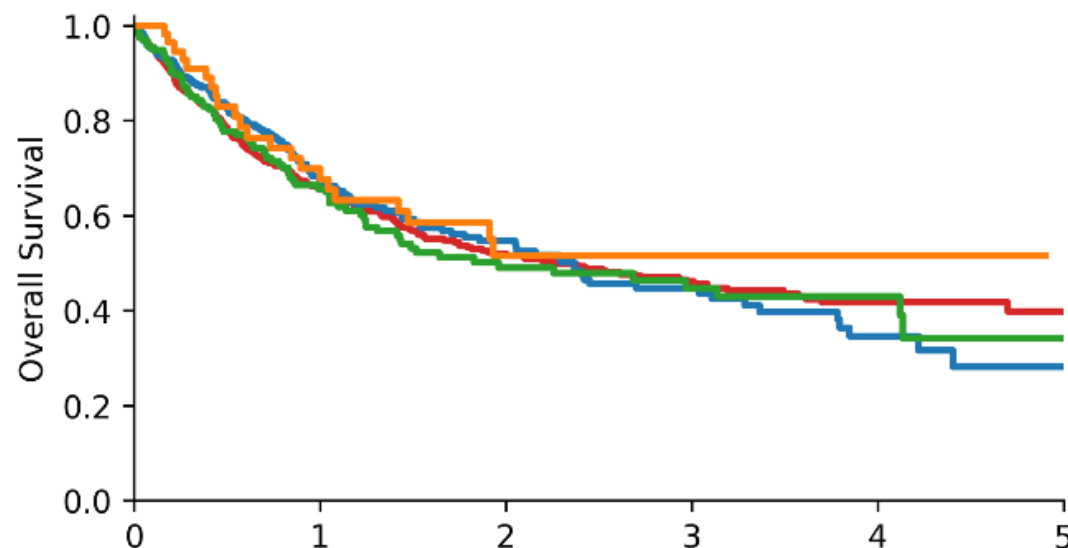
Time (year)	0	1	2	3	4	5
No. at risk	1130	570	310	189	85	17
OS%	99.9	66.3	52.1	45.9	40.8	37.1



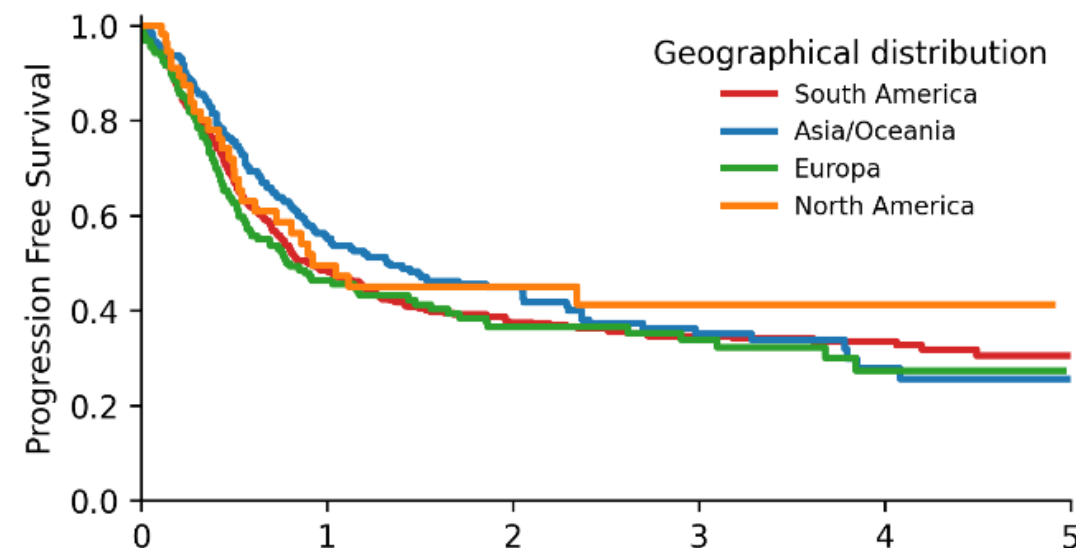
Time (year)	0	1	2	3	4	5
No. at risk	1130	423	238	146	69	14
PFS%	99.9	49.7	39.4	35.0	31.9	29.5



TCP 2 OS and PFS by Regions



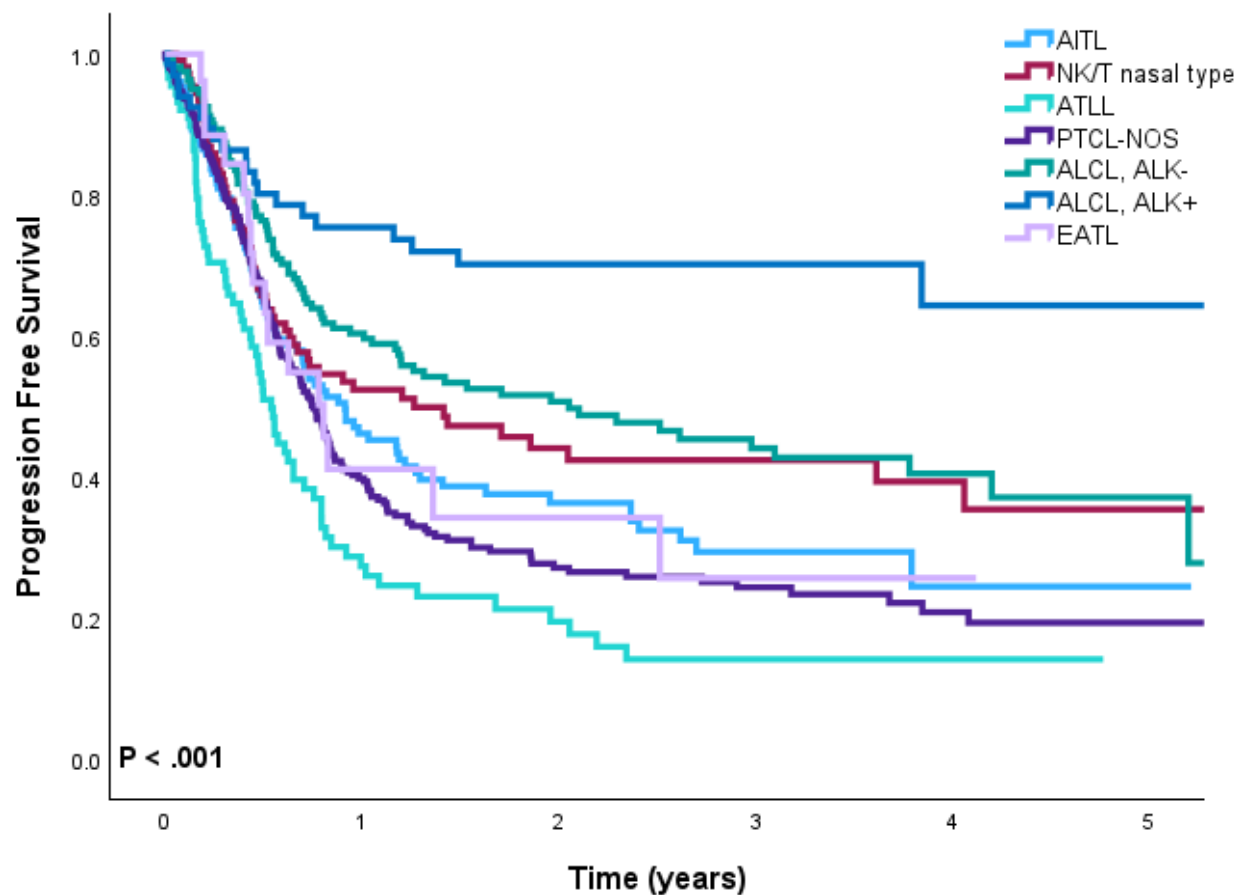
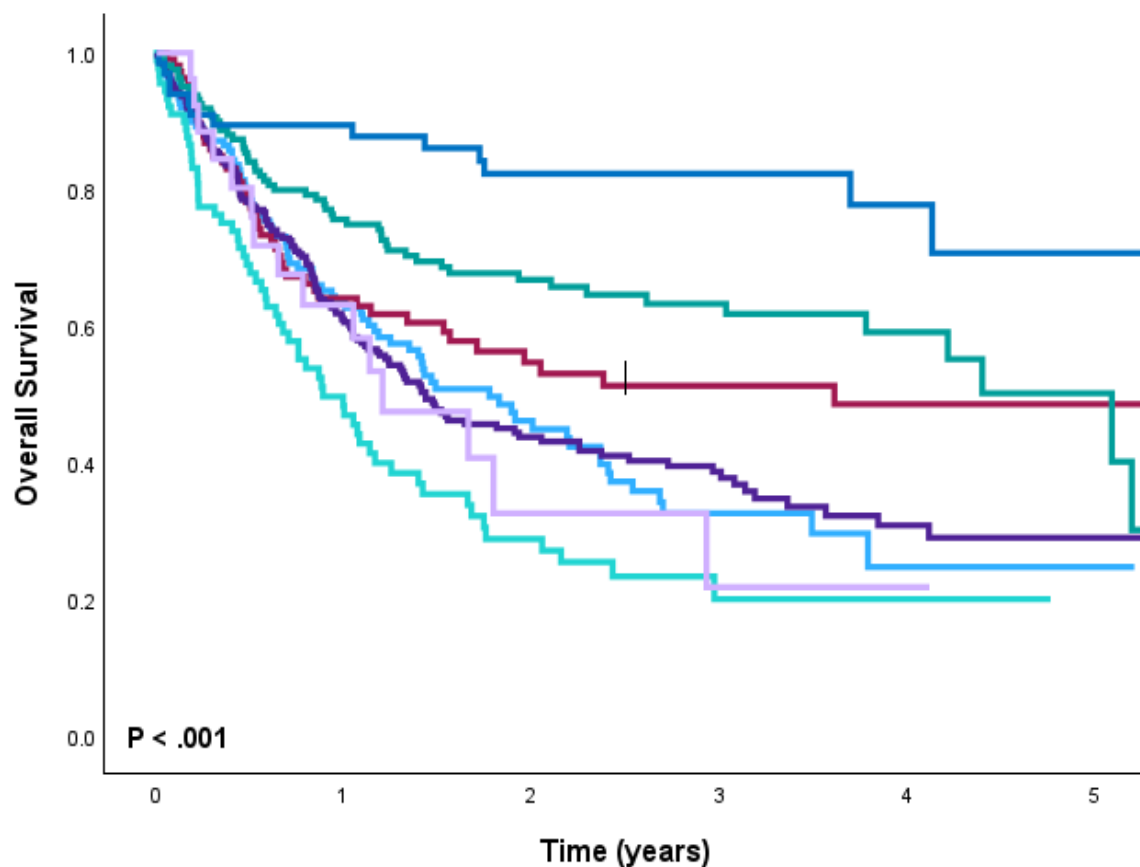
Time (year)	0	1	2	3	4	5
South America	634	324	174	110	51	12
OS%	100.0	65.9	51.9	46.2	41.8	39.9
Asia/Oceania	269	128	75	43	18	4
OS%	99.6	67.3	54.8	44.8	34.6	28.2
Europa	166	87	46	27	13	1
OS%	100.0	65.7	49.1	44.8	43.0	34.2
North America	61	31	15	9	3	0
OS%	100.0	67.7	51.6	51.6	51.6	51.6



Time (year)	0	1	2	3	4	5
South America	634	239	128	86	44	11
PFS%	100.0	48.4	37.6	34.6	33.6	30.6
Asia/Oceania	269	102	60	31	13	3
PFS%	100.0	55.3	44.9	35.2	27.9	25.6
Europa	166	60	37	22	9	0
PFS%	99.4	46.4	36.6	33.9	27.4	27.4
North America	61	22	13	7	3	0
PFS%	100.0	49.6	45.1	41.3	41.3	41.3

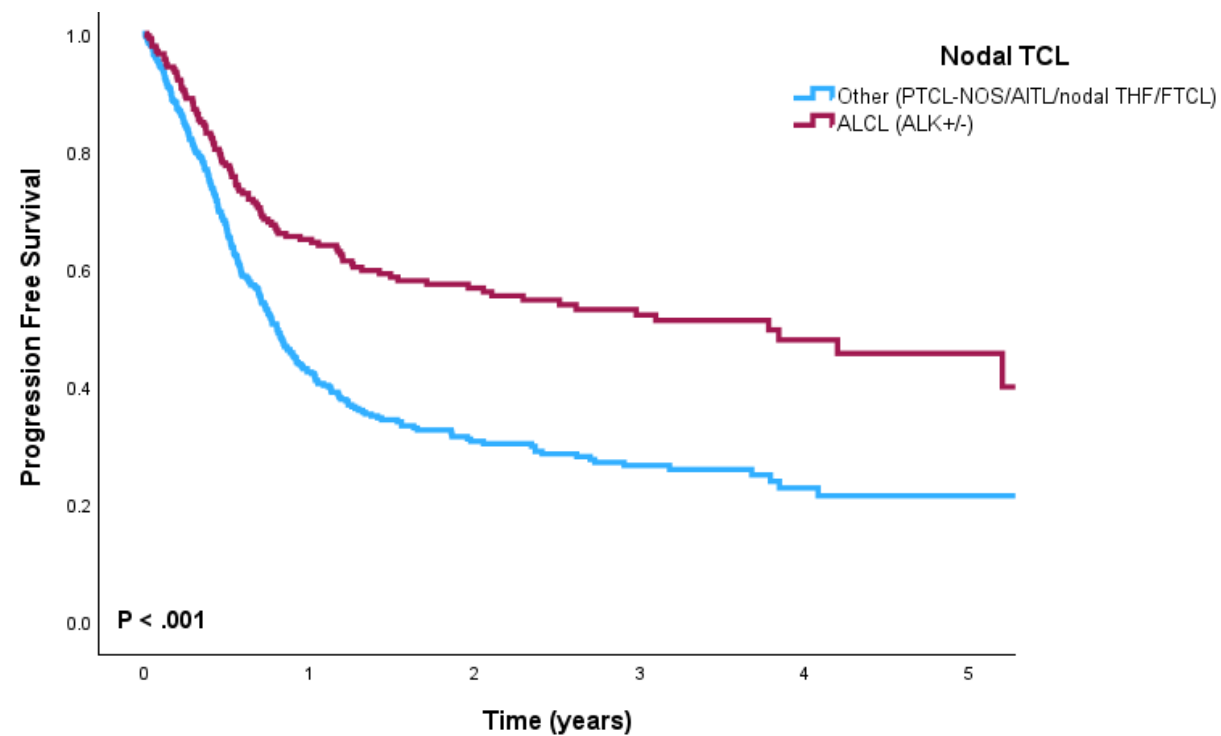
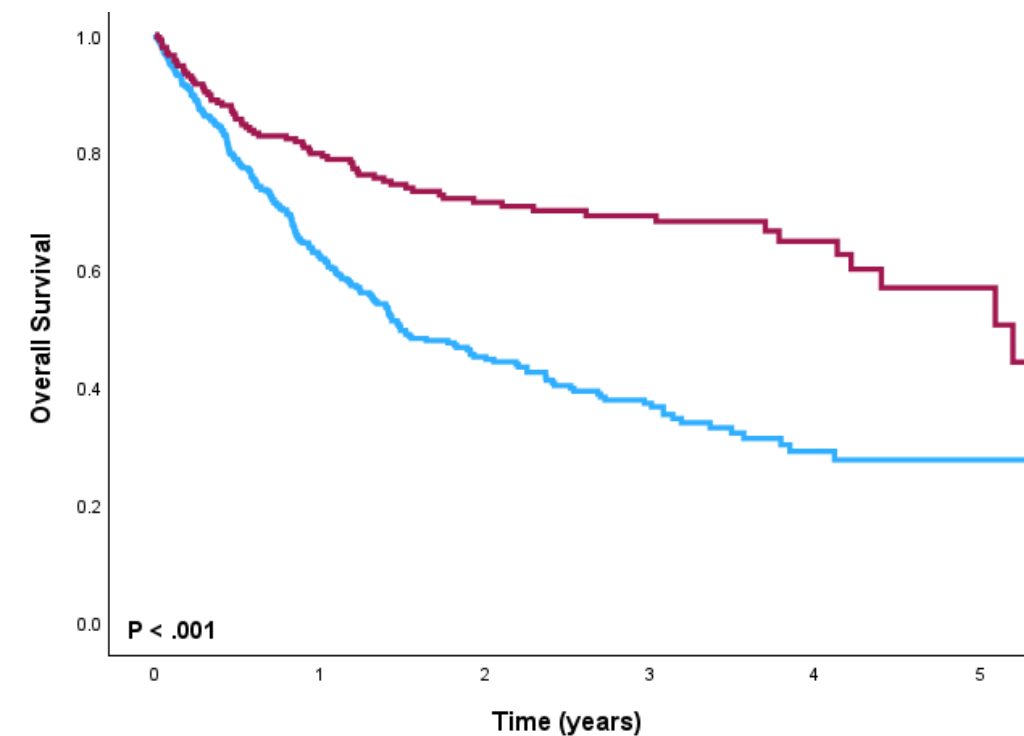


TCP 2 OS and PFS by histotypes



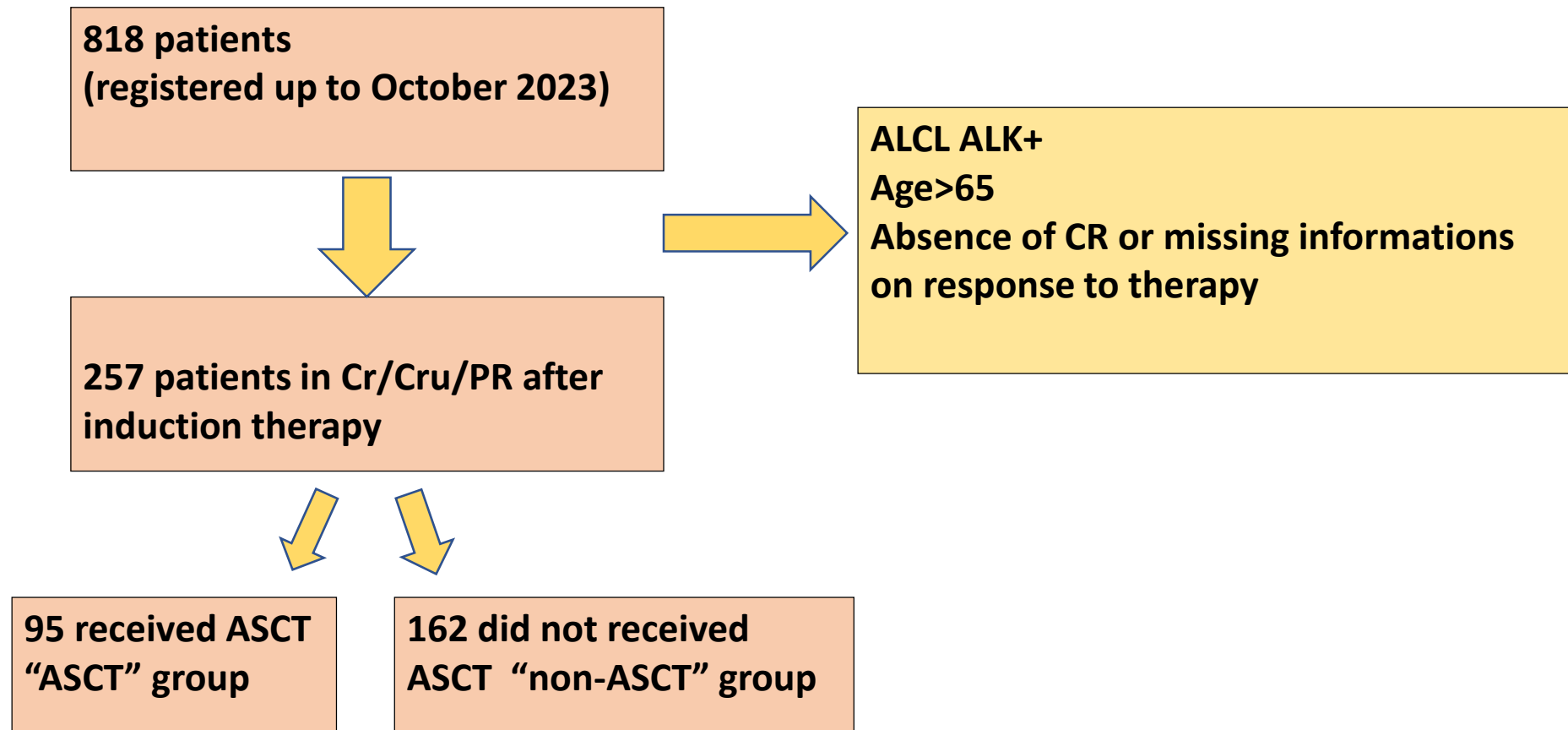


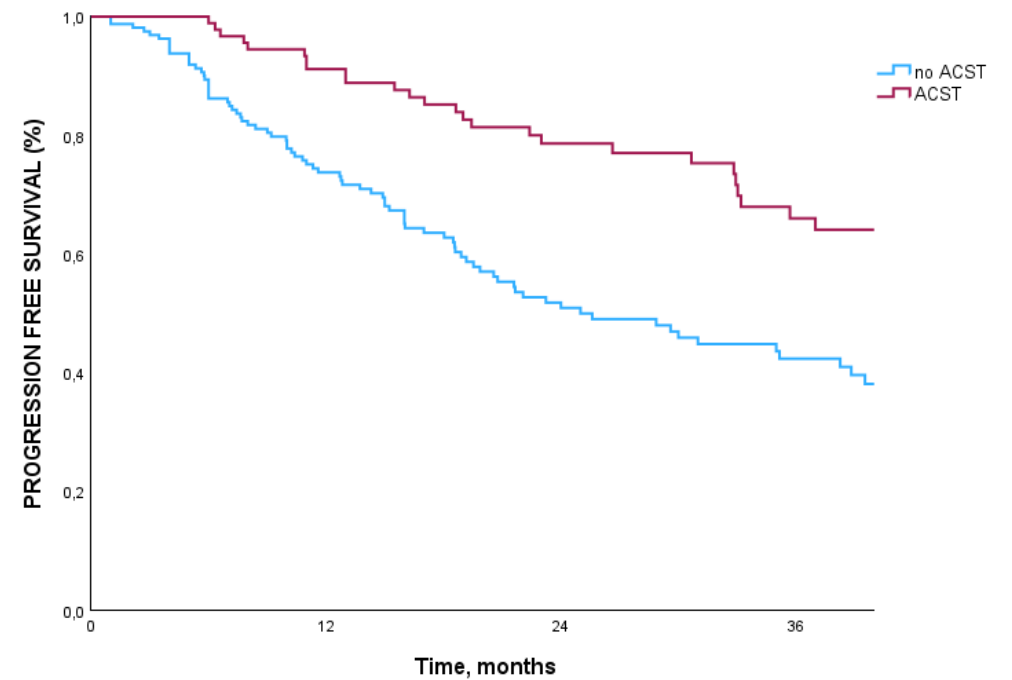
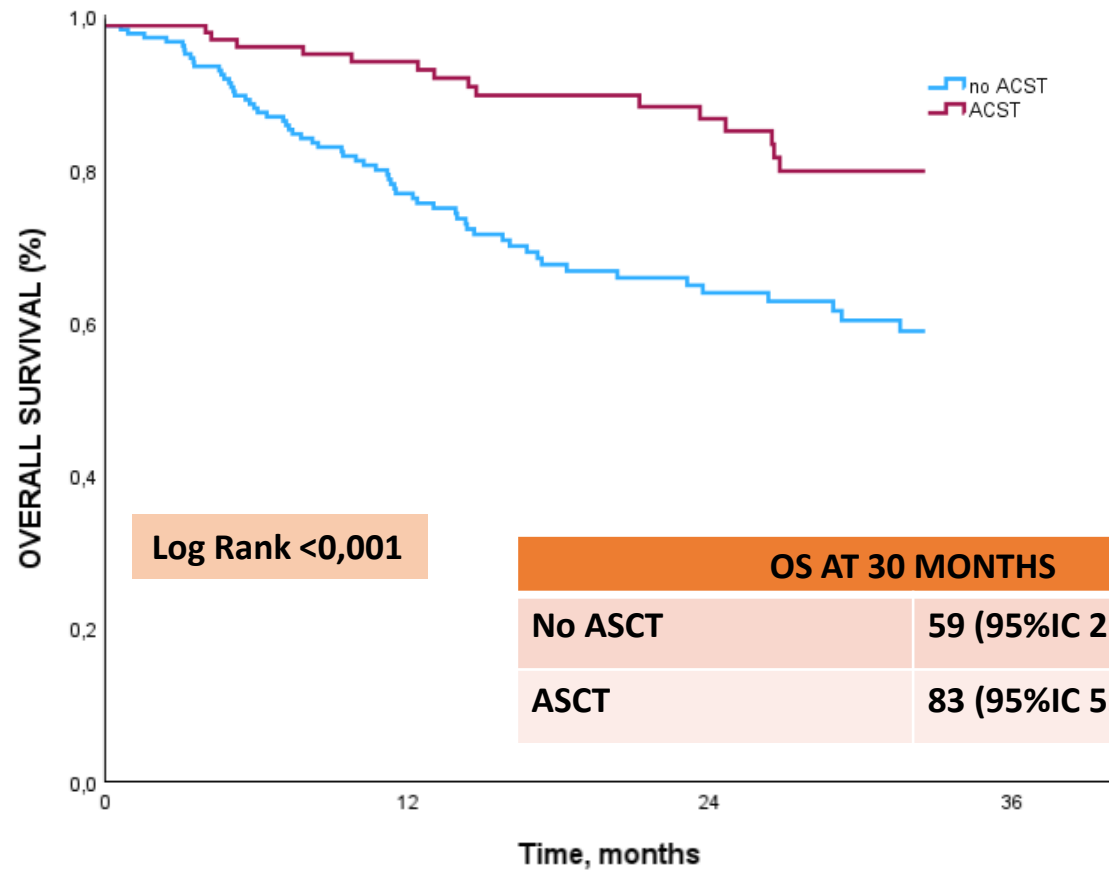
NODAL PTCLs: ALCL vs Other



Transplant as consolidation in TCP2 (2018-2021)

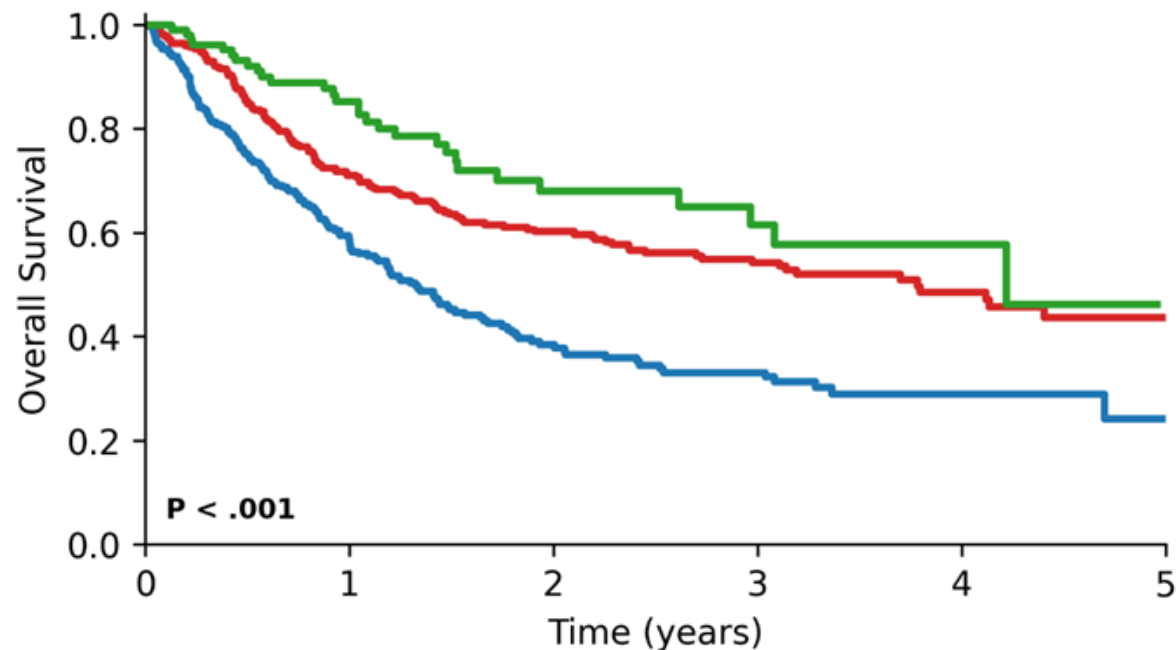
	Ntot	Transplant (N, %)
All patients	633	115 (18,2%)
All patients in CR/PR	387	111 (28,7%)
All patients in CR/PR and aged <70	337	106 (31,4%)



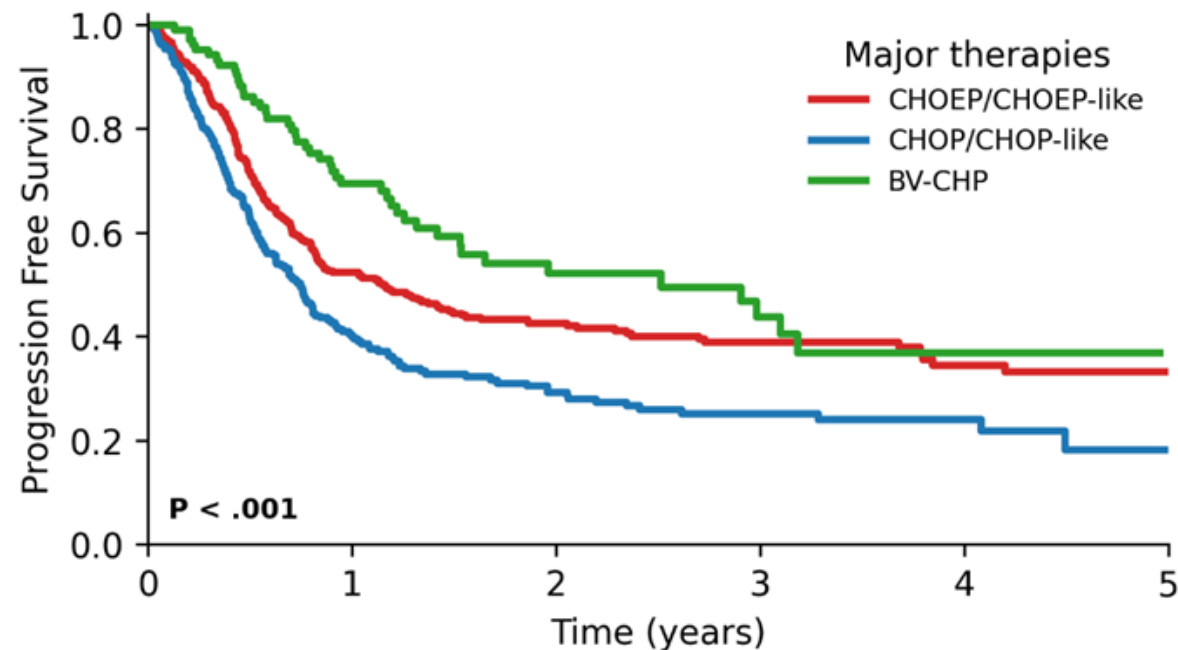




TCP 2 OS and PFS by Regimens



Time (year)	0	1	2	3	4	5
CHOEP/CHOEP-like	354	213	125	83	35	11
OS%	100.0	71.1	60.2	54.3	48.5	43.7
CHOP/CHOP-like	293	128	62	39	14	2
OS%	100.0	57.7	38.5	33.1	29.0	24.2
BV-CHP	108	68	32	17	8	0
OS%	100.0	85.3	68.0	61.5	57.7	46.1



Time (year)	0	1	2	3	4	5
CHOEP/CHOEP-like	354	157	93	62	28	9
PFS%	100.0	52.3	42.5	38.9	34.5	33.2
CHOP/CHOP-like	293	87	47	29	11	2
PFS%	100.0	40.1	29.3	25.2	24.1	18.3
BV-CHP	108	55	26	14	6	0
PFS%	100.0	69.4	52.2	43.9	36.8	36.8

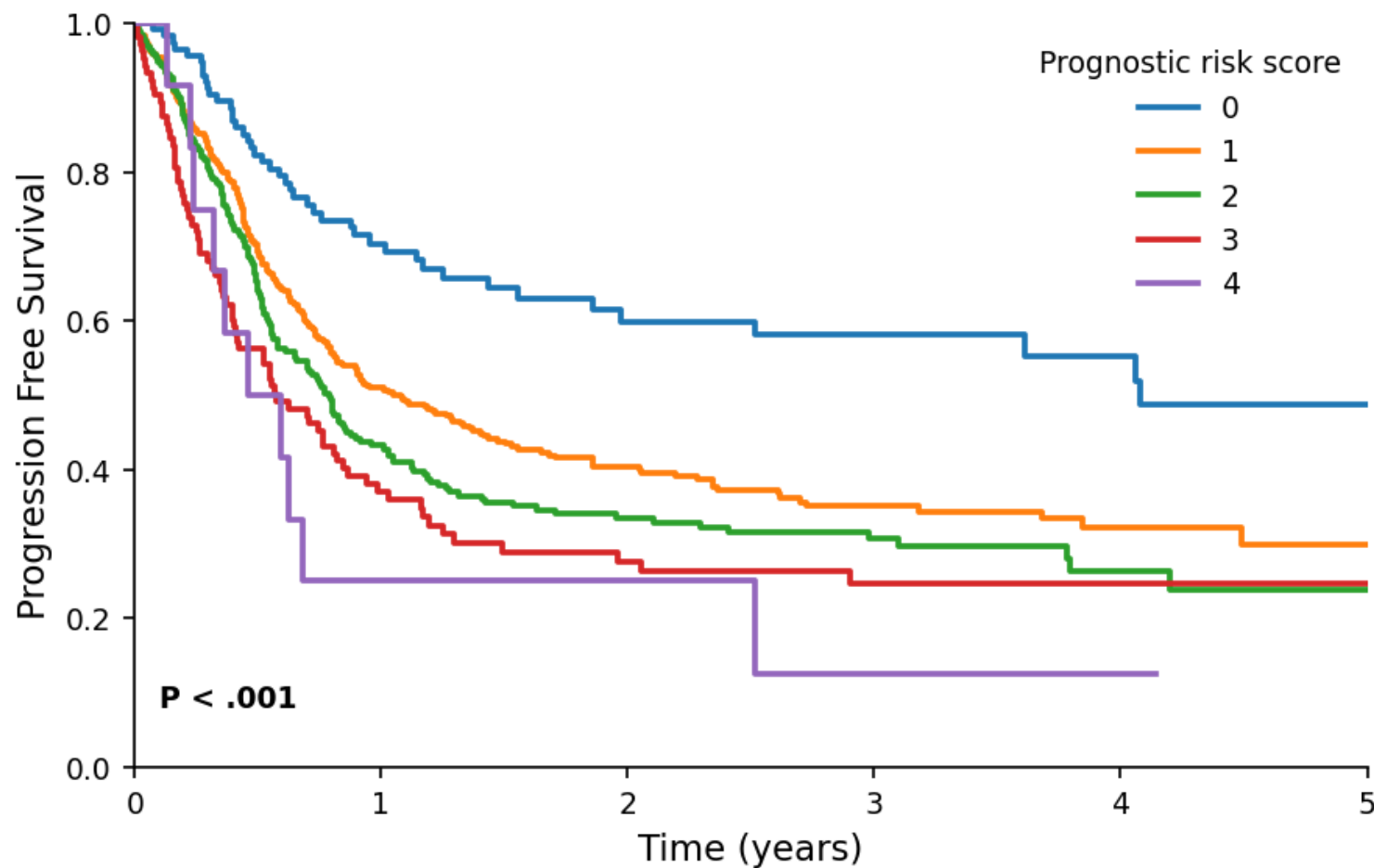


Univariable and Multivariable models for association between prognostic variables and Progression Free Survival (PFS)

Variable	HR	95% CI	P	HR	95% CI	P
Age ≥ 65	1.76	1.47-2.11	<0.001	1.62	1.37-2.40	<0.001
Gender	1.06	0.89-1.27	NS			
ALCL (ALK+/ALK-) vs other	0.89	0.84-0.94	<0.001	0.59	0.85-1.00	0.001
Stage ≥3	2.10	1.67-2.65	<0.001	1.84	1.24-2.75	<0.001
B symptoms	1.23	1.03-1.47	0.02	1.00	0.40-1.31	NS
ECOG ≥2	2.17	1.78-2.64	<0.001	1.61	1.13-2.13	<0.001
LDH ≥ ULN	2.14	1.74-2.64	<0.001	0.027	1.00-1.79	NS
Beta2M > ULN	1.61	1.18-2.21	0.003			
Hemoglobin<12 g/dL	1.66	1.38-1.98	<0.001	0.27	0.11-0.98	NS
Albumin < 3.5 g/dL	1.84	1.51-2.23	<0.001	0.31	0.10-1.24	NS
Platelets <150 g/dL	1.74	1.43-2.12	<0.001	0.064	0.01-1.02	NS
BM involvement	0.57	0.46-0.70	<0.001	0.69	0.54-0.99	NS
Lymph nodes invol	1.08	0.88-1.33	NS			
Extranodal involvement	1.17	0.98-1.41	NS			
EBV	0.79	0.61-1.03	NS			



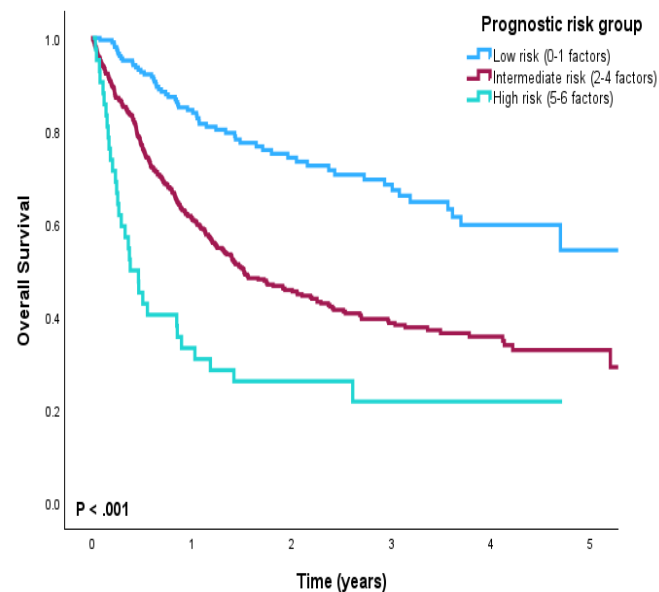
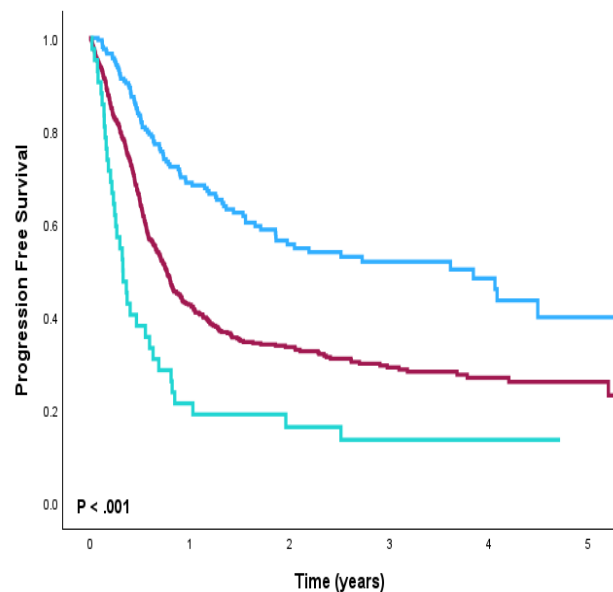
OUTCOME ACCORDING TO THE # OF ADVERSE RISK FACTORS



T-CELL PROJECT 2.0



OUTCOME ACCORDING TO THE TCP2 INDEX?



ECOG PS	0-1
AA STAGE	1-2
Age	<65
Histology	ALCL

Low Risk	0-1 factors
Intermediate risk	2-4
High risk	5





TOWARDS TCP2.1

Chairman: Stefano Luminari

Co-Chairman: Pierluigi Porcu

Steering Committee: Christopher Fox, Miles Prince, Carlos Chiattonne, Astrid Pavlovsky, Alejandro Martin, Alessandro Pulsoni, Socorro Maria Rodriguez

Subprojects (prospectively):

- PET assessment
- Geriatric assessment
- Virtual pathology review
- Role of ASCT
- Targeting EBV
- ctDNA assessment



MUCHAS GRACIAS POR SU ATENCION!