



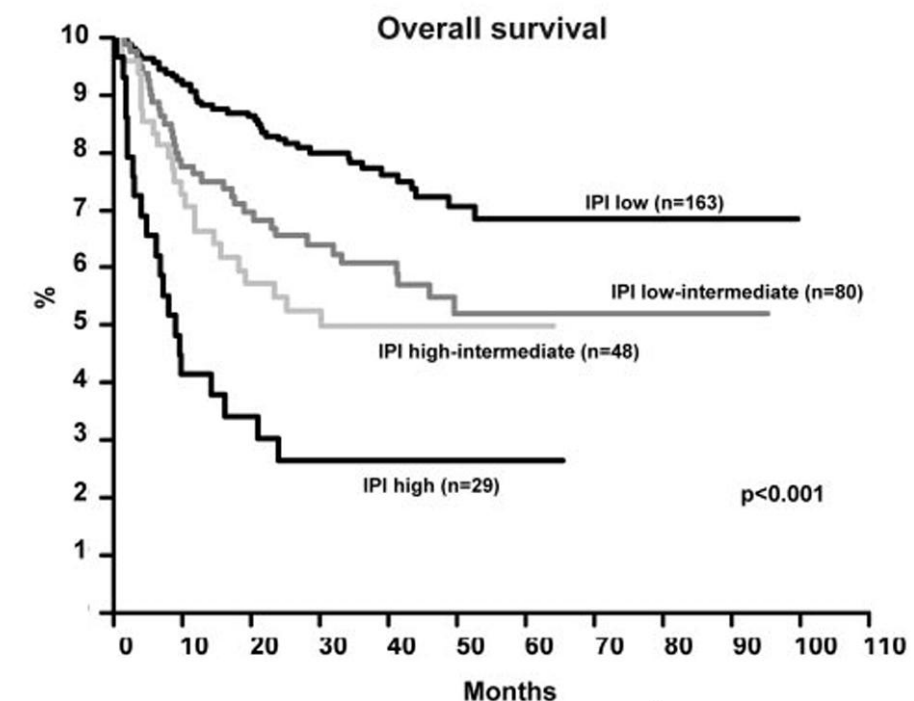
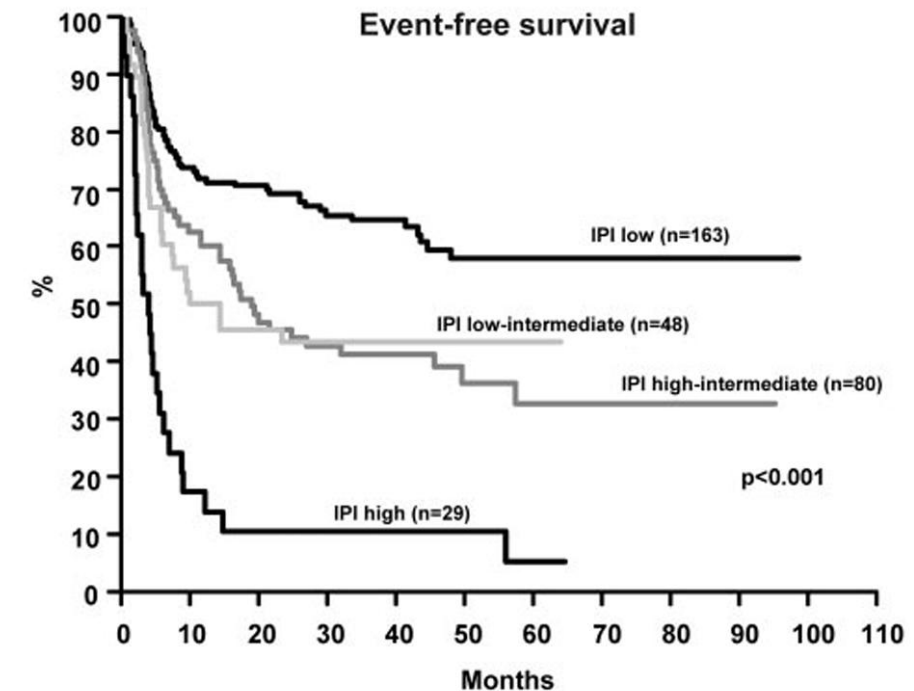
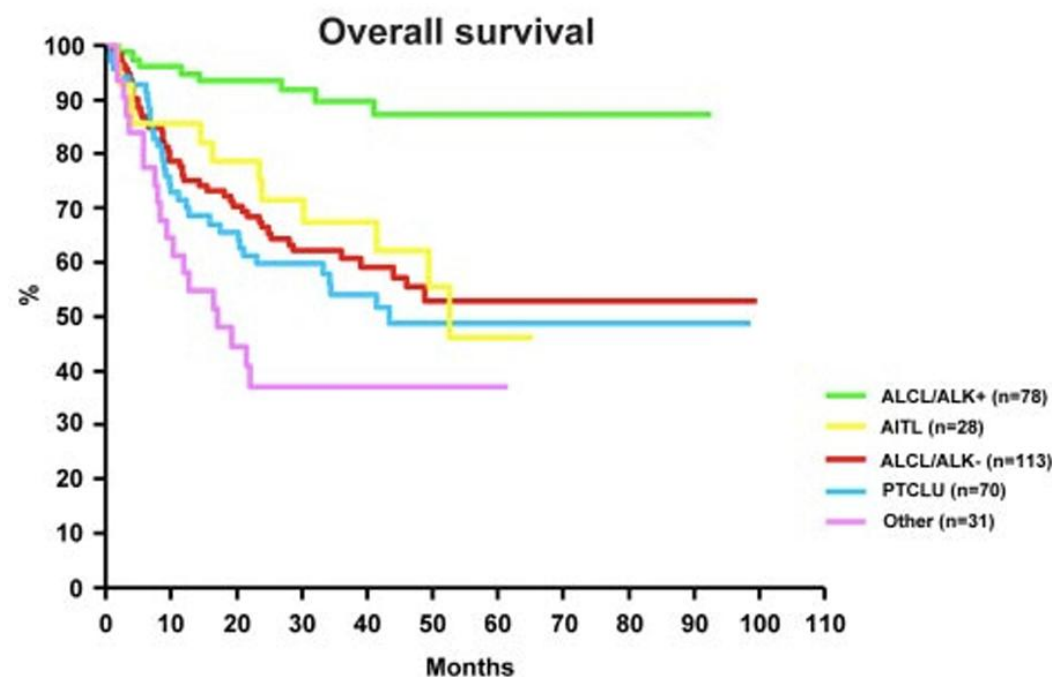
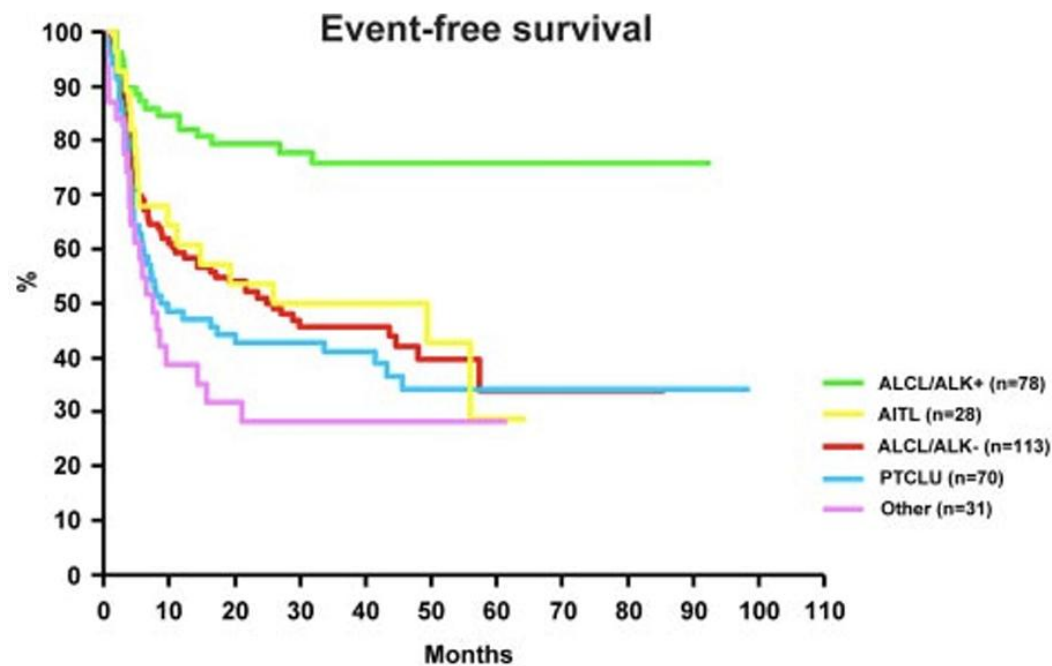
Transplantation role in T cell NHL

Soroush Rad M.D.
Assistant Professor at TUMS
Hematologist and Medical Oncologist
srad@sina.tums.ac.ir

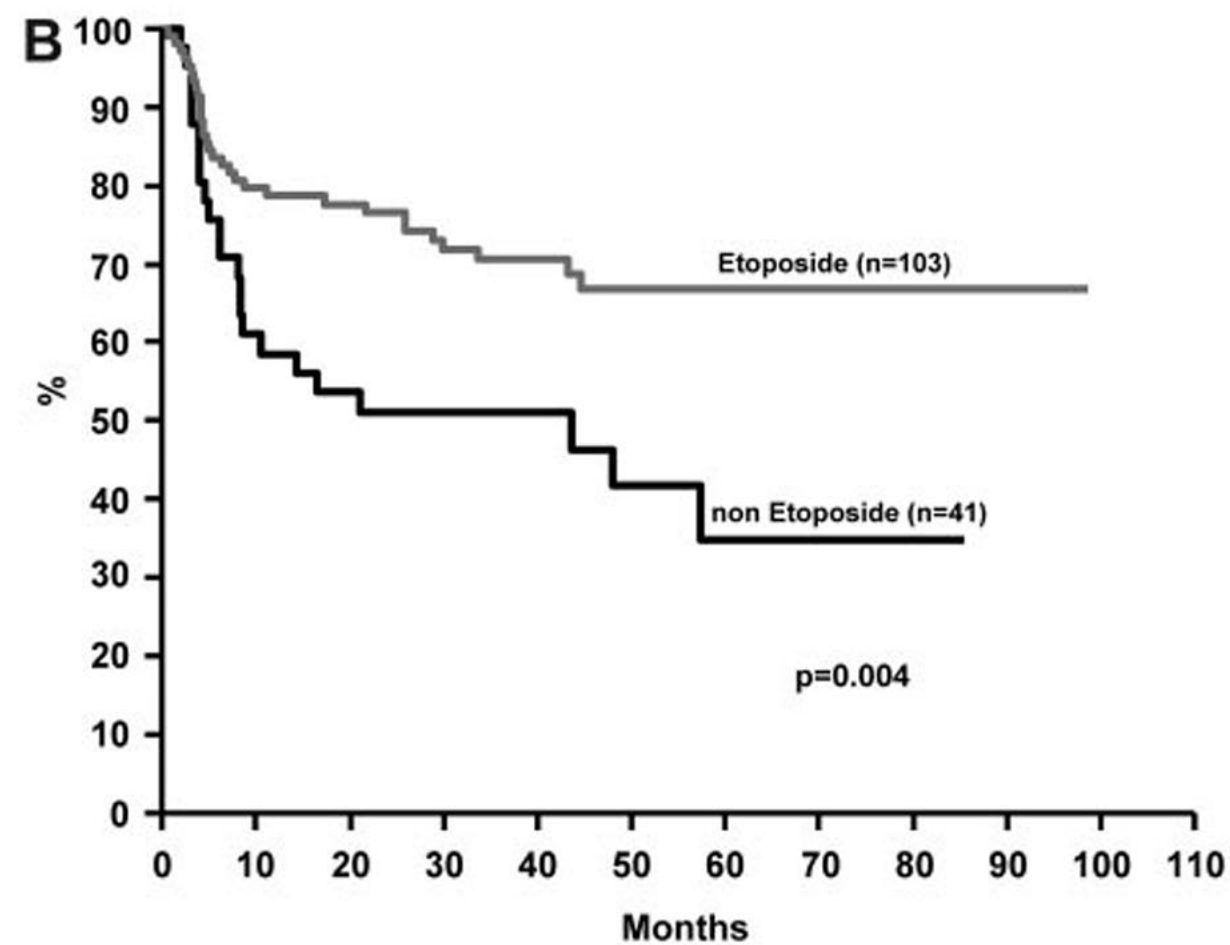
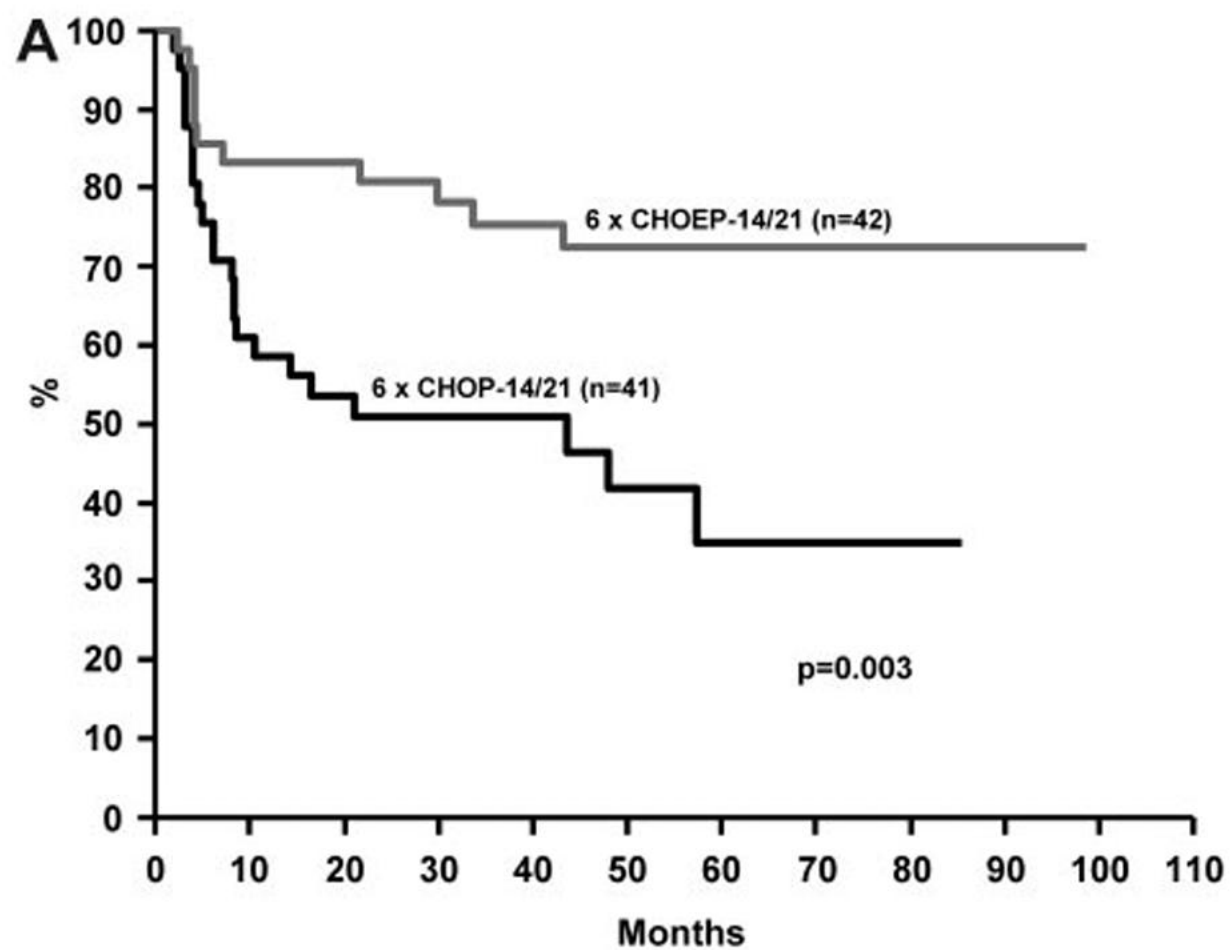
- 19 years old male presented with left cervical and axillary LAPs and pectoralis muscle infiltration
- Biopsy: Peripheral T cell Lymphoma ,NOS; CD30 positive
- CHOEP 6 times
- Complete response

Treatment and prognosis of mature T-cell and NK-cell lymphoma: an analysis of patients with T-cell lymphoma treated in studies of the German High-Grade Non-Hodgkin Lymphoma Study Group

Norbert Schmitz,¹ Lorenz Trümper,² Marita Ziepert,³ Maike Nickelsen,¹ Anthony D. Ho,⁴ Bernd Metzner,⁵ Norma Peter,⁶ Markus Loeffler,³ Andreas Rosenwald,⁷ and Michael Pfreundschuh⁸



	EFS			OS		
	RR	95% CI	<i>P</i>	RR	95% CI	<i>P</i>
PTCLU vs ALK-negative ALCL	1.1	(0.7;1.6)	.720	1.1	(0.7;1.7)	.768
AITL vs ALK-negative ALCL	0.6	(0.3;1.0)	.046	0.5	(0.2;1.0)	.037
Other* vs ALK-negative ALCL	1.7	(1.0;2.7)	.038	2.0	(1.2;3.5)	.009



What is your next approach?

1. Active surveillance
2. Radiotherapy
3. HDCT plus Auto-HSCT
4. RT and HDCT plus Auto-HSCT
5. Allo-HSCT

	IPI ^a	PIT ^b	IPTCLP ^c	mPIT ^d
Age (≤ 60 versus > 60)	X	X	X	X
ECOG (≤ 1 versus > 1)	X	X	X	X
LDH (normal versus high)	X	X		X
Ann Arbor stage (I–II versus III–IV)	X			
Extranodal involvement (< 2 versus ≥ 2 sites)	X			
BM involvement (negative versus positive)		X		
Platelet cell count (≤ 150 versus $> 150 \times 10^9/l$)			X	
Ki-67 (%) (≤ 75 versus > 75)				X

Group risk were defined:

^aFour groups: 0–1, low; 2, low-intermediate; 3, high-intermediate and 4–5, high.

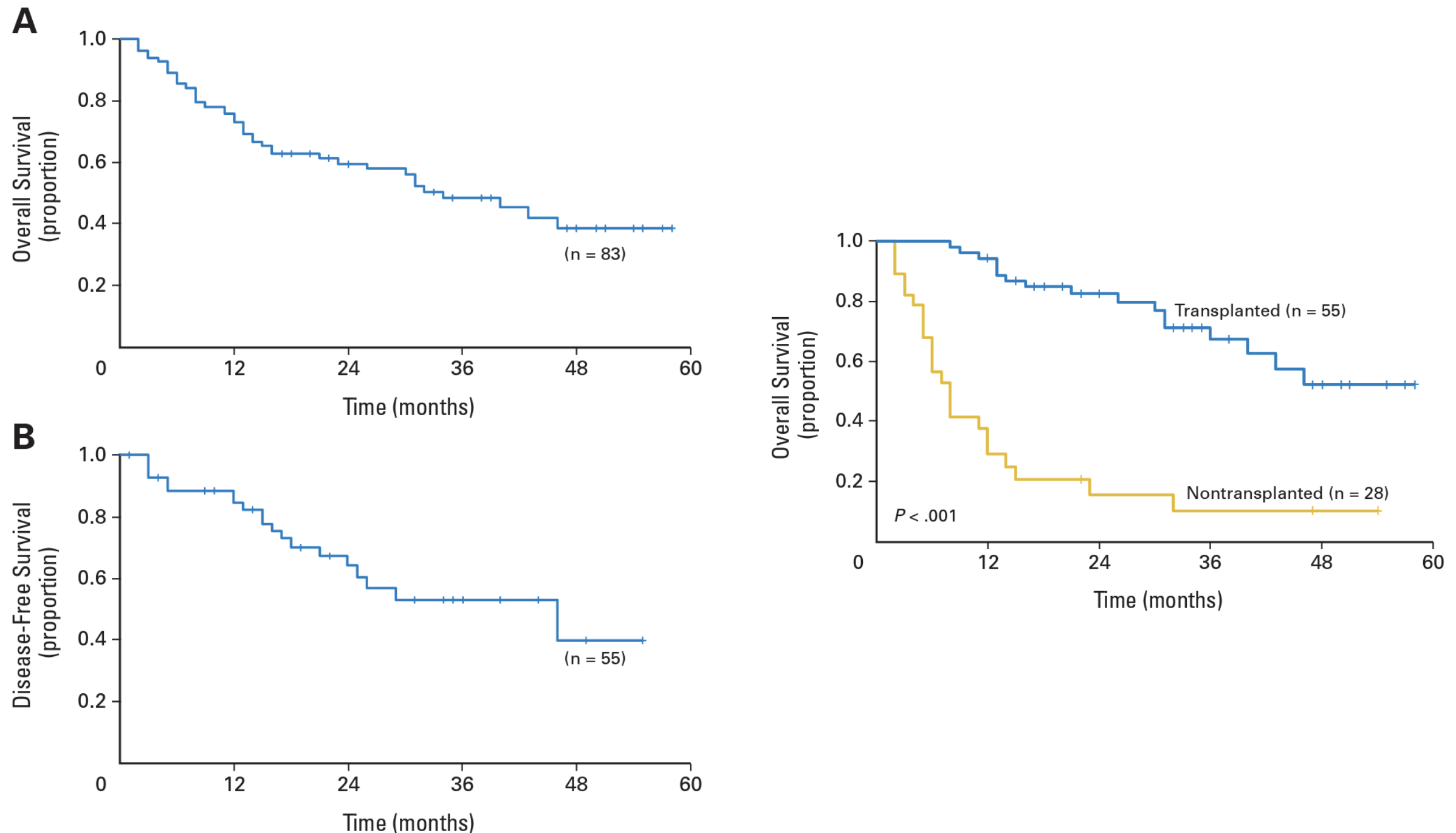
^bFour groups: 1, low; 2, low-intermediate; 3, high-intermediate and 3–4, high.

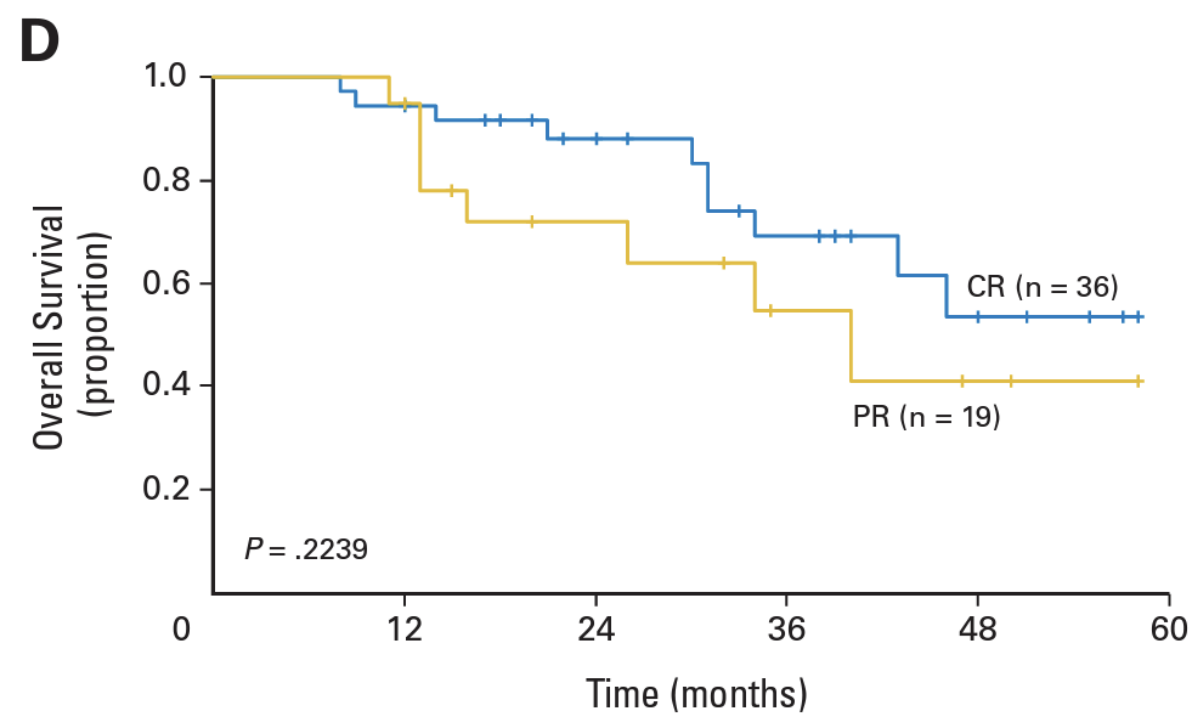
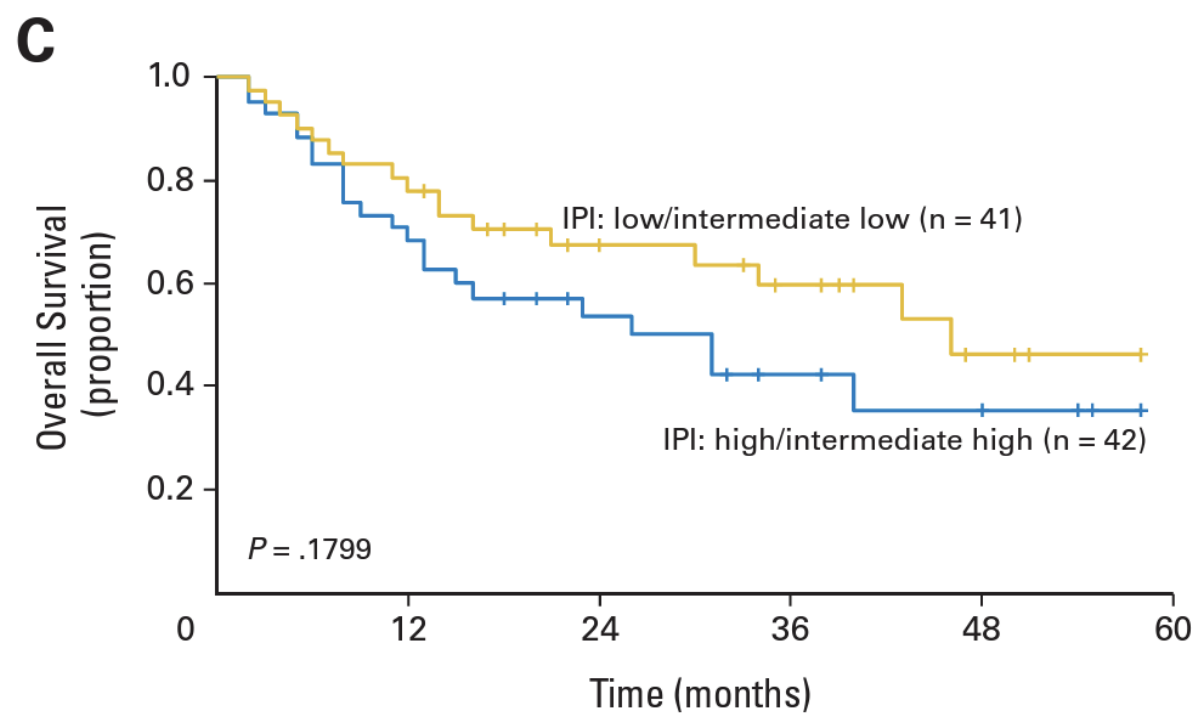
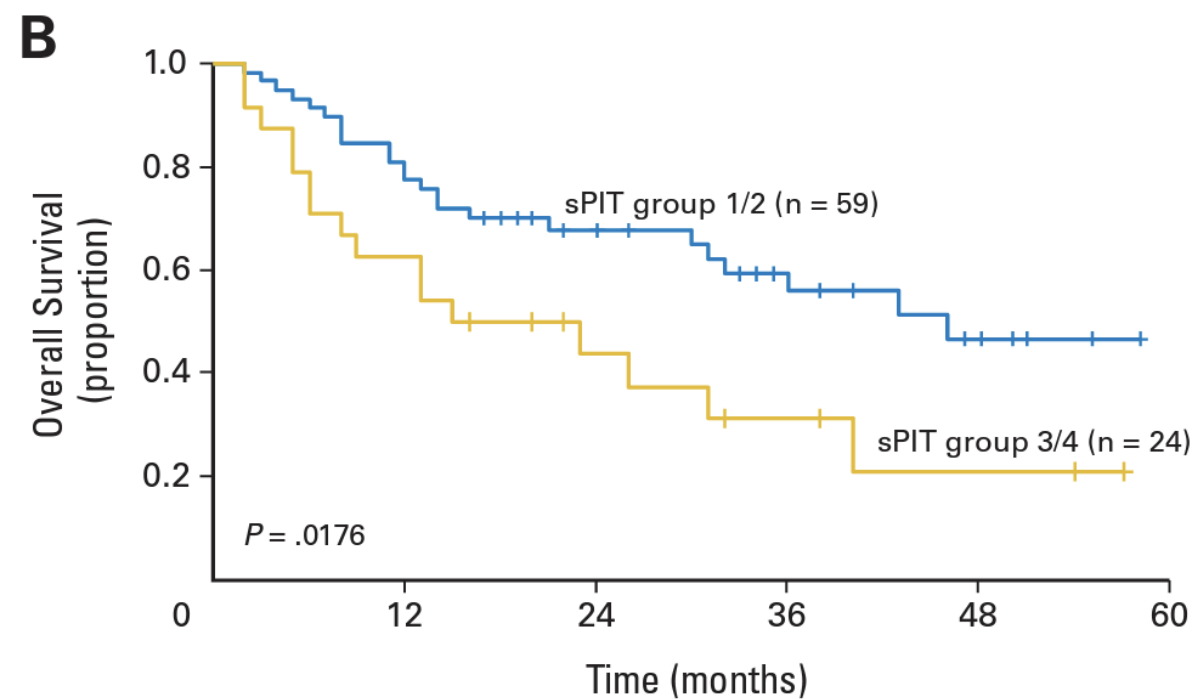
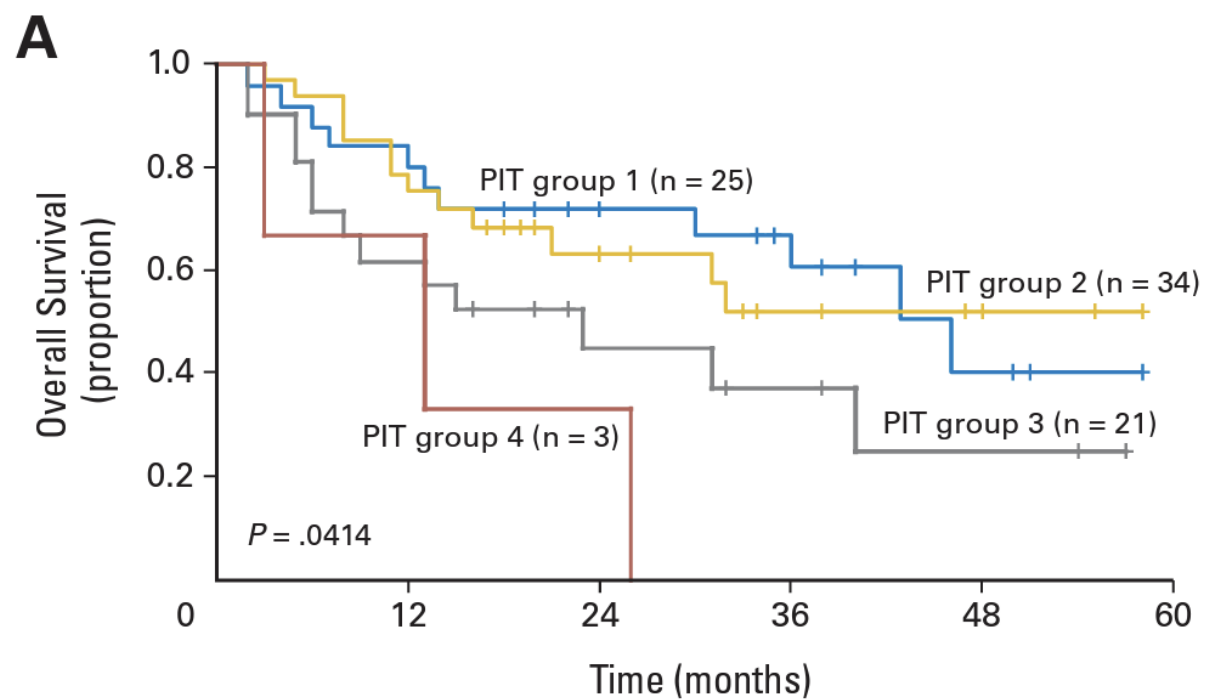
^cFour groups: 0, low; 1, low-intermediate; 2, high-intermediate and 3, high.

^dThree groups: 0–1, low; 2, intermediate and 3–4, high.

Autologous Stem-Cell Transplantation As First-Line Therapy in Peripheral T-Cell Lymphomas: Results of a Prospective Multicenter Study

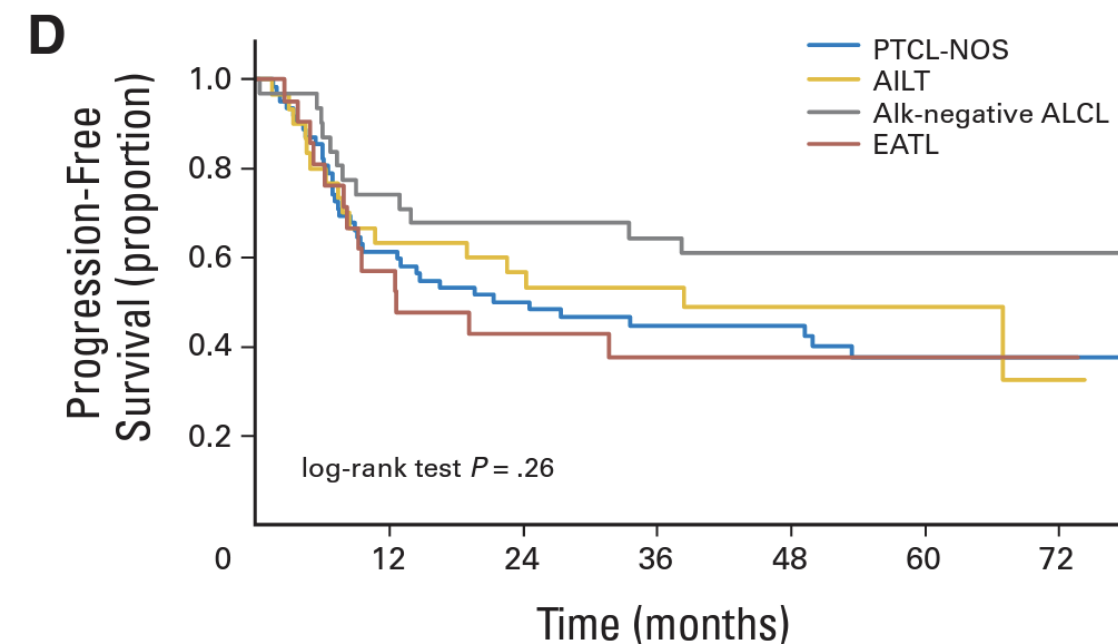
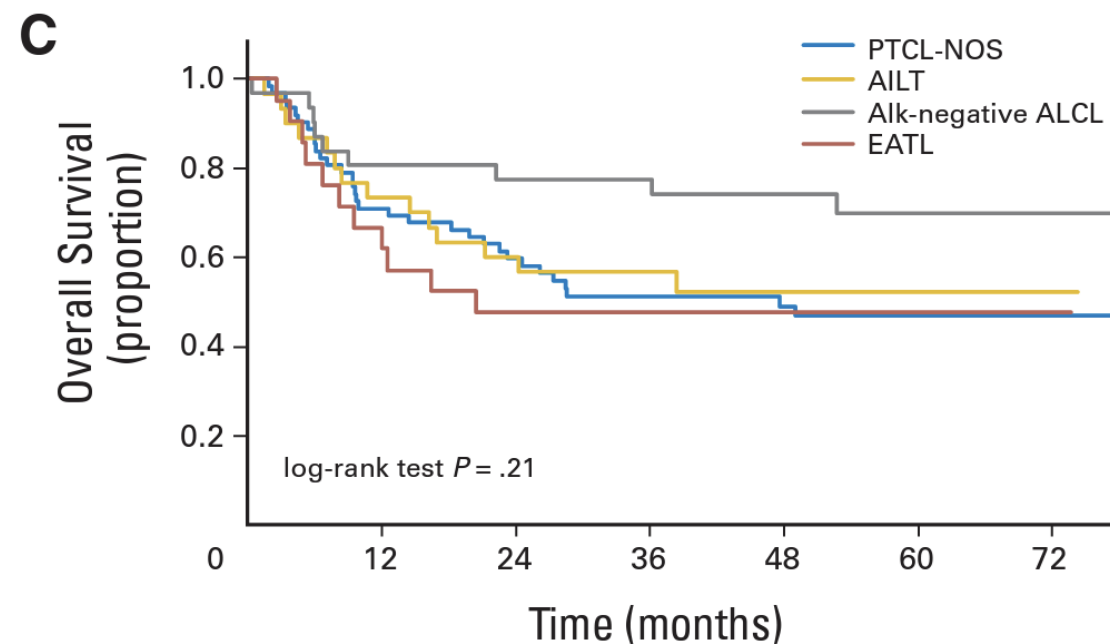
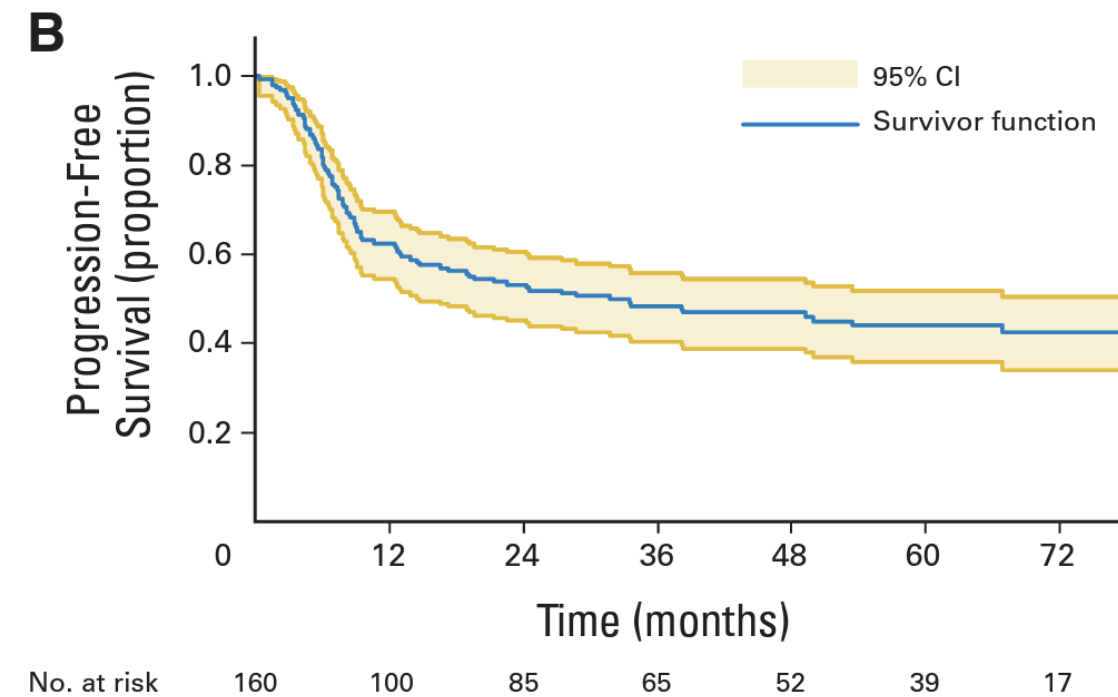
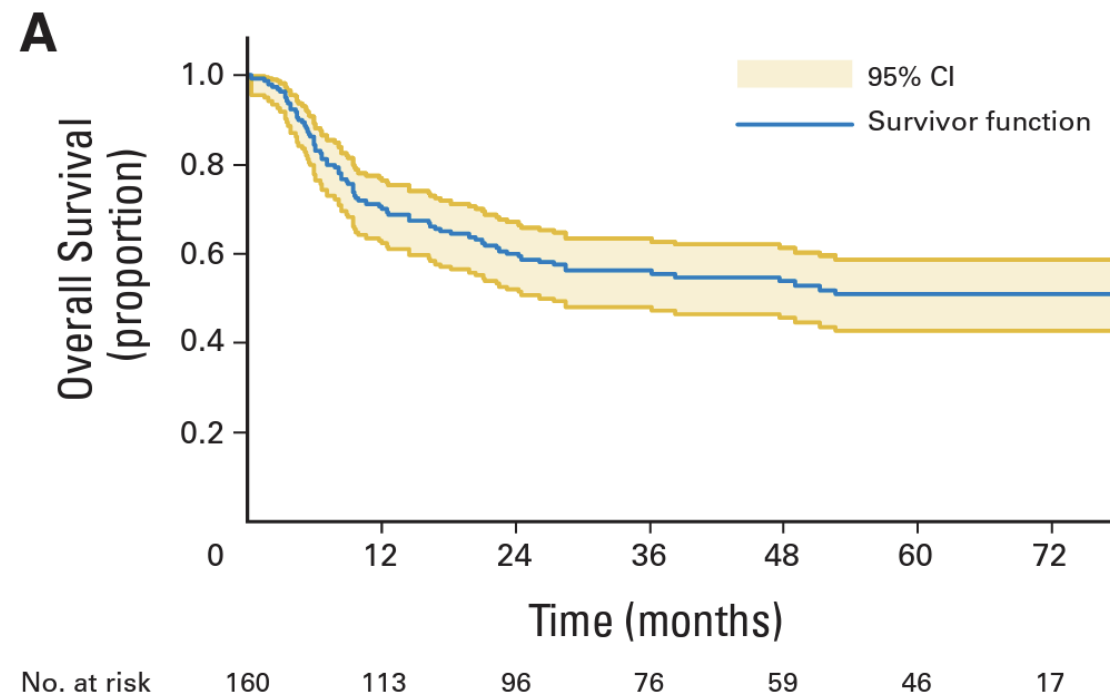
Peter Reimer, Thomas Rüdiger, Eva Geissinger, Florian Weissinger, Christoph Nerl, Norbert Schmitz, Andreas Engert, Hermann Einsele, Hans Konrad Müller-Hermelink, and Martin Wilhelm





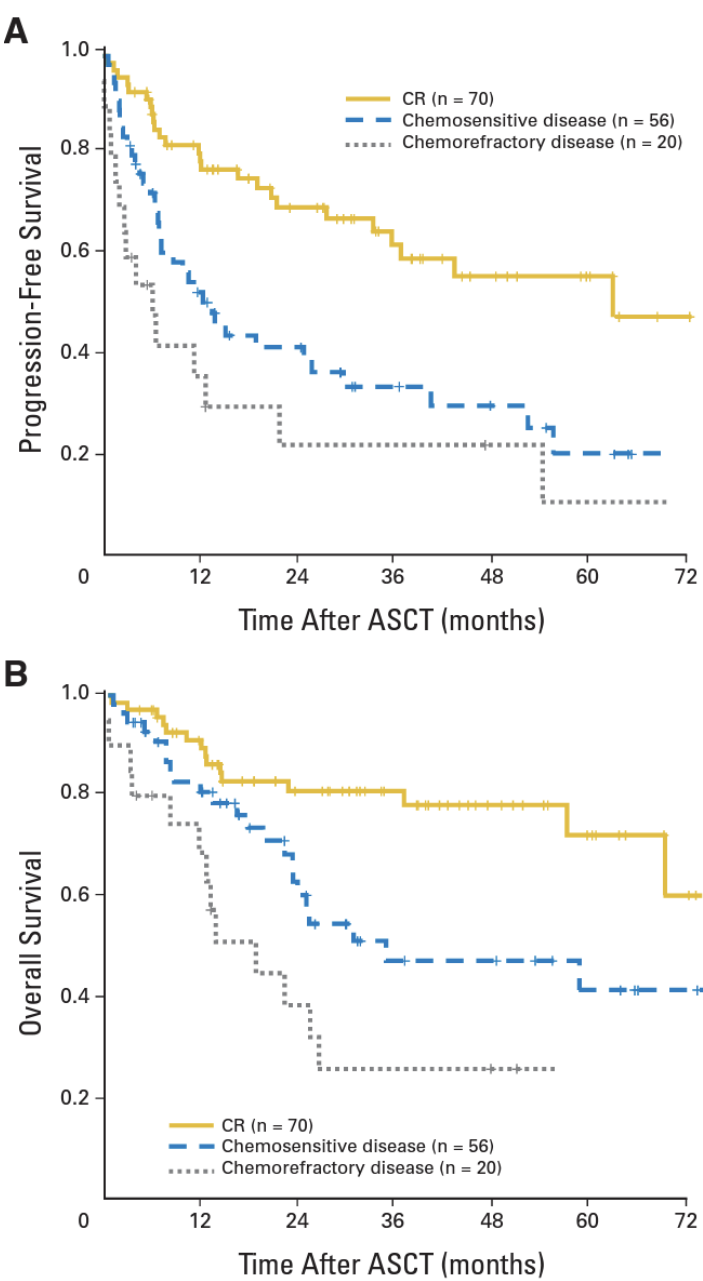
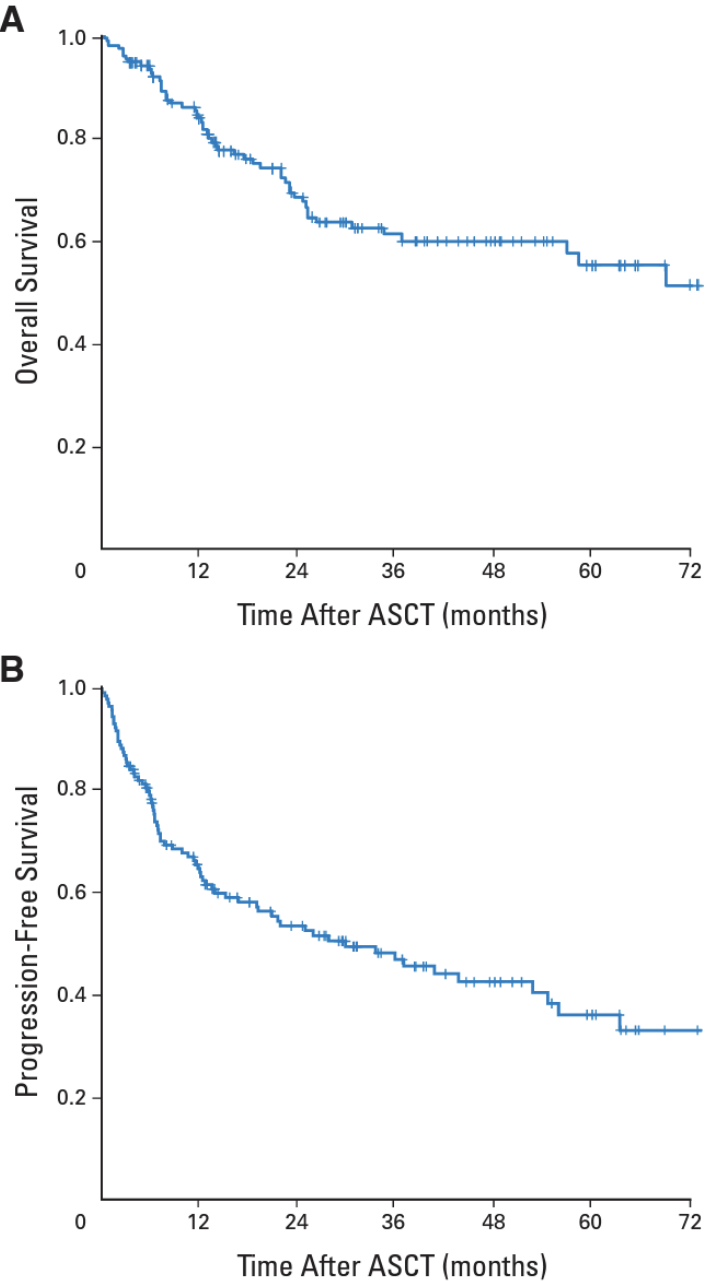
Up-Front Autologous Stem-Cell Transplantation in Peripheral T-Cell Lymphoma: NLG-T-01

Francesco d'Amore, Thomas Relander, Grete F. Lauritzsen, Esa Jantunen, Hans Hagberg, Harald Anderson, Harald Holte, Anders Österborg, Mats Merup, Peter Brown, Outi Kuittinen, Martin Erlanson, Bjørn Østenstad, Unn-Merete Fagerli, Ole V. Gadeberg, Christer Sundström, Jan Delabie, Elisabeth Ralfkiaer, Martine Vornanen, and Helle E. Toldbod



High-Dose Therapy and Autologous Stem-Cell Transplantation in Angioimmunoblastic Lymphoma: Complete Remission at Transplantation Is the Major Determinant of Outcome—Lymphoma Working Party of the European Group for Blood and Marrow Transplantation

Charalampia Kyriakou, Carmen Canals, Anthony Goldstone, Dolores Caballero, Bernd Metzner, Guido Kobbe, Hans-Jochem Kolb, Joachim Kienast, Peter Reimer, Jurgen Finke, Gunnar Oberg, Ann Hunter, Niklas Theorin, Anna Sureda, and Norbert Schmitz

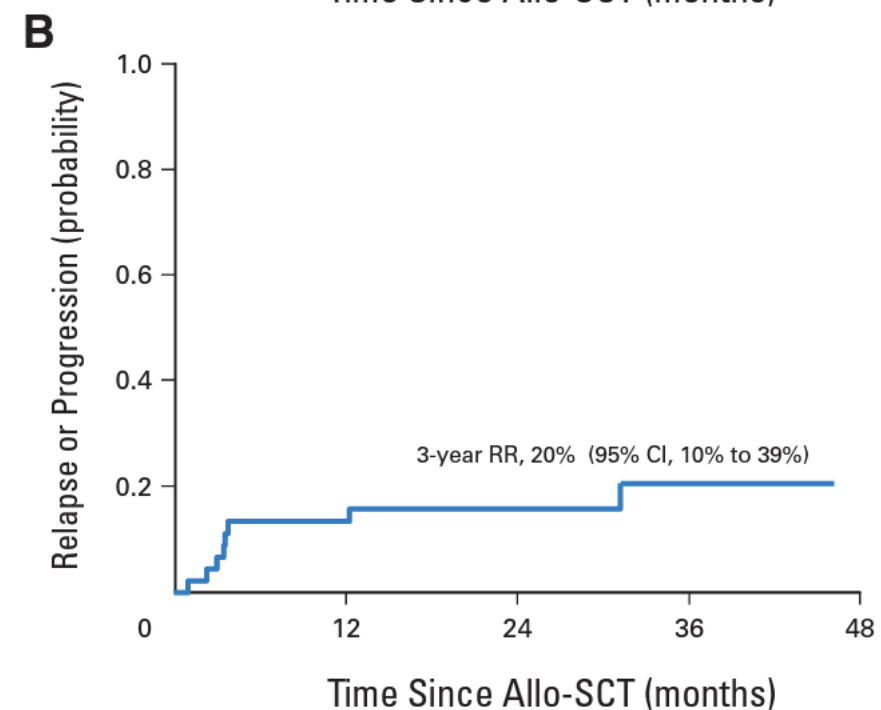
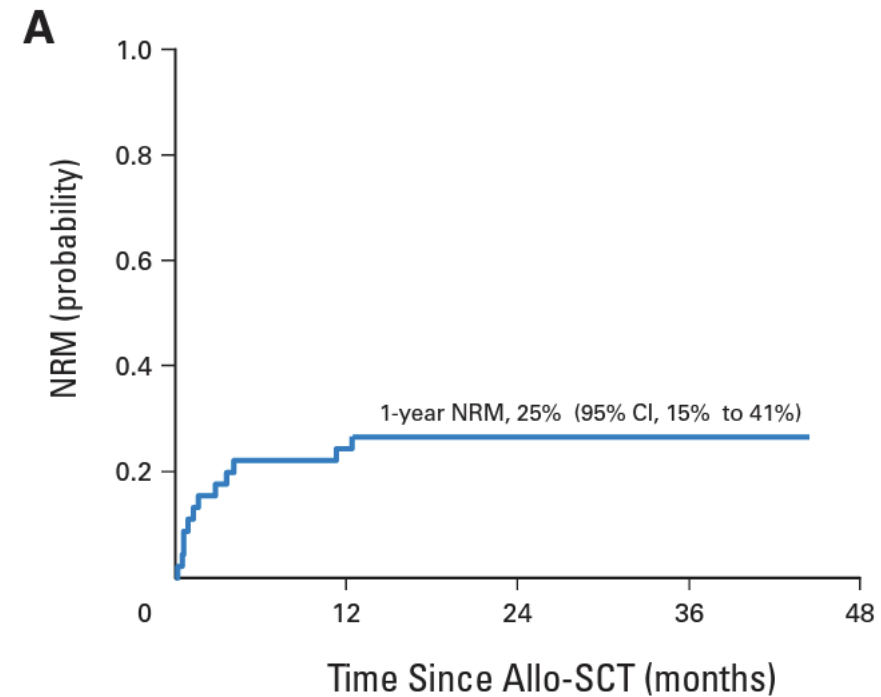
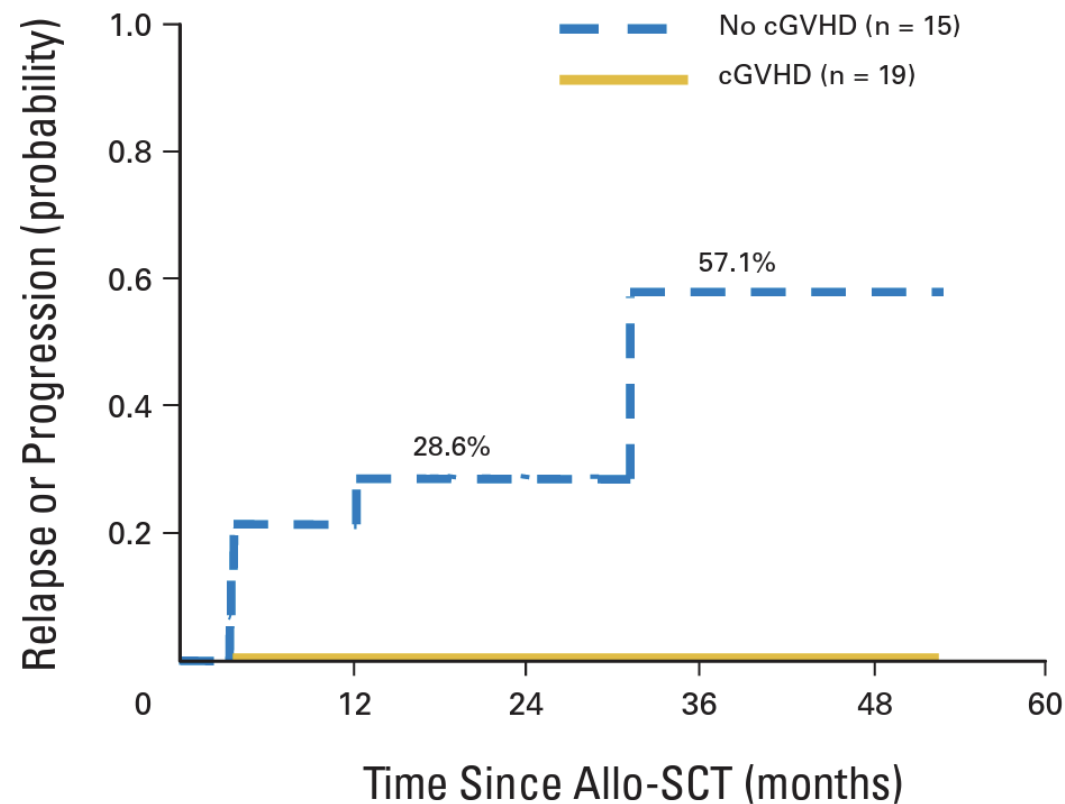


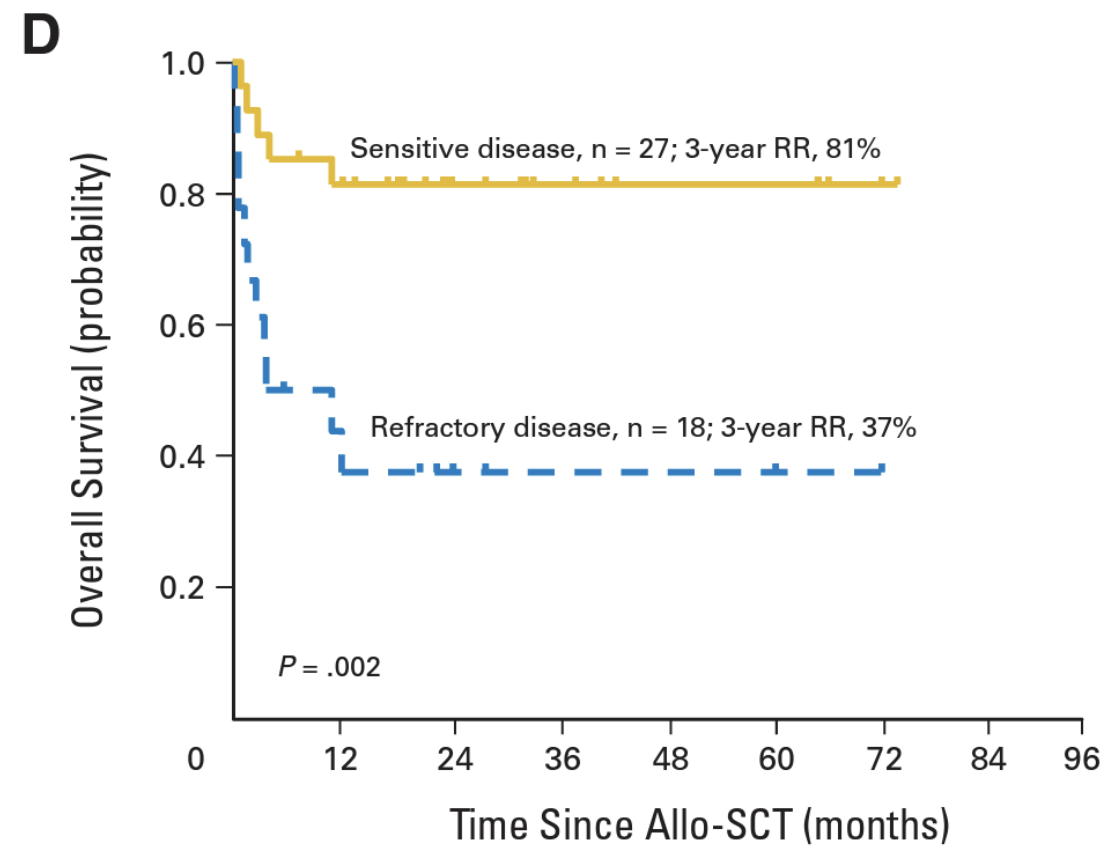
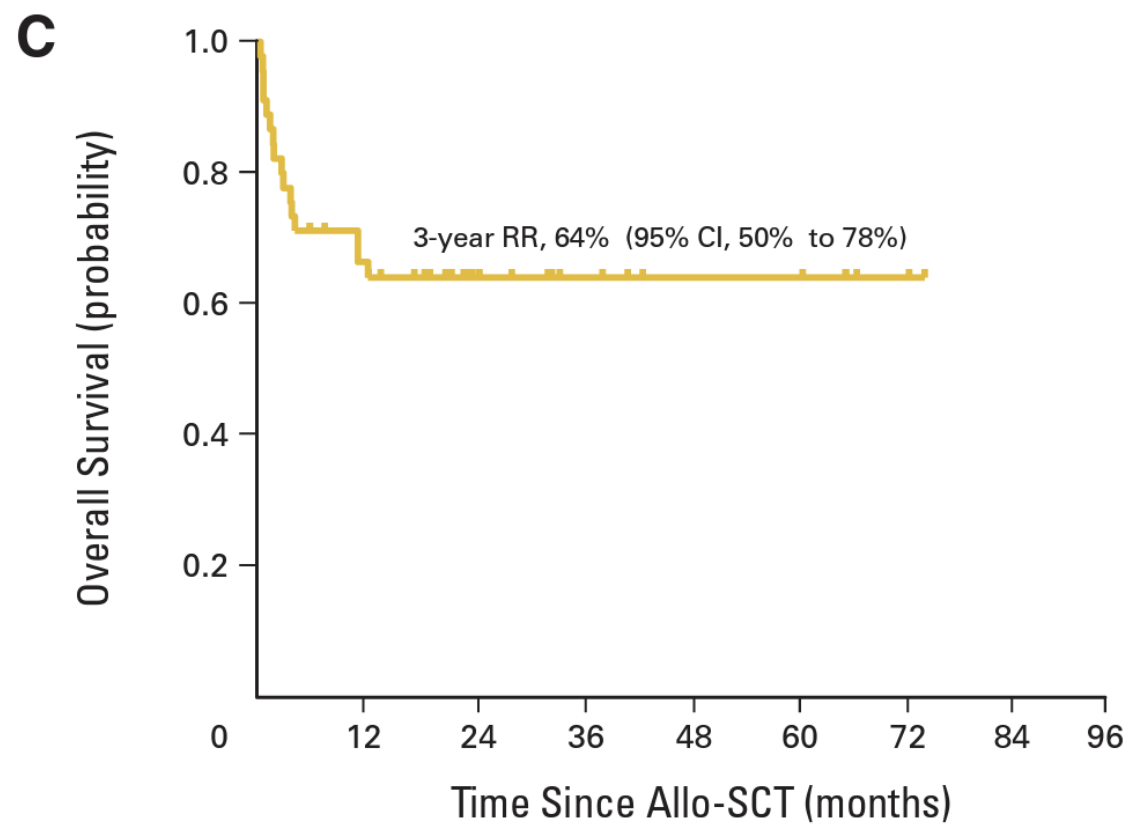
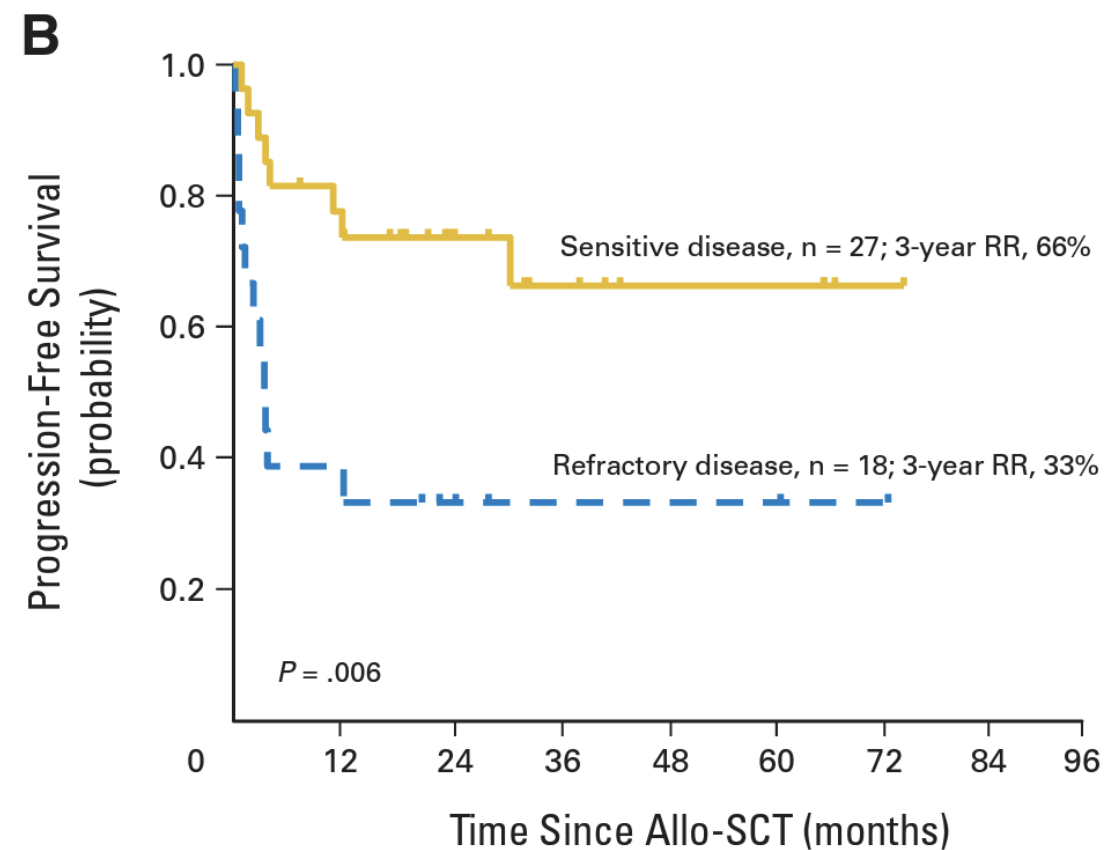
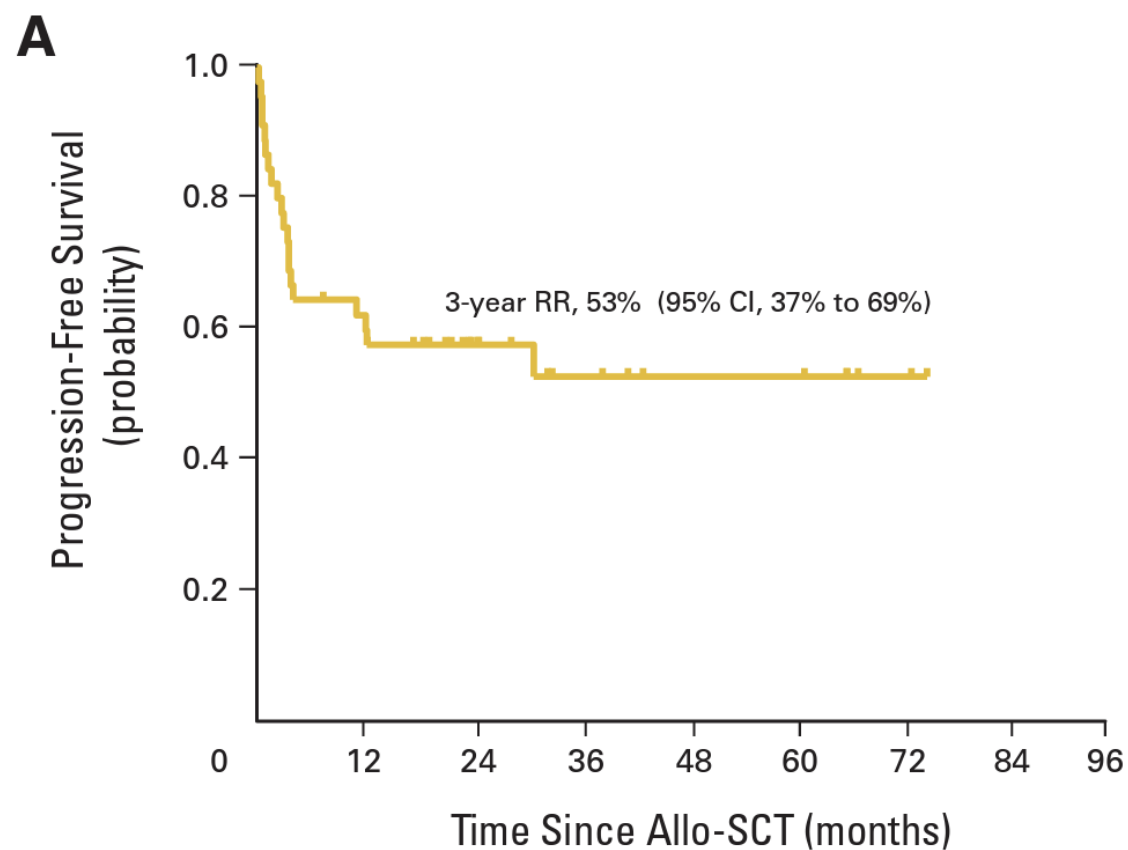
Adverse Prognostic Factor	Multivariate Analysis		
	Relative Risk	95% CI	P
NRM			
Disease status at ASCT			
Chemotherapy-refractory v chemotherapy-sensitive	9.5	2.2 to 41	.003
Age \geq 60 years at ASCT	5.6	1.3 to 24	.02
Karnofsky score < 80 at ASCT	3.5	0.7 to 19.0	.1
Relapse/progression			
Disease status at ASCT			
Chemotherapy-sensitive v CR	2.0	1.2 to 3.4	.01
Chemotherapy-refractory v CR	2.6	1.2 to 5.3	.01
Treatment lines prior to ASCT \geq 2	5.2	1.2 to 22.4	.03
Disease stage at diagnosis IV v II to III	1.9	0.9 to 4.0	.08
Conditioning regimen			
Chemotherapy alone v TBI/chemotherapy	3.5	1.1 to 11.4	.04
PFS			
Disease status at ASCT			
Chemotherapy-sensitive v CR	2.7	1.6 to 4.6	< .001
Chemotherapy-refractory v CR	3.6	1.9 to 6.8	< .001
Karnofsky score < 80 at ASCT	3.6	1.5 to 8.7	.005
Treatment lines prior to ASCT \geq 2	4.5	1.0 to 19.2	.04
Conditioning regimen			
Chemotherapy alone v TBI/chemotherapy	2.5	0.9 to 7.0	.07
OS			
Disease status at ASCT			
Chemotherapy-sensitive v CR	2.5	1.3 to 4.8	.006
Chemotherapy-refractory v CR	5.4	2.5 to 11.8	< .001
Karnofsky score < 80 at ASCT	2.9	1.1 to 7.6	.03
Elevated LDH at diagnosis	2.5	1.1 to 5.7	.03
Treatment lines prior to ASCT \geq 2	3.4	1.0 to 11.2	.05
Age \geq 60 years at ASCT	1.7	0.94 to 3.2	.08

- Most patients with ALK-positive anaplastic large cell lymphoma (ALCL). Such patients have five-year overall survival (OS) rates ranging from 70 to 93 percent after anthracycline-based chemotherapy.
- Patients with localized PTCL, not otherwise specified (PTCL, NOS) and a low or low-intermediate International Prognostic Index (IPI) score. Five-year OS rates are 74 and 49 percent among patients with a low (ie, zero to 1) or low-intermediate (ie, 2) IPI score, respectively

Allogeneic Stem Cell Transplantation Is Able to Induce Long-Term Remissions in Angioimmunoblastic T-Cell Lymphoma: A Retrospective Study From the Lymphoma Working Party of the European Group for Blood and Marrow Transplantation

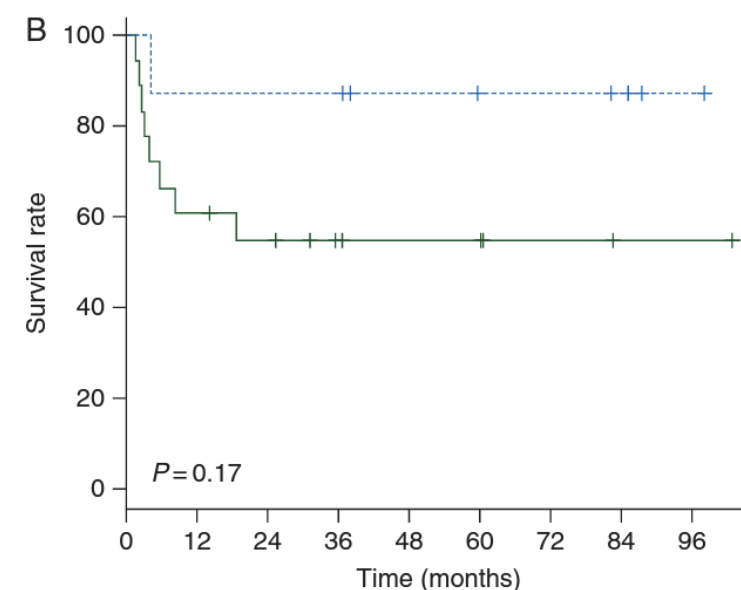
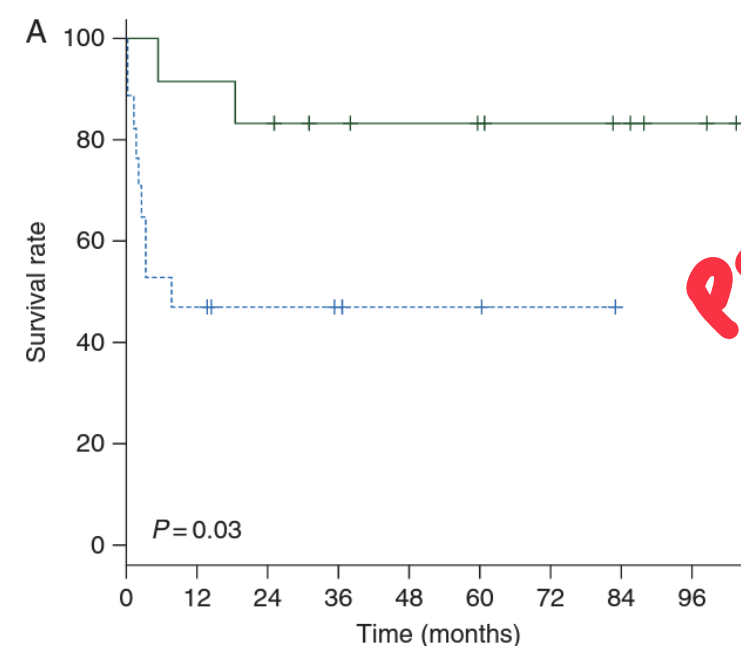
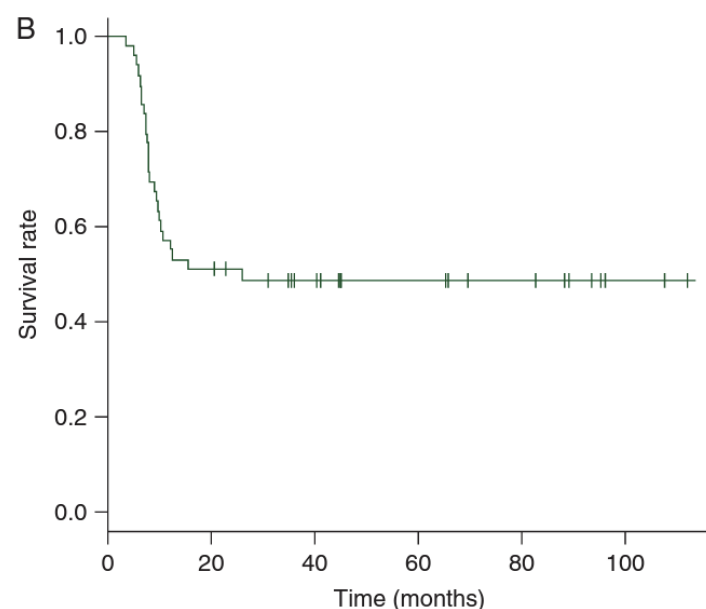
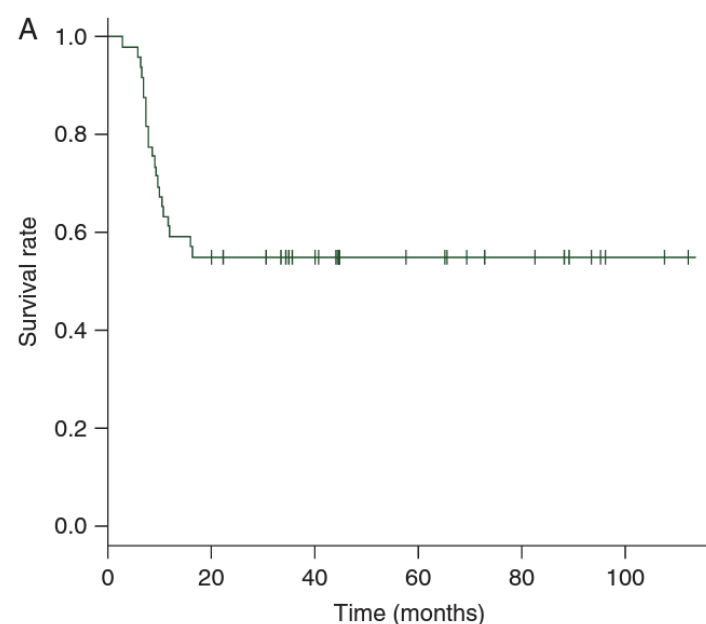
Charalampia Kyriakou, Carmen Canals, Jürgen Finke, Guido Kobbe, Jean-Luc Harousseau, Hans-Jochem Kolb, Nicolas Novitzky, Anthony H. Goldstone, Anna Sureda, and Norbert Schmitz





Upfront allogeneic stem-cell transplantation for patients with nonlocalized untreated peripheral T-cell lymphoma: an intention-to-treat analysis from a single center

M. Loirat¹, P. Chevallier¹, C. Leux², A. Moreau³, C. Bossard³, T. Guillaume¹, T. Gastinne¹, J. Delaunay¹, N. Blin¹, B. Mahé¹, V. Dubruille¹, K. Augeul-Meunier¹, P. Peterlin¹, H. Maisonneuve⁴, P. Moreau⁵, N. Juge-Morineau⁶, H. Jardel⁷, M. Mohty⁸, P. Moreau¹ & S. Le Gouill^{1,9,10*}



- After 9 months in follow up CT-scan, a 3cm mass was found in anterior mediastinum
- Bx : PTCL, NOS

Which is your choice?

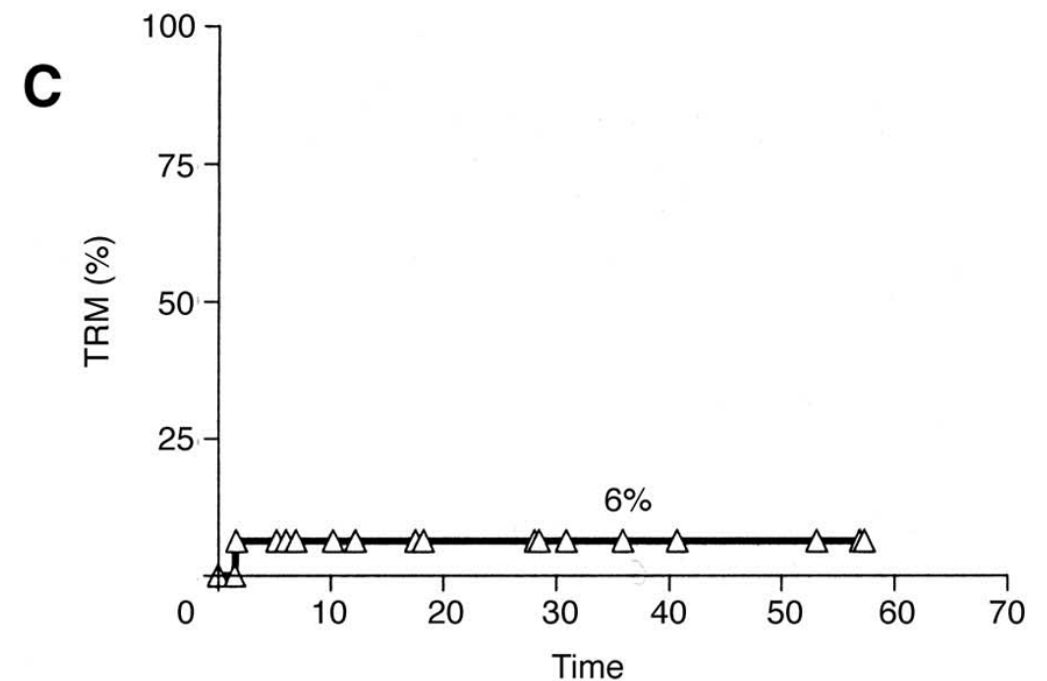
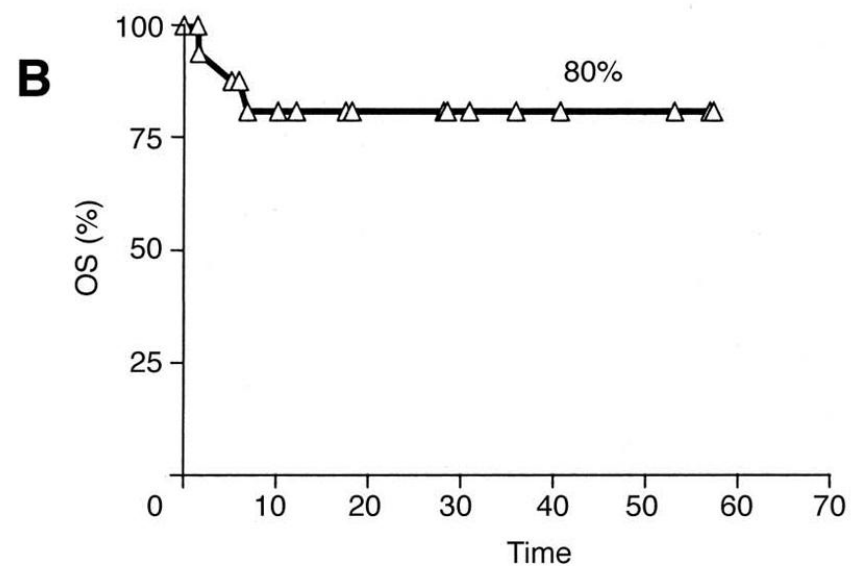
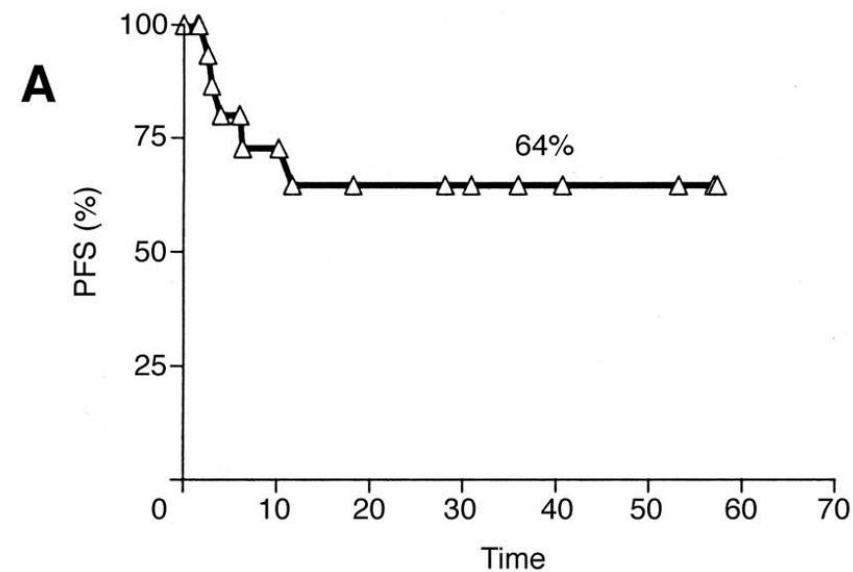
1. Salvage chemotherapy
2. Brentuximab Vedotin
3. Brentuximab Vedotin Plus chemotherapy
4. Pralitrexate

Auto-HSCT vs. Allo-HSCT

- For patients who have not undergone a prior autologous HCT and who achieve a CR with salvage chemotherapy, autologous HCT suggest rather than allogeneic HCT.
- For patients who have undergone a prior autologous HCT, have a PR with salvage therapy, or require several therapies at relapse to achieve a CR, favor allogeneic HCT

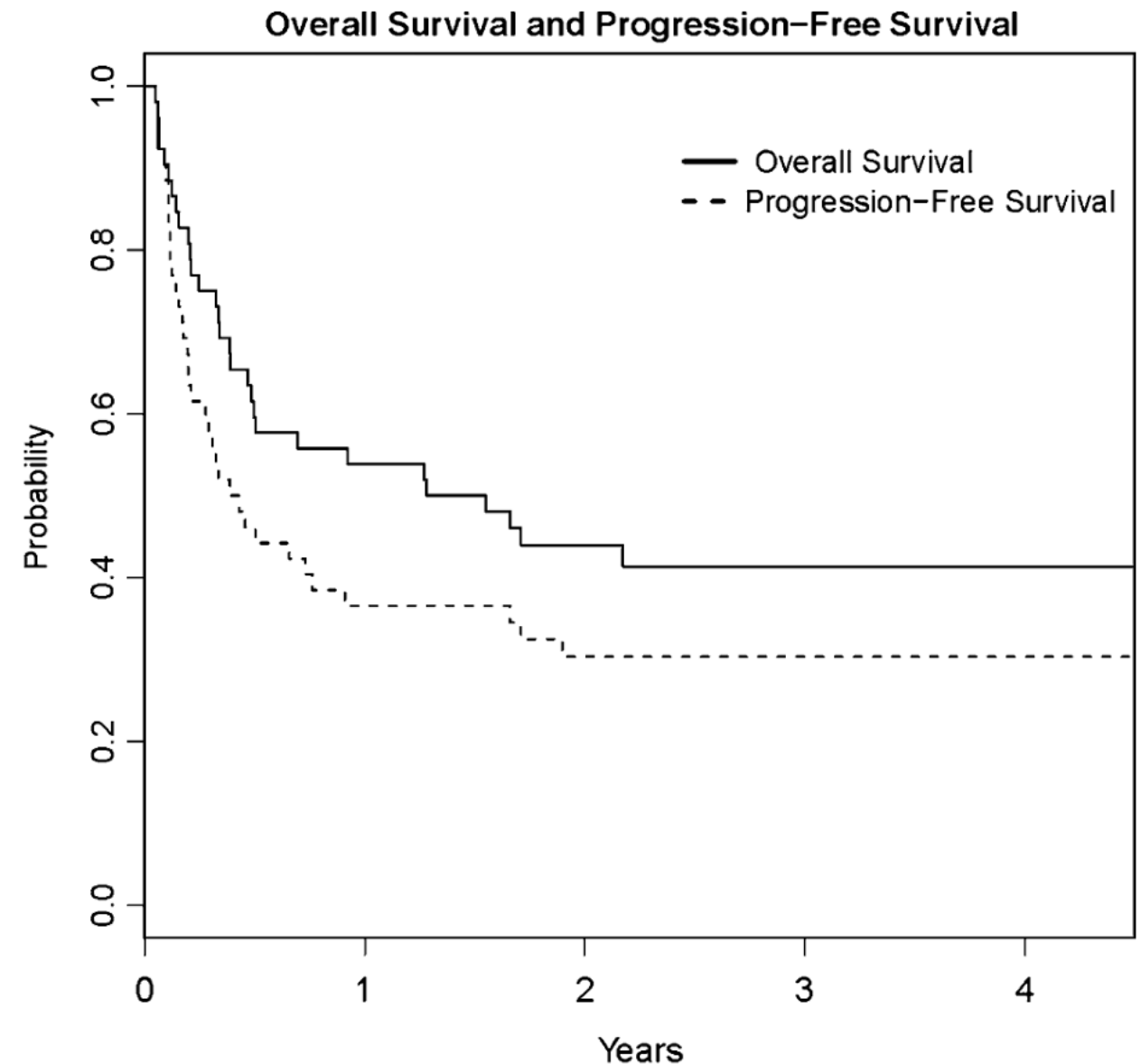
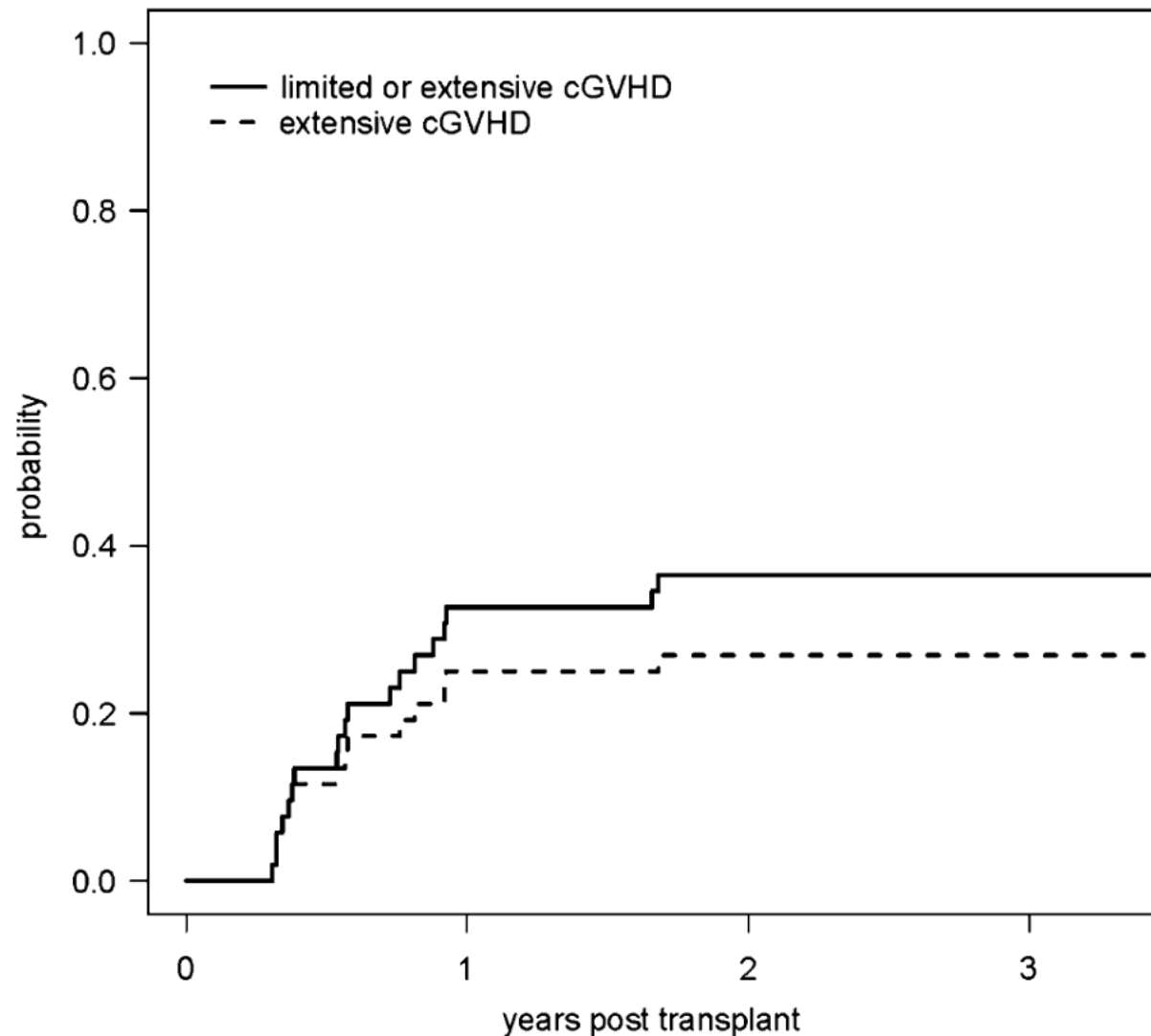
Graft-Versus-Lymphoma Effect in Relapsed Peripheral T-Cell Non-Hodgkin's Lymphomas After Reduced-Intensity Conditioning Followed by Allogeneic Transplantation of Hematopoietic Cells

Paolo Corradini, Anna Doderò, Francesco Zallio, Daniele Caracciolo, Marco Casini, Marco Bregni, Franco Narni, Francesca Patriarca, Mario Boccadoro, Fabio Benedetti, A. Rambaldi, Alessandro M. Gianni, and Corrado Tarella



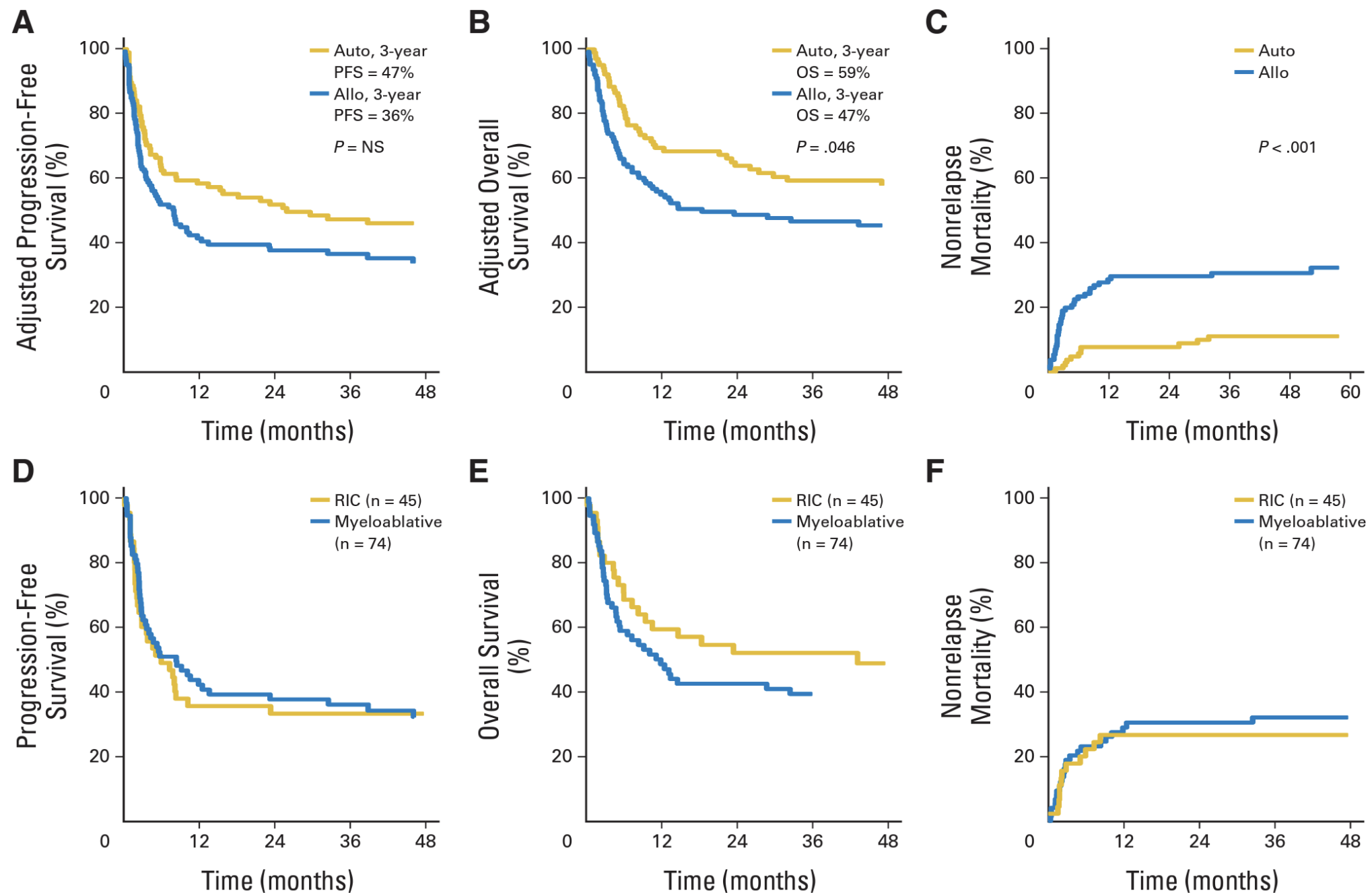
A large single-center experience with allogeneic stem-cell transplantation for peripheral T-cell non-Hodgkin lymphoma and advanced mycosis fungoides/Sezary syndrome

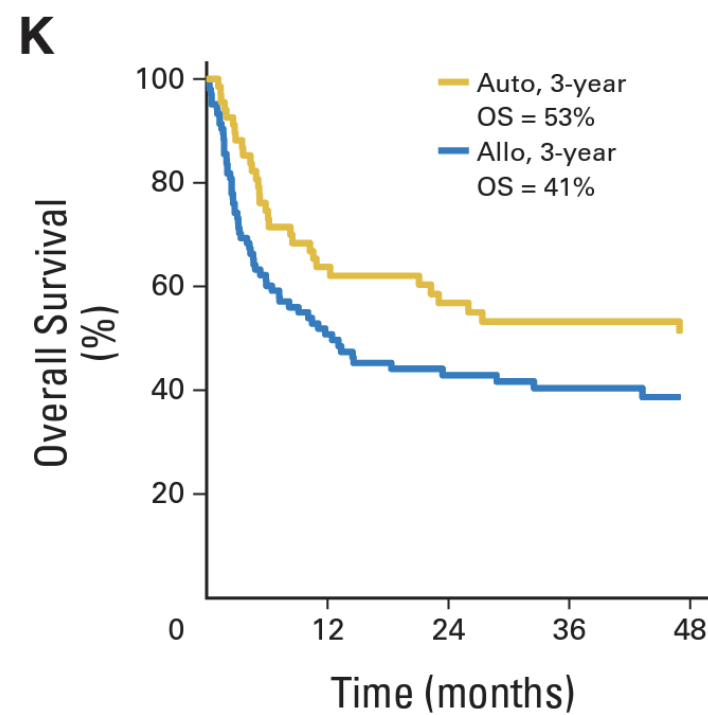
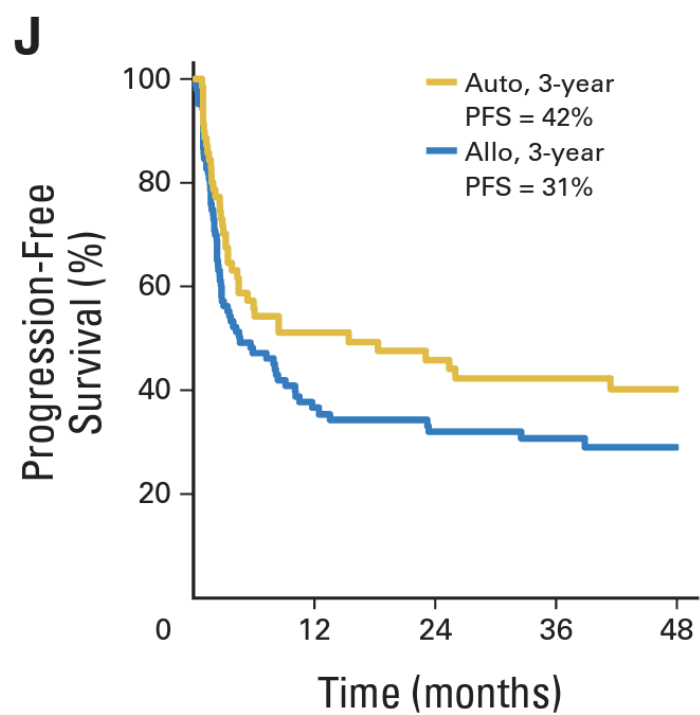
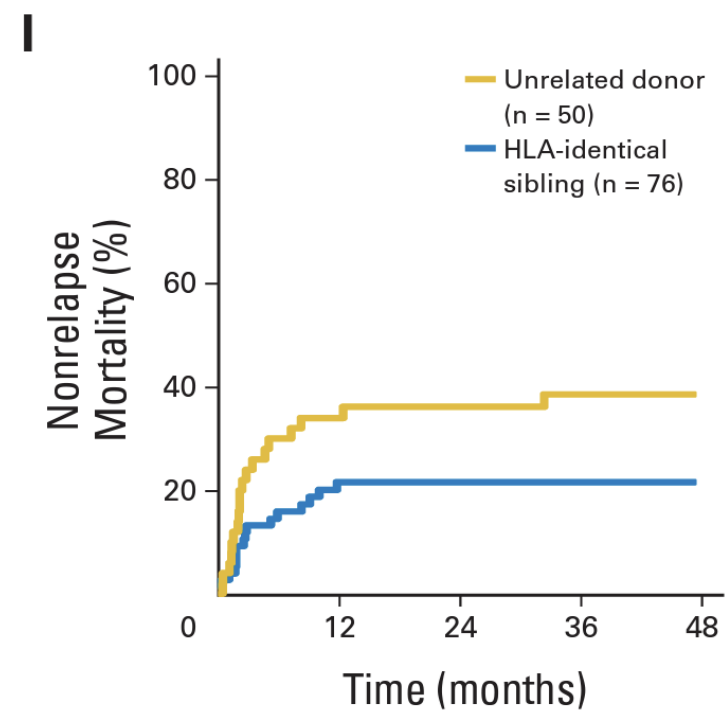
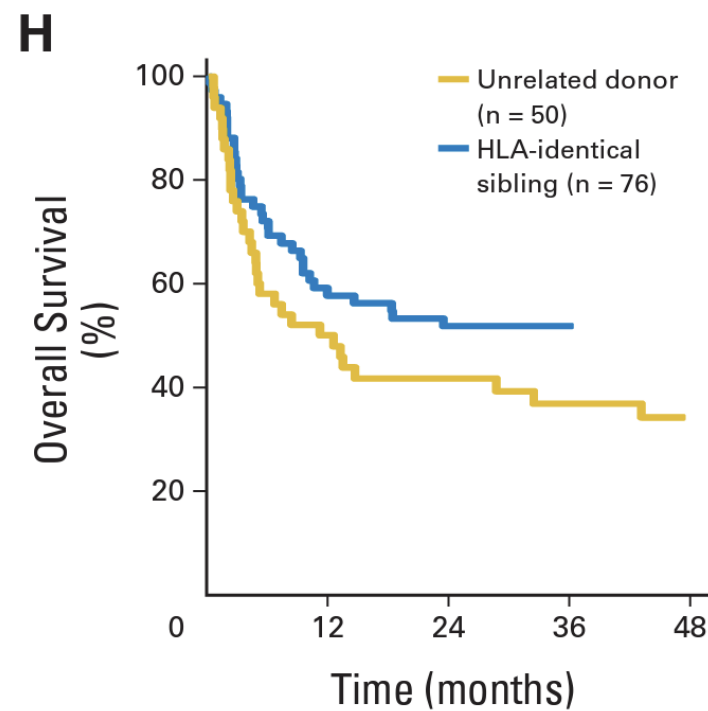
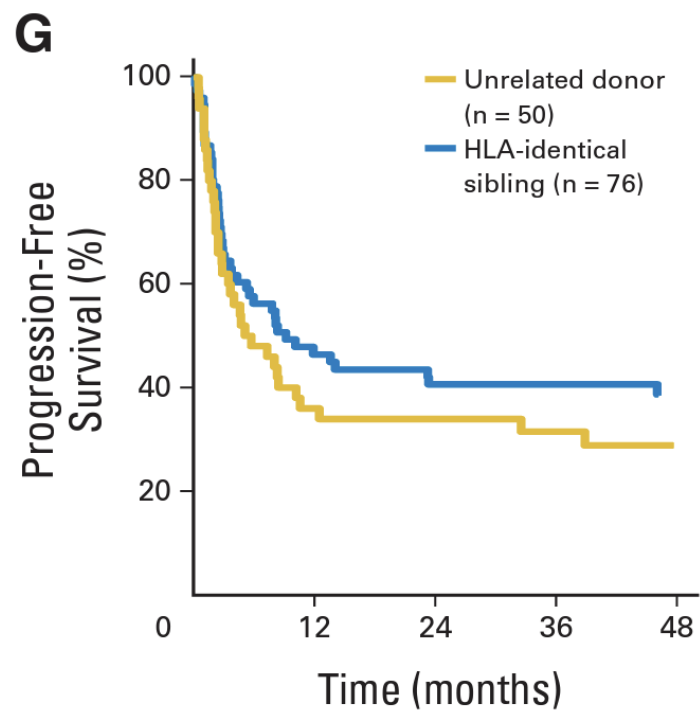
E. D. Jacobsen^{1*}, H. T. Kim², V. T. Ho¹, C. S. Cutler¹, J. Koreth¹, D. C. Fisher¹, P. Armand¹, E. P. Alyea¹, A. S. Freedman¹, R. J. Soiffer¹ & J. H. Antin¹



Hematopoietic Cell Transplantation for Systemic Mature T-Cell Non-Hodgkin Lymphoma

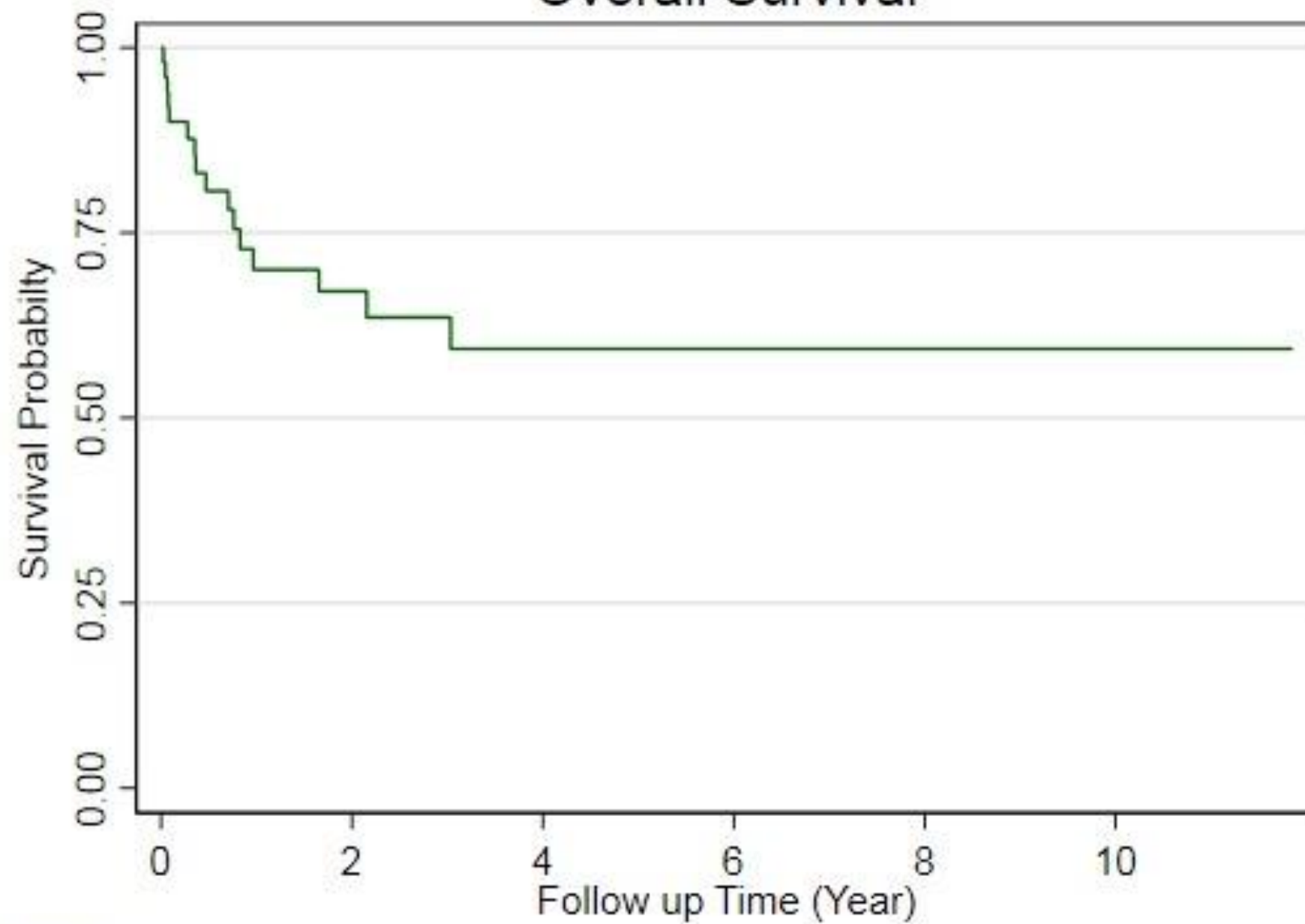
Sonali M. Smith, Linda J. Burns, Koen van Besien, Jennifer LeRademacher, Wensheng He, Timothy S. Fenske, Ritsuro Suzuki, Jack W. Hsu, Harry C. Schouten, Gregory A. Hale, Leona A. Holmberg, Anna Sureda, Cesar O. Freytes, Richard Thomas Maziarz, David J. Inwards, Robert Peter Gale, Thomas G. Gross, Mitchell S. Cairo, Luciano J. Costa, Hillard M. Lazarus, Peter H. Wiernik, Dipnarine Maharaj, Ginna G. Laport, Silvia Montoto, and Parameswaran N. Hari





exclude CR

Overall Survival



Number at risk

50

20

9

4

3

1



Research Institute for
Oncology/Hematology
Stem Cell Transplantation

پژوهشگاه
آنکولوژی/هماتولوژی
پیوند سلولهای بنیادی

Emergency department