

3rd edition

Unmet challenges in high risk hematological malignancies: from benchside to clinical practice

Turin, September 21-22, 2023

Starhotels Majestic

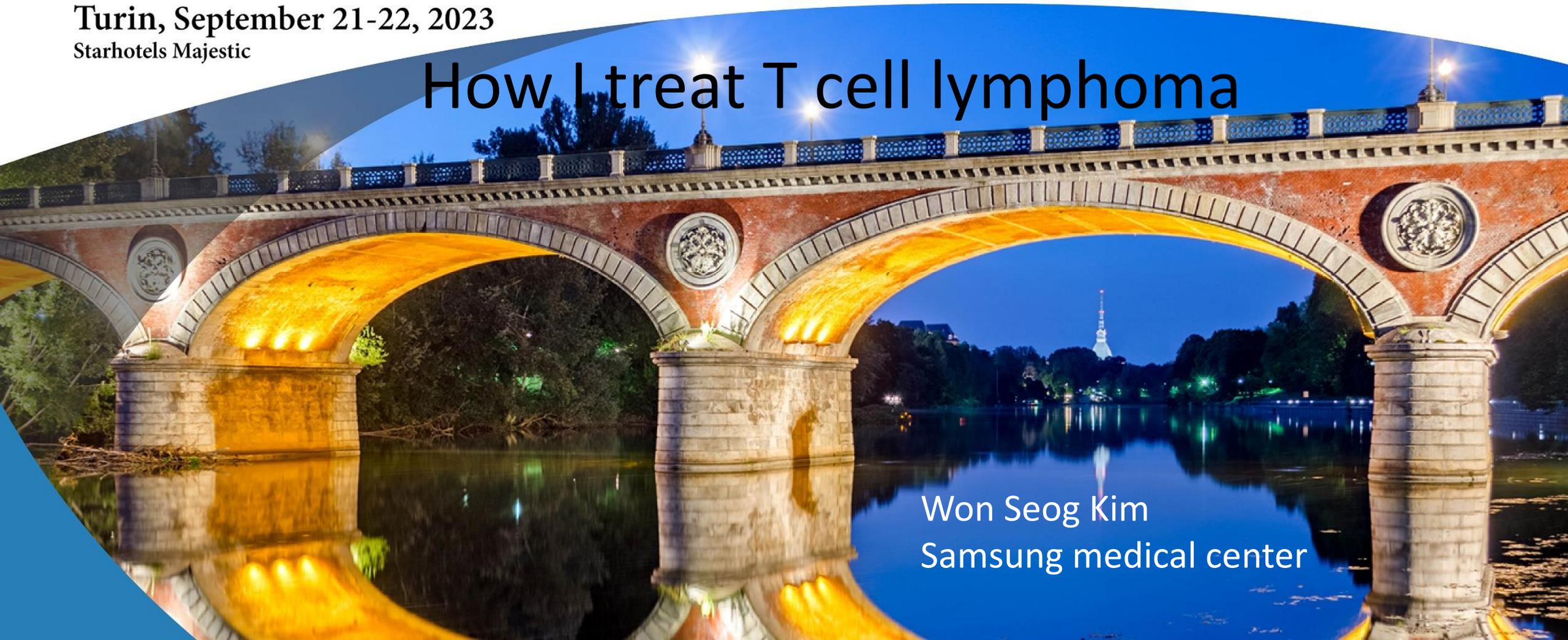
Scientific board:

Marco Ladetto (Alessandria)

Umberto Vitolo (Candiolo-TO)

How I treat T cell lymphoma

Won Seog Kim
Samsung medical center



Disclosure

- **Grant/Research support from: Sanofi, Beigene, Boryong, Roche, Kyowa-Kirin, Donga**

CHOP as a standard

1002

THE NEW ENGLAND JOURNAL OF MEDICINE

April 8, 1993

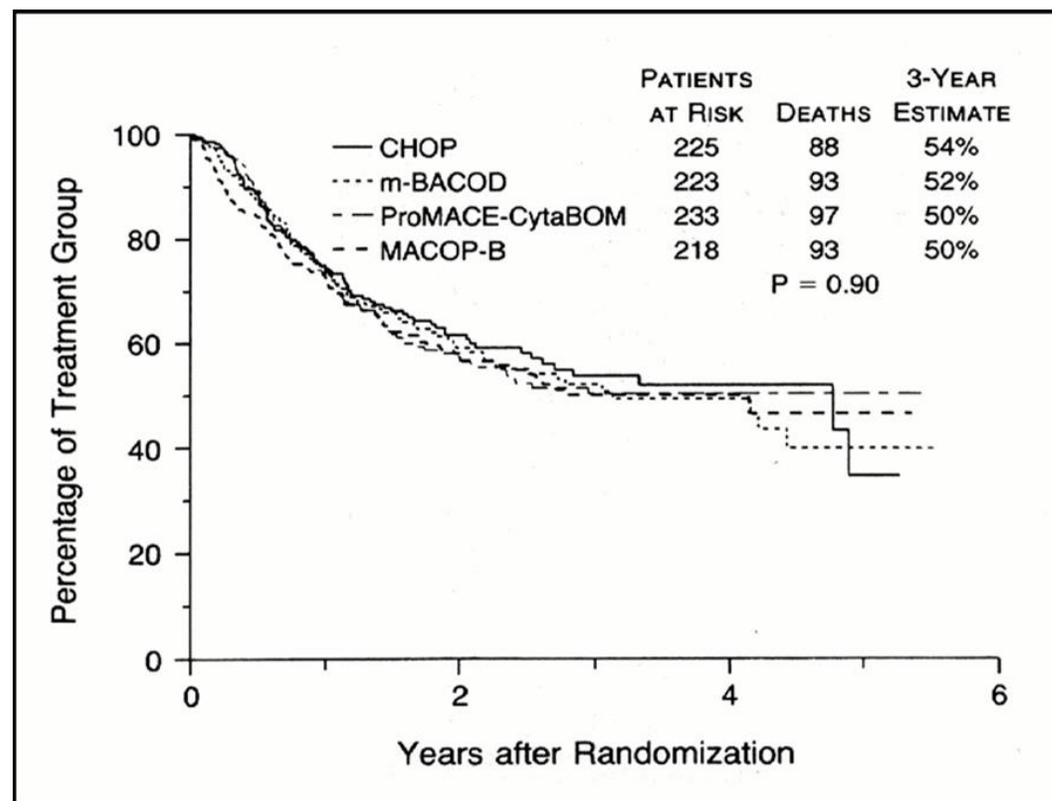
COMPARISON OF A STANDARD REGIMEN (CHOP) WITH THREE INTENSIVE CHEMOTHERAPY REGIMENS FOR ADVANCED NON-HODGKIN'S LYMPHOMA

RICHARD I. FISHER, M.D., ELLEN R. GAYNOR, M.D., STEVE DAHLBERG, M.S., MARTIN M. OKEN, M.D., THOMAS M. GROGAN, M.D., EVONNE M. MIZE, JOHN H. GLICK, M.D., CHARLES A. COLTMAN, JR., M.D., AND THOMAS P. MILLER, M.D.

CHARACTERISTIC	CHOP (N = 225)	m-BACOD (N = 223)	ProMACE- CytaBOM (N = 233)	MACOP-B (N = 218)
Age				
Median (yr)	56	57	54	57
Range (yr)	15-79	18-81	17-81	19-79
≥65 yr (%)	26	25	27	24
Marrow involvement (%)	25	26	27	27
Bulky disease (%)	40	41	41	40
LDH >250 U/liter (%)*	45	43	42	43
Working formulation group (%)†				
D or E	14	15	15	14
F, G, or H	81	82	81	82
J	5	4	4	4

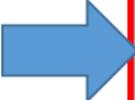
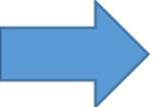
*LDH denotes lactate dehydrogenase.

†These groups were defined according to the system of the Non-Hodgkin's Lymphoma Pathologic Classification Project.¹⁰



CHOP as a standard

The Working Formulation

Low Grade	Intermediate Grade	High Grade
Small lymphocytic (A)	Follicular large cell (D) 	Large cell immunoblastic (H)
Follicular small cleaved cell (B)	Diffuse small cleaved cell (E)	Lymphoblastic (I)
Follicular small cleaved and large cell (C) 	Diffuse mixed and small and large cell (F)	Small non-cleaved cell (Burkitt and non-Burkitt type) (J)
	Diffuse large cell (G)	

Dilemma in CHOP era

ENKTL can not be a candidate for CHOP treatment.

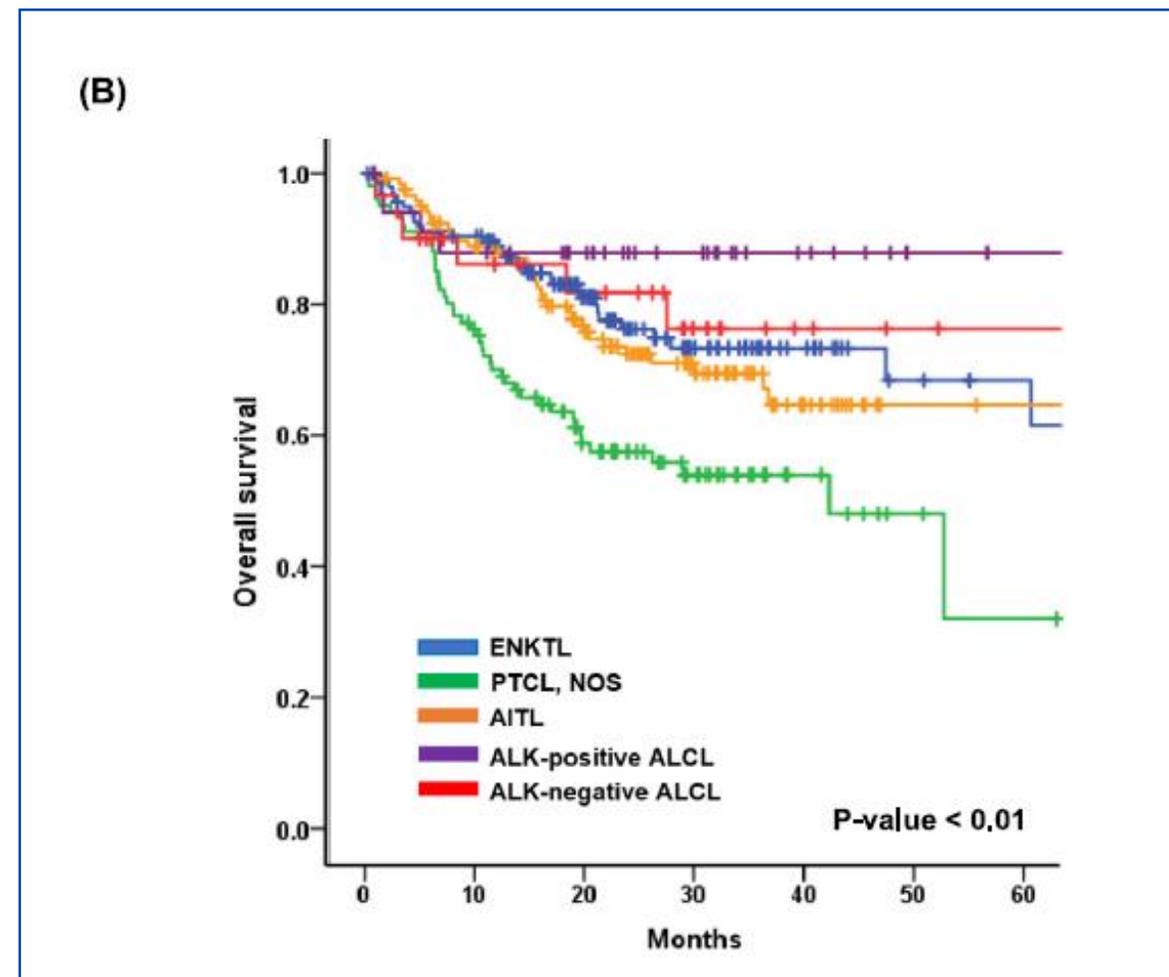
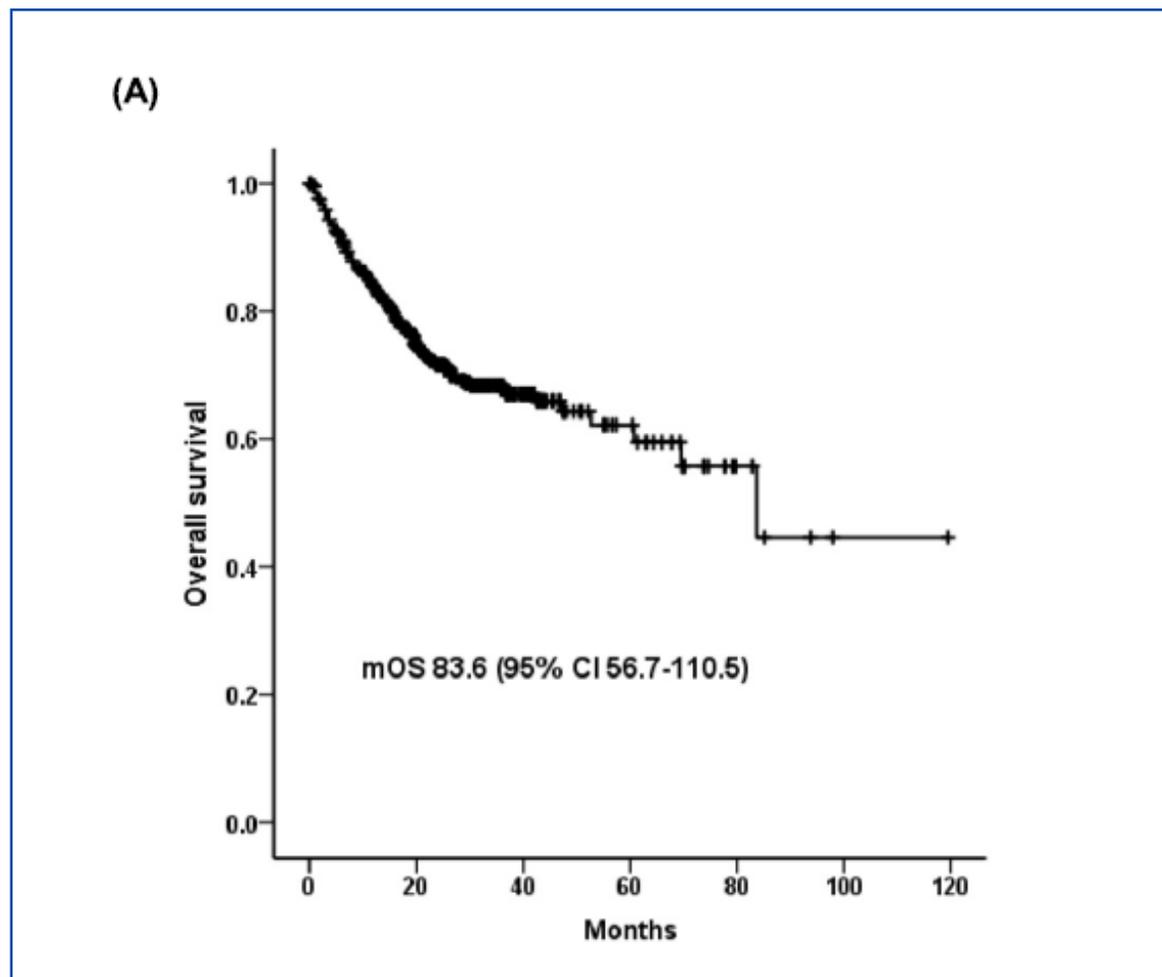
CHOP : is it a standard induction regimen?

CHOP is not inferior/superior to other combination chemo-therapies

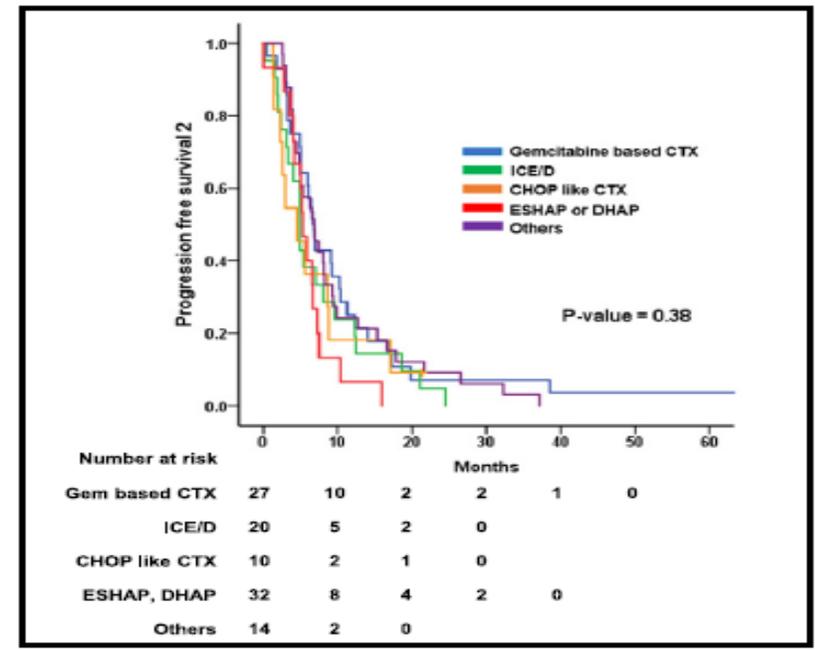
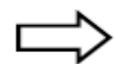
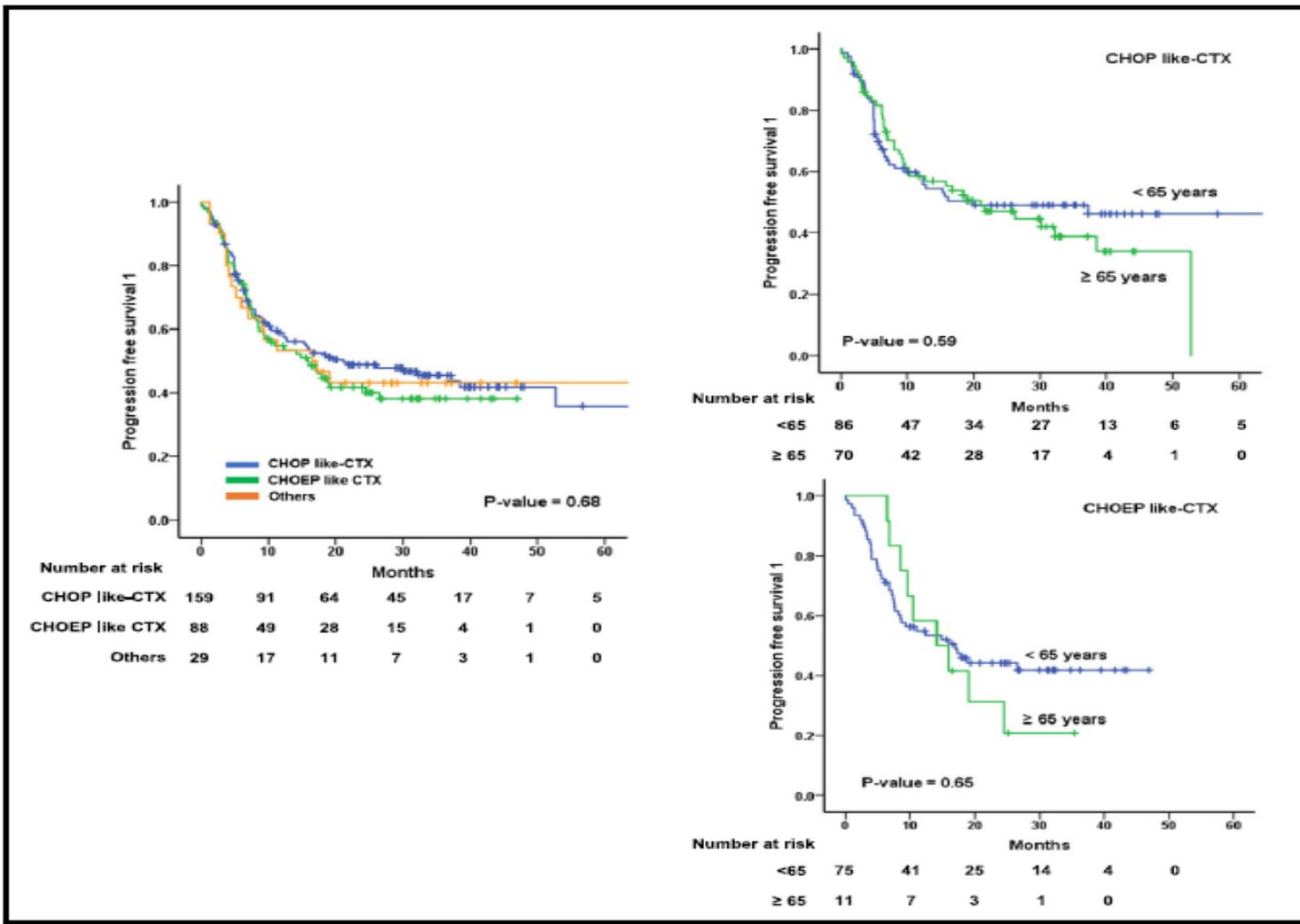
If CHOP is standard, still different biology under same treatment

Upfront auto-HSCT : for every young and fit PTCL patients?

Current practice in Asia



Current practice in Asia



CHOP+X for PTCLs

	Alemtuzumab	Bortezomib	Bevacizumab	Denileukin	Everolimus
N	20	46	39	49	30
Median age	50 years	51 years	60 years	52 years	54 years
% ≥ 6 cycle	85	63	72	59	67
ORR/CRR %	90/65	76/65	90/49	65/55	90/57
Median PFS	10 months	9 months	8 months	12 months	11 months
2-year PFS	27%	37% (2-year)	25% (2-year)	43%	33%
Median OS	27 months	27 months	22 months	Not reached	Not reached
2-year OS	55%	52%	42%	65%	70%

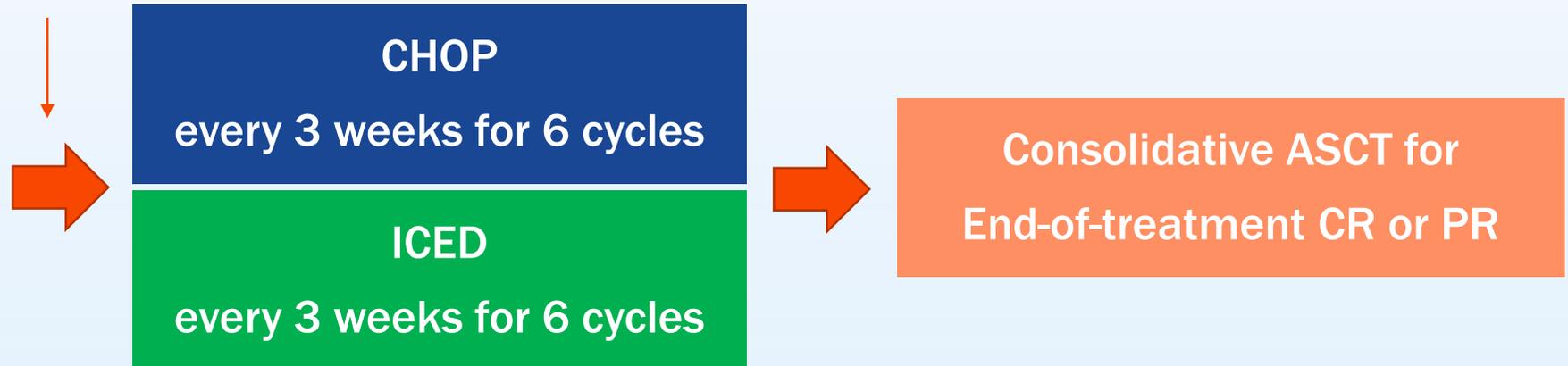
CHOP+X = CHOP

Study Scheme of ROSE trial

Stratification

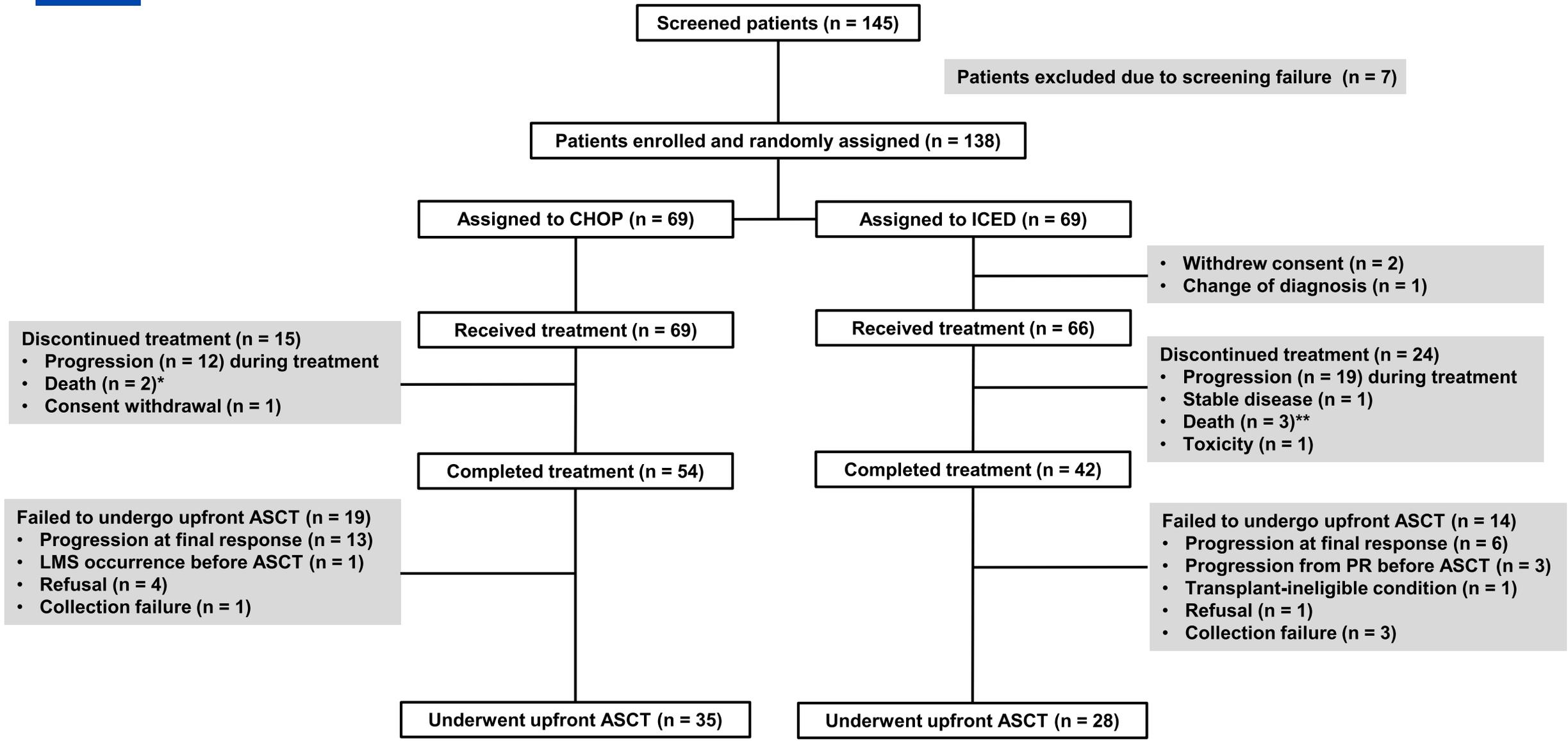
- IPI score ≤ 3 vs. 4/5
- Subtype

Adult patients with
Previously untreated
T-cell lymphoma



- **Primary endpoint: Progression-free survival**
- **Secondary endpoints: Response rate, Overall survival, Safety (ClinicalTrials.gov: NCT02445404)**

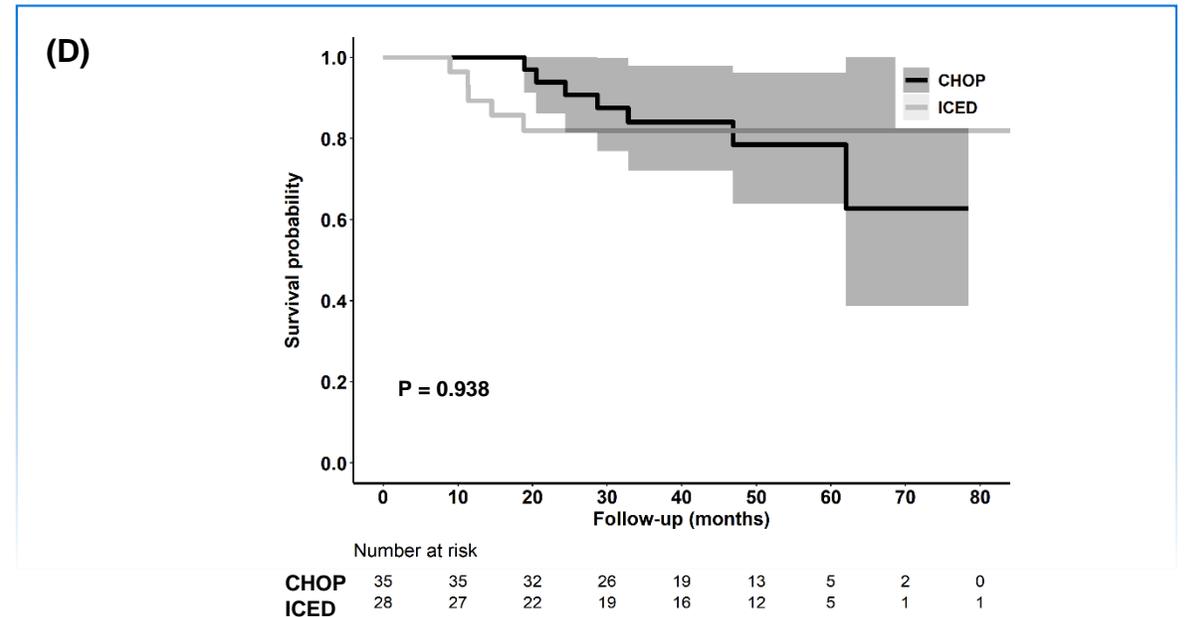
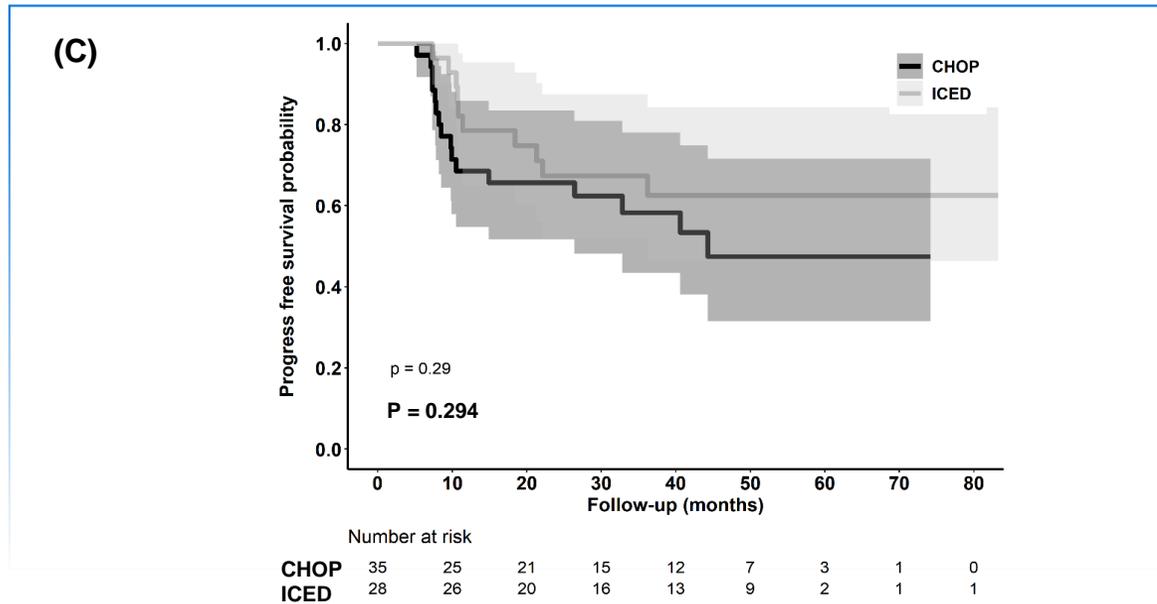
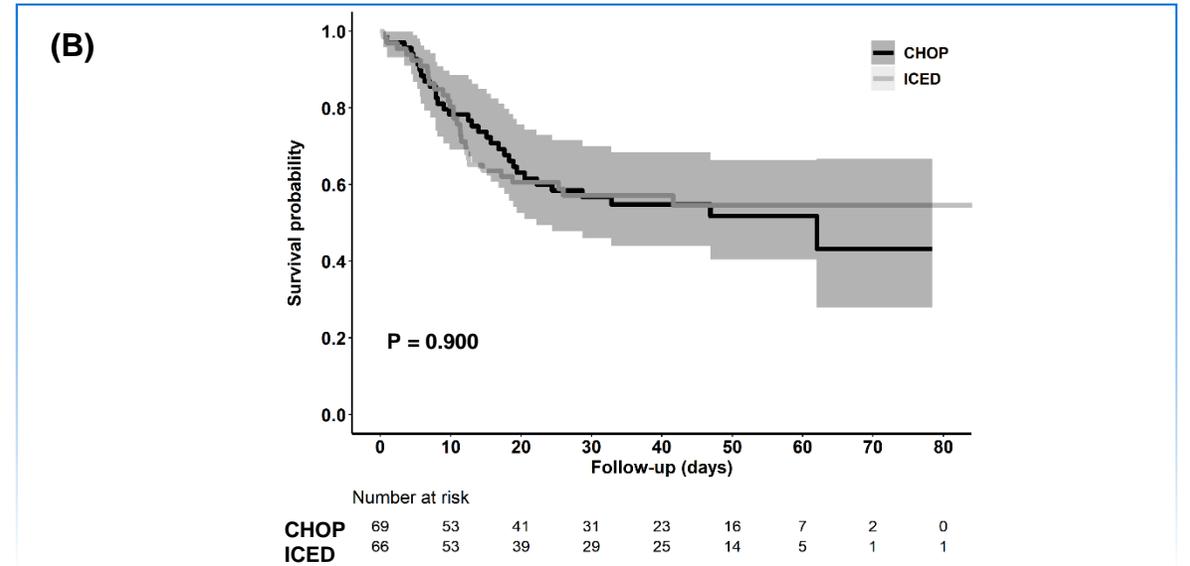
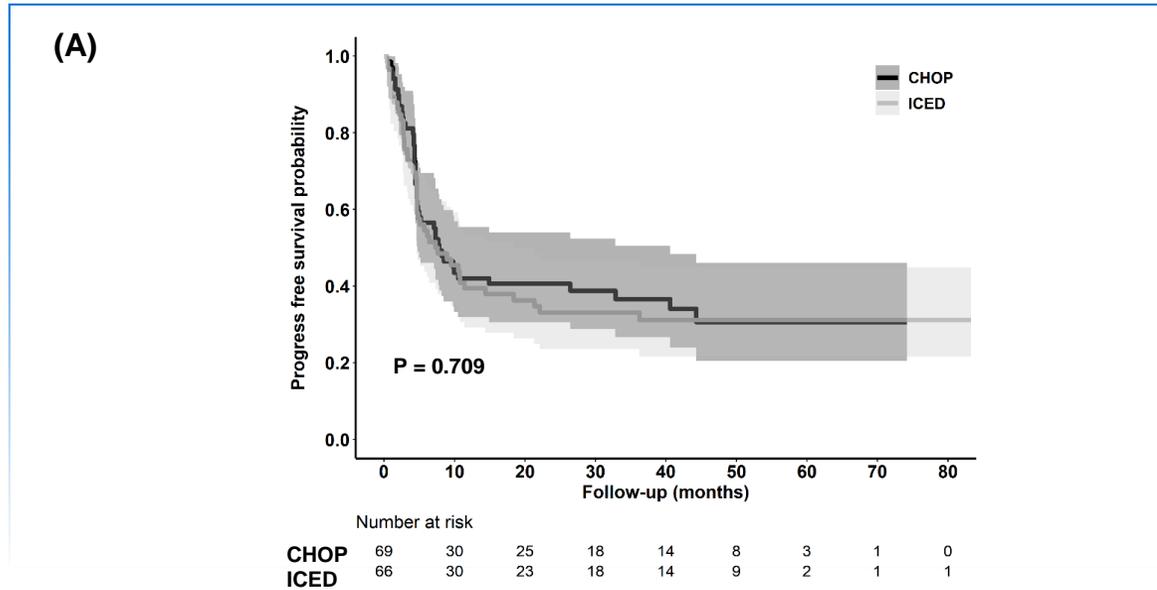
Figure 1



Air embolism after 1st, Perforation after 1st (n = 2)*

AMI after 1st, Sepsis after 1st, Unknown cause after 3rd (n = 3)**

Figure 3



CHOP vs. GEM-P : CHEMO-T Phase 2, Randomized Trial

CHOP arm

- CHOP every 3 weeks for six cycles

GEM-P arm

- Gemcitabine 1000 mg/m² on days 1, 8, and 15
- Cisplatin 100 mg/m² on day 15
- Methylprednisolone PO or IV 1000 mg on days 1–5 every 4 weeks for four cycles

Front-line therapy in previously untreated patients

UK and Australia

- Between June 2012 and Nov 2016

Characteristic	CHOP (n = 43)	GEM-P (n = 44)
Median age (Years, IQR)	64 (54-69)	61 (50-70)
Stage III/IV, n (%)	34 (79)	41 (93)
IPI score, n (%)		
▪ 0-1	9 (21)	8 (18)
▪ 2-3	26 (60)	25 (57)
▪ 4-5	8 (19)	11 (25)
Diagnosis, n (%)		
▪ PTCL-NOS	19 (44)	18 (41)
▪ ALK-, ALCL	6 (14)	8 (18)
▪ AITL	17 (40)	17 (39)
▪ EATL	1 (2)	1 (2)

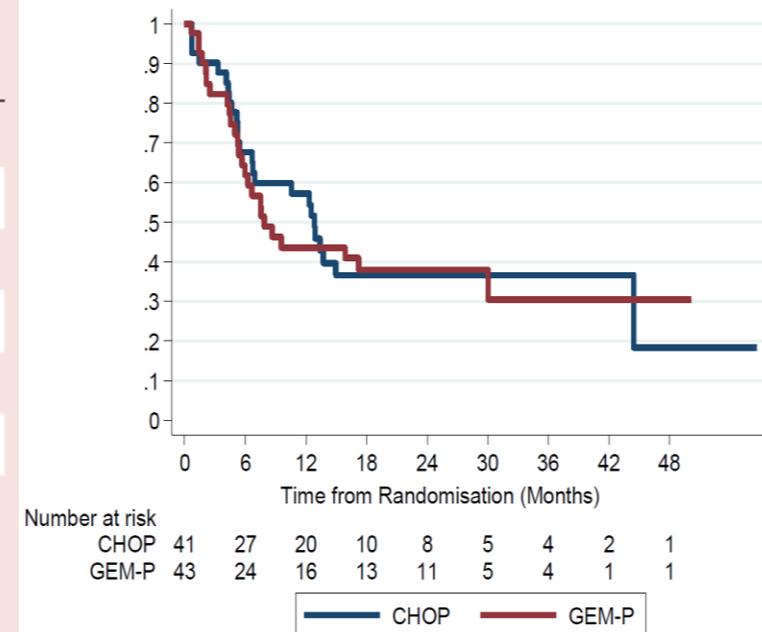
CHOP vs. GEM-P : No difference of outcome, early closed

	CHOP				GEM-P		
	Cyclophosphamide	Doxorubicin	Vincristine	Prednisolone	Gemcitabine	Cisplatin	Methylprednisolone
Total dose received (mg)	7960 (5080-8760)	540 (342-588)	12 (7-12)	2400 (1500-3000)	18262.5 (7060-21900)	361.5 (201.5-707.5)	20 000 (7500-20 000)
Relative dose intensity	98.1 (90.5-100)	97.9 (91.9-100.0)	99.2 (85.7-100.0)	97.0 (89.7-100.0)	86.5 (69.2-95.9)	82.2 (41.6-97.4)	98.1 (83.3-100.0)

Data are median (IQR).

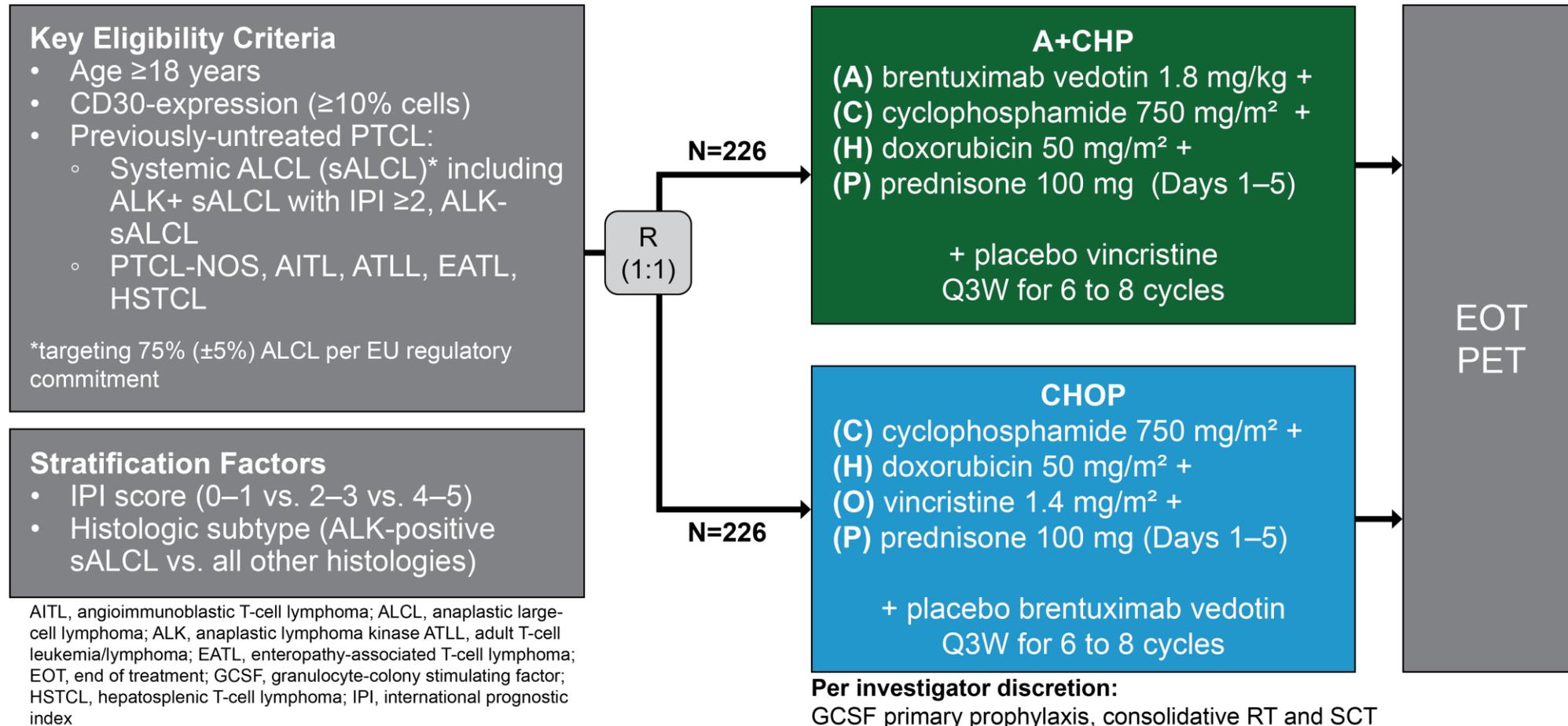
	CHOP (six cycles; n=43)	GEM-P (four cycles; n=44)
Overall response	28 (75.7)	25 (67.6)
Complete response or unconfirmed complete response*	23 (62.2)	17 (45.9)
Partial response	5 (13.5)	8 (21.6)
Stable disease	2 (5.4)	3 (8.1)
Progressive disease	4 (10.8)	6 (16.2)
Progressive disease assessed clinically	3 (8.1)	3 (8.1)
Not done or not assessable	6	7

Data are n (%) of those who had an assessment. CHOP=cyclophosphamide, doxorubicin, vincristine, and prednisolone. GEM-P=gemcitabine, cisplatin, and methylprednisolone. *p=0.164.



ECHELON-2 : Study design

- ECHELON-2 is a phase 3, randomized, double-blind, double-dummy, placebo-controlled, active-comparator, multicenter study.

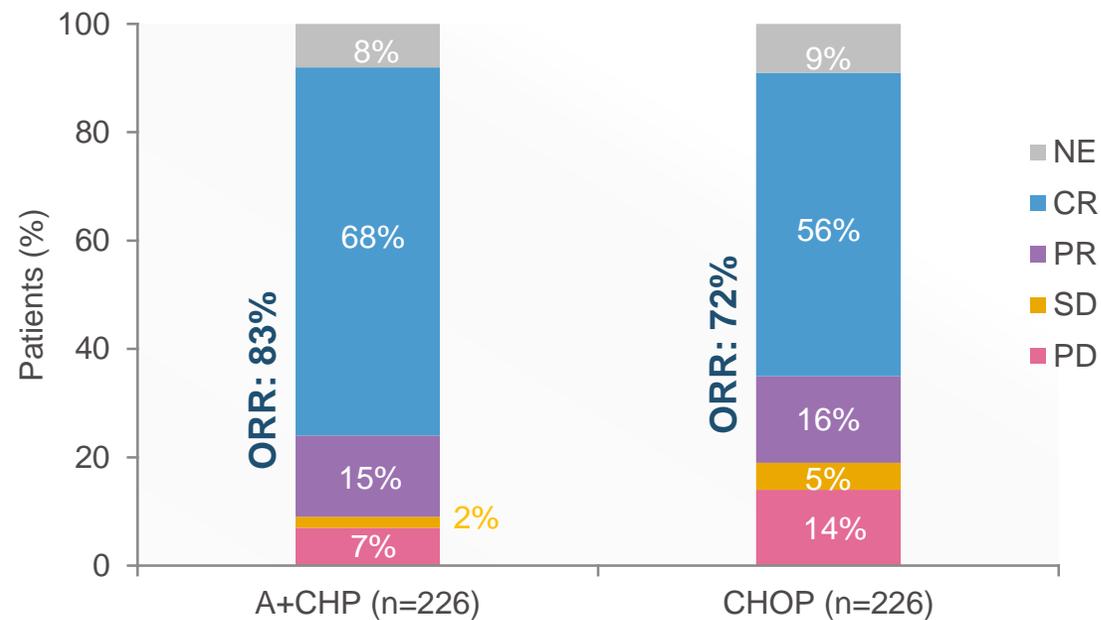


ECHELON-2: Baseline Characteristics

Characteristic	BV + CHP (n = 226)	CHOP (n = 226)
Male, n (%)	133 (59)	151 (67)
Median age, yrs (IQR)	58 (45-67)	58 (44-67)
Disease stage III/IV, n (%)	184 (81)	180 (80)
IPI score, n (%)		
• 0-1	53 (23)	48 (21)
• 2-3	140 (62)	144 (64)
• 4-5	33 (15)	34 (15)
Disease diagnosis, n (%)		
• sALCL	162 (72)	154 (68)
• ALK+ sALCL	49 (22)	49 (22)
• ALK- sALCL	113 (50)	105 (46)
• AITL	30 (13)	24 (11)
• PTCL-NOS	29 (13)	43 (19)
• ATLL	4 (2)	3 (1)
• EATL	1 (0)	2 (1)

Statistically significant and clinically meaningful differences favoring A+CHP were observed in both CR rate and ORR in ITT population

Summary of response at end of treatment according to the Blinded Independent Central Review



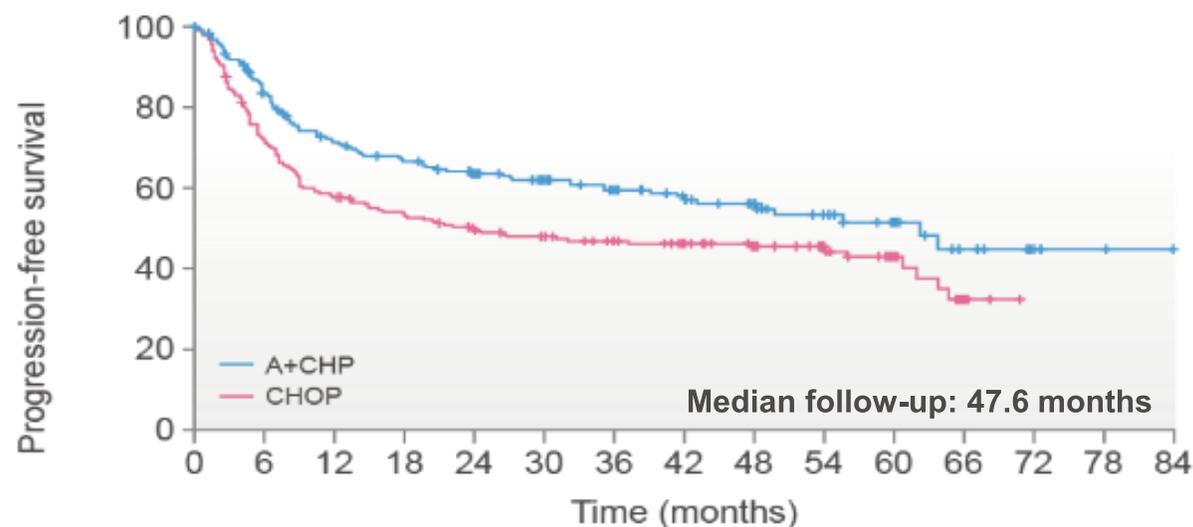
ORR:

- 83% vs 72% (p=0.0032)

CR rate:

- 68% vs 56% (p=0.0066)

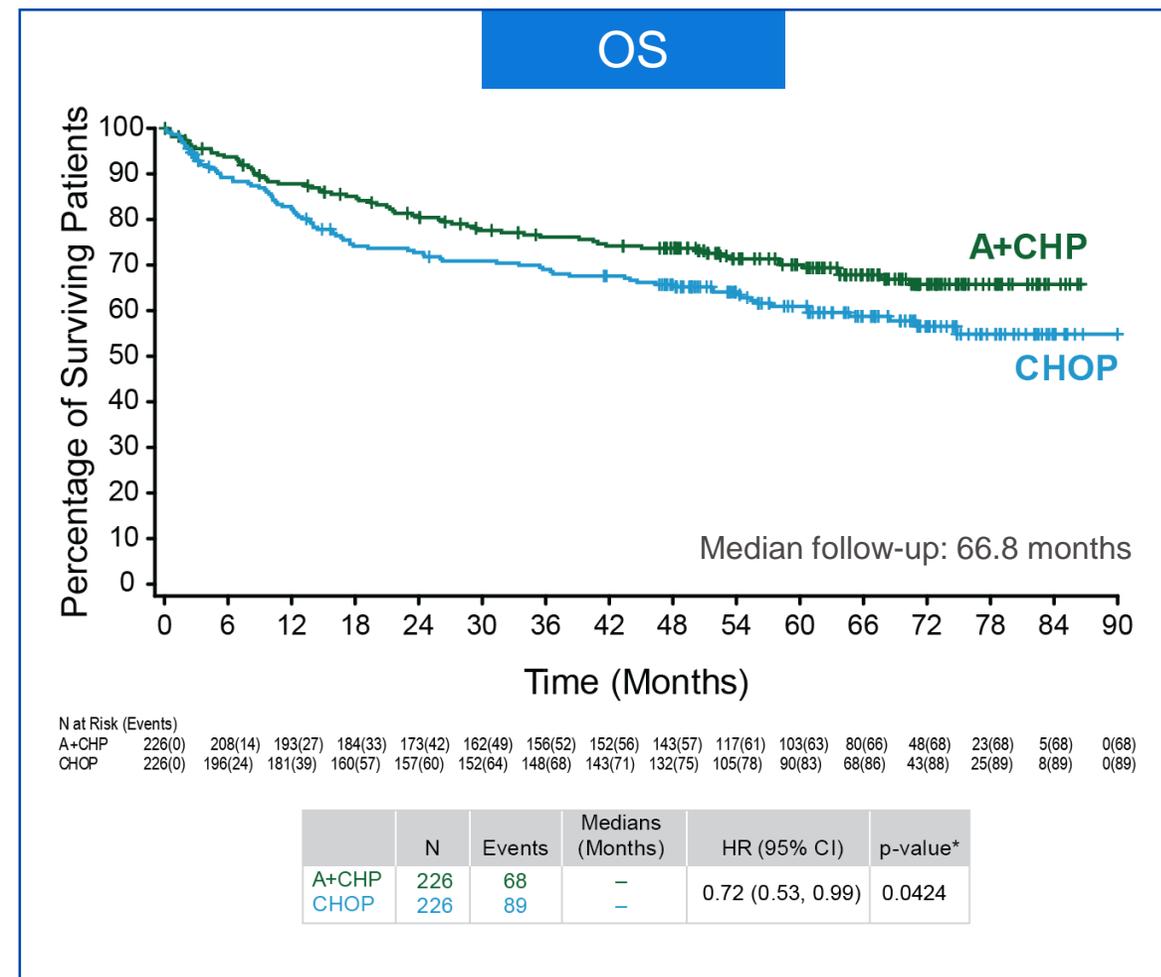
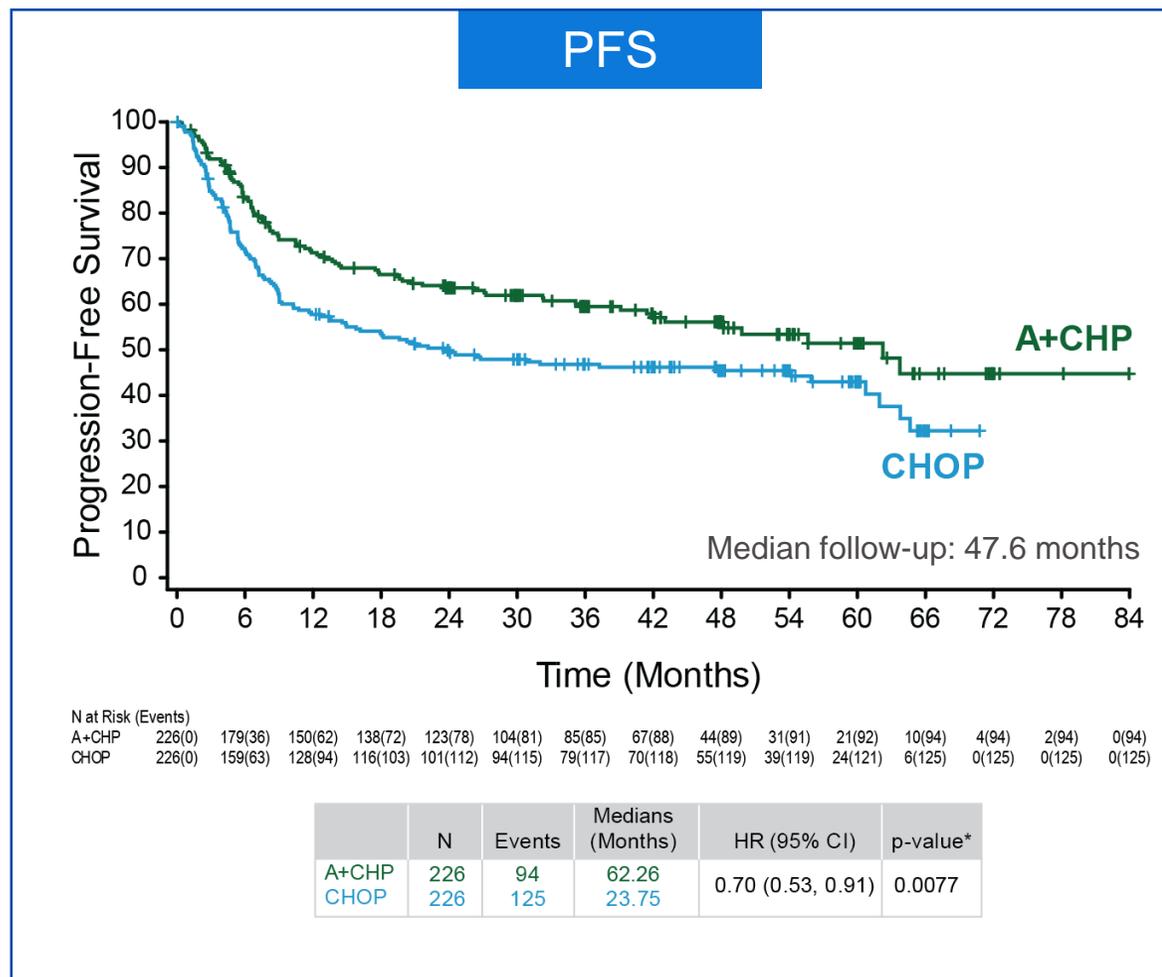
Long-term follow-up in ECHELON-2 shows sustained efficacy with A+CHP (5-year PFS analyses)



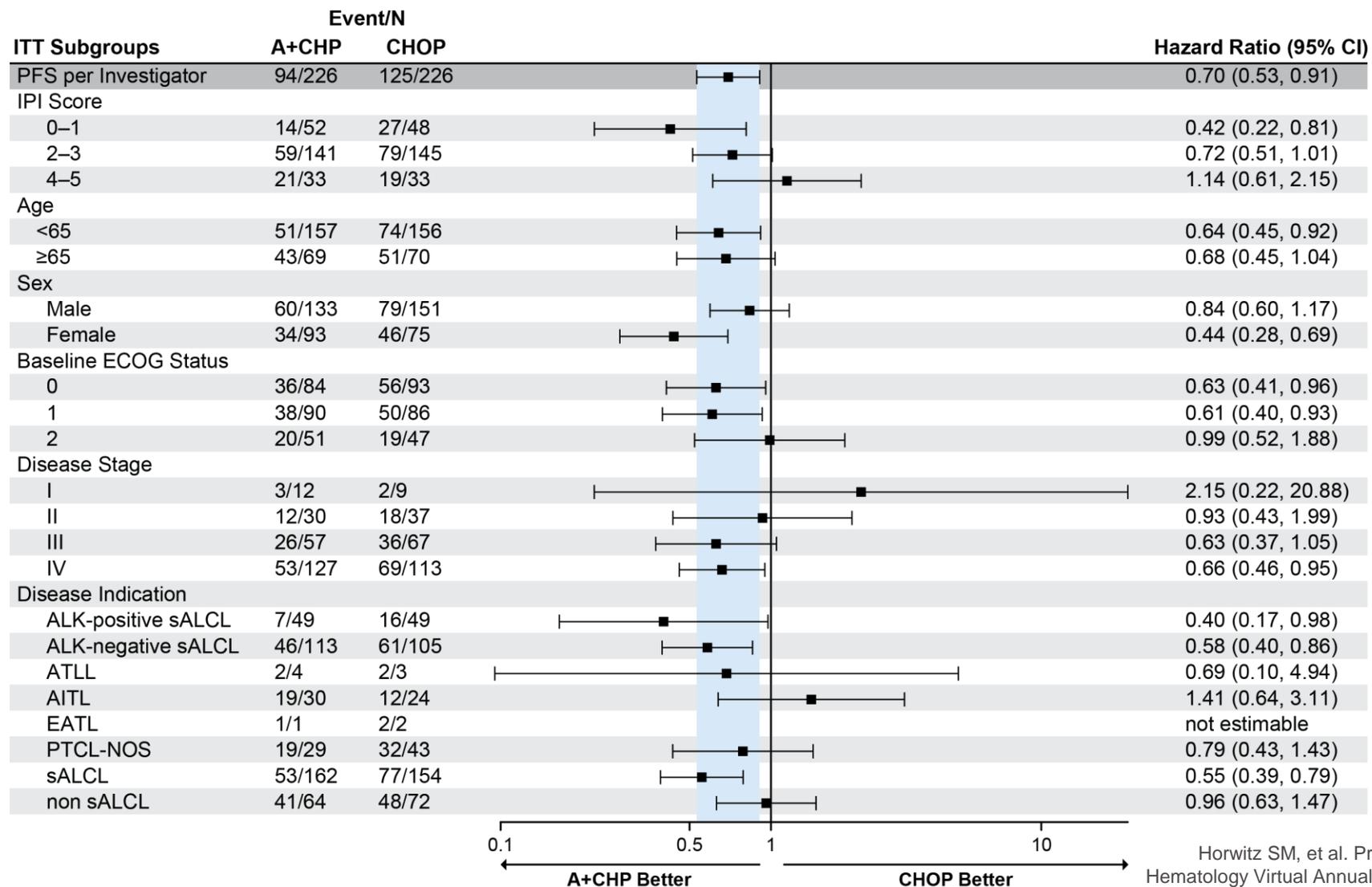
No. at risk(Events)																
A+CHP	226(0)	179(36)	150(62)	138(72)	123(78)	104(81)	85(85)	67(88)	44(89)	31(91)	21(92)	10(94)	4(94)	2(94)	0(94)	
CHOP	226(0)	159(63)	128(94)	118(103)	101(112)	94(115)	79(117)	70(118)	55(119)	39(119)	24(121)	6(125)	0(125)	0(125)	0(125)	

	A+CHP (N=226)	CHOP (N=226)
3-Year results (primary analysis): PFS rate (95% CI) per BICR	57.1% (49.9, 63.7)	44.4% (37.6, 50.9)
Median follow-up: 36.2 months		
HR (95% CI); P-value	0.71 (0.54–0.93); P=0.0110	
5-Year results: PFS rate (95% CI) per INV assessment	51.4% (42.8, 59.4)	43.0% (35.8, 50.0)
Median follow-up: 47.6 months		
HR (95% CI); P-value	0.70 (0.53–0.91); P=0.0077	

PFS (INV Assessment) and OS (5-year follow-up)



Prespecified Subset Analyses: PFS (5-year follow-up)



Horwitz SM, et al. Presented at the 62nd American Society of Hematology Virtual Annual Meeting, December 2020, Poster #1150

Dilemma in CHOP era

ENKTL can not be a candidate for CHOP treatment.

CHOP : is it a standard induction regimen?

CHOP is superior to other combination chemo-therapy

If CHOP is standard, still different biology under same treatment

Upfront auto-HSCT : for every young and fit PTCL patients?

Upfront auto or not?

No Randomized trial yet.

- **Therefore, we should do that.**
- **Therefore, we should not do that .**

Auto vs Non-Auto HSCT in CR with nodal PTCL (Transcript)

- 18-69 y
- Fit enough for ASCT
- PTCL-NOS
- TFH TCLs
- ALK-negative ALCL
- PS 0-2

CHOP
CHOEP
CHP-BV*

*ALK-neg ALCL only

CHOP
CHOEP
CHP-BV* } + ASCT (if CR)

- Enrollment goal n= 204
- Primary endpoint PFS in CR patients
- August 2022 activated (NCT05444712)
- Dr. Bachy PI (France)

Dilemma in CHOP era

ENKTL can not be a candidate for CHOP treatment.

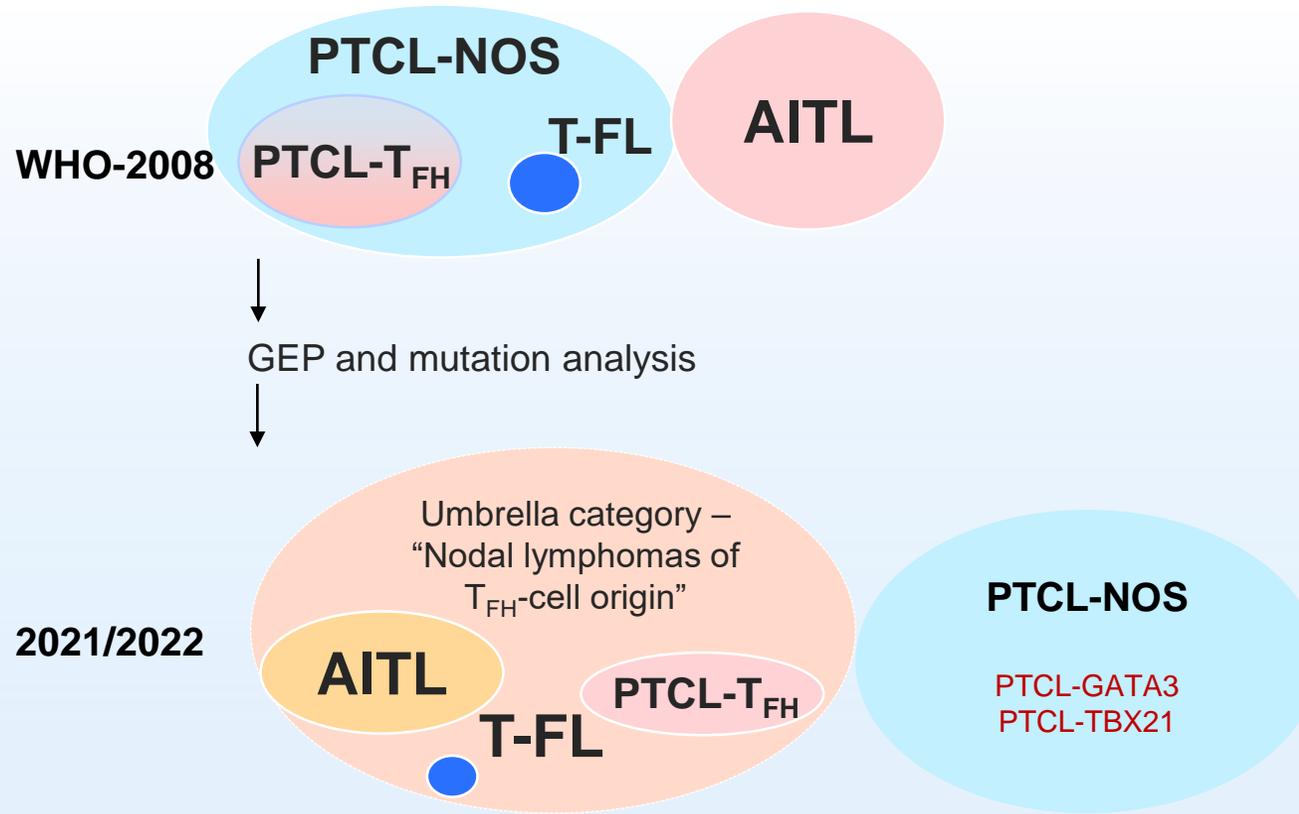
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Upfront auto-HSCT : for every young and fit PTCL patients?

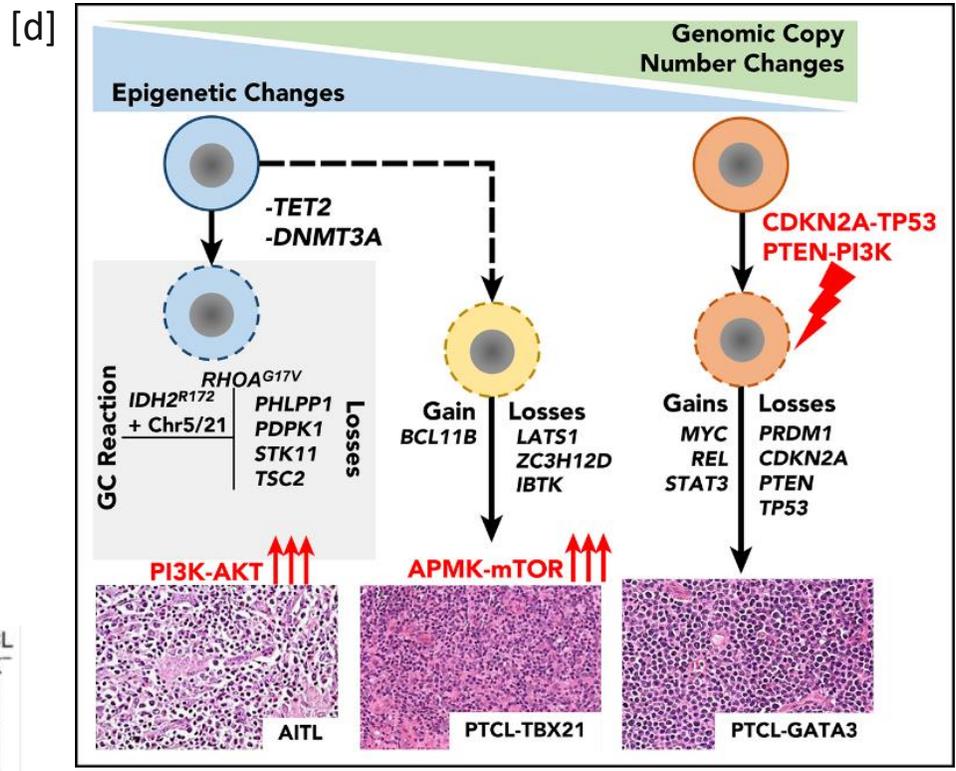
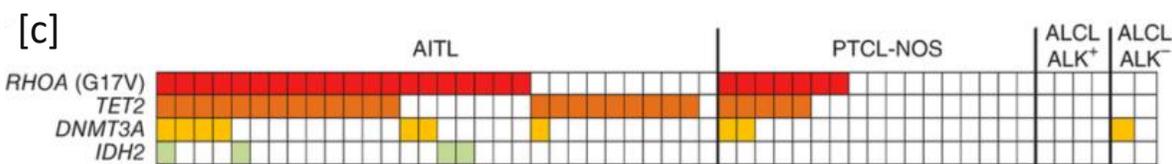
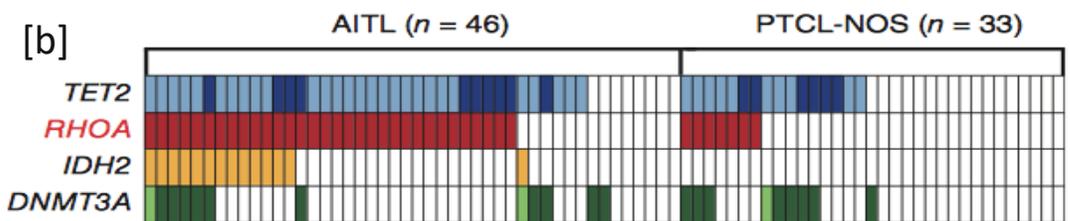
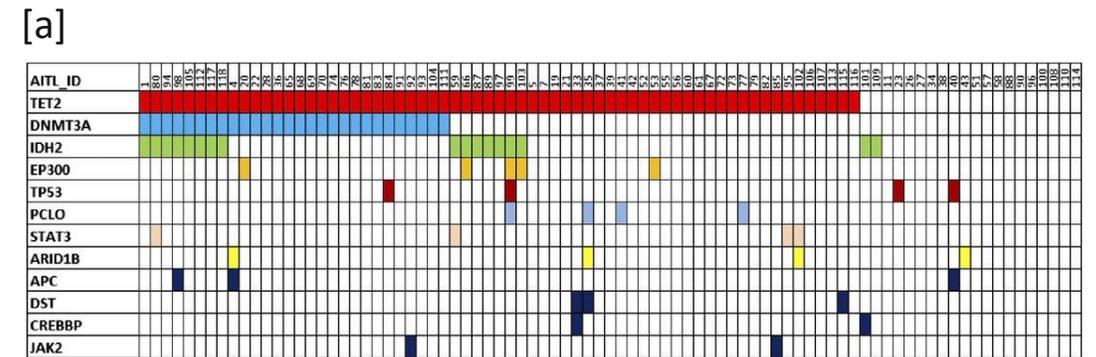
T_{FH} lymphomas: revised version: spectrum of single disease



WHO 4 th 2017	ICC 2022	WHO 5 th 2022
Nodal lymphomas of T follicular helper	Follicular helper T-cell lymphoma	Nodal T follicular helper cell lymphoma
Angioimmunoblastic T-cell lymphoma	Follicular helper T-cell lymphoma, angioimmunoblastic type	Nodal TFH lymphoma, angioimmunoblastic-type
Follicular T-Cell lymphoma	Follicular helper T-cell lymphoma, follicular type	Nodal TFH lymphoma, follicular-type
Nodal peripheral T-Cell lymphoma with T FH phenotype	Follicular helper T-cell lymphoma, NOS	Nodal TFH lymphoma, NOS

Genetic Drivers in Subtypes and Subgroups of PTCL

AITL and TFH subtypes of PTCL enriched for mutations in epigenetic modifiers: *TET2*, *DNMT3A*, *RHOA*, *IDH2*



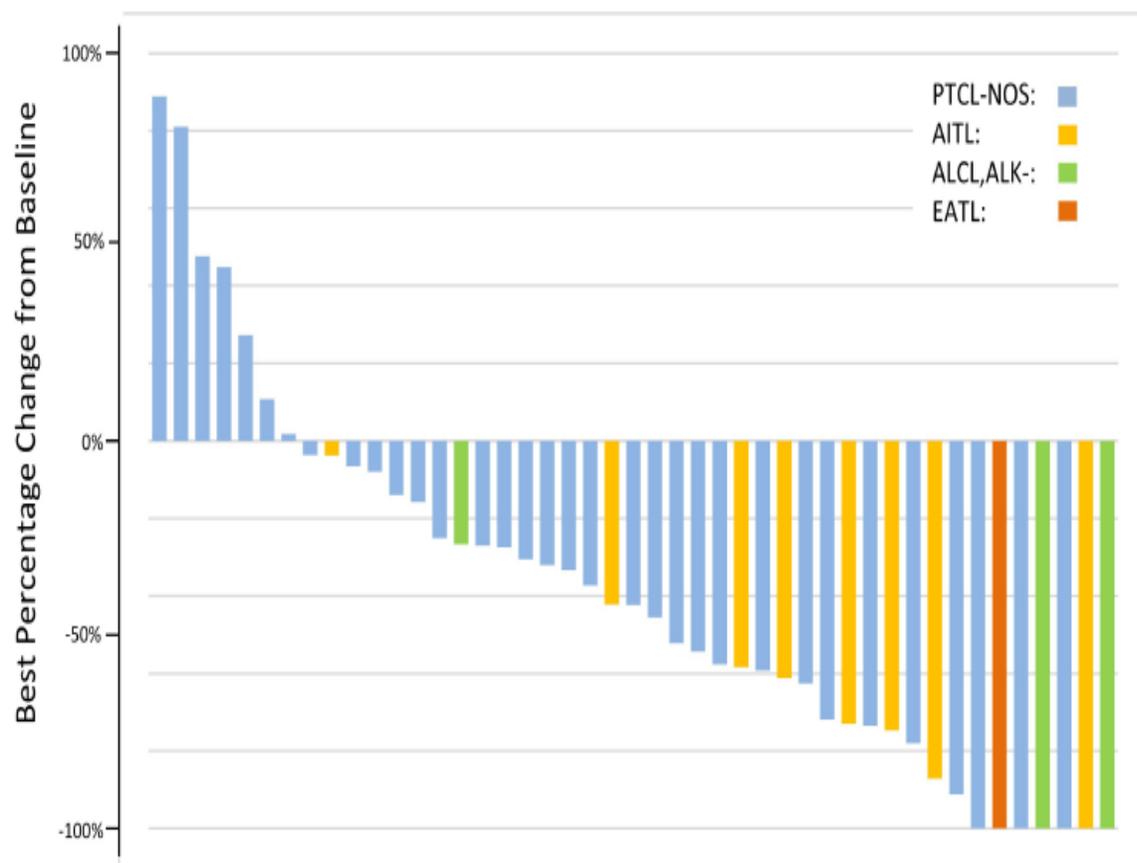
- a. Odejide O, et al. *Blood*. 2014;123:1293-1296; b. Sakata-Yanagimoto M, et al. *Nat Genet*. 2014;46:171-175.
- c. Palomero et al. *Nat Genet*. 2014;46:166-170; d. Heavican TB, et al. *Blood*. 2019;133:1664-1676.

Tucidinostat in R/R PTCLs : PIIb

Characteristics	Total N=55
Sex, N (%)	
Male	35 (64)
Female	20 (36)
Age (years), median (min, max)	71 (38, 87)
Ethnicity, N (%)	
Japanese	39 (71)
South Korean	16 (29)
ECOG Performance Status, N (%)	
0	28 (51)
1	25 (46)
2	2 (4)
Diagnosis (confirmed by CPR), N (%)	
PTCL	52 (95)
PTCL-NOS	37 (67)
AITL	10 (18)
ALCL, ALK-negative	3 (5)
EATL	2 (4)
Non-PTCL	2 (4)
DLBCL	1 (2)
NLPHL	1 (2)
Unknown	1 (2)
Duration since initial diagnosis in years, median, range	1.339 (0.06-12.88)
PTCL subset, N (%)	
Relapsed (CR, CRu, PR)	32 (58)
Refractory (SD, PD)	23 (42)

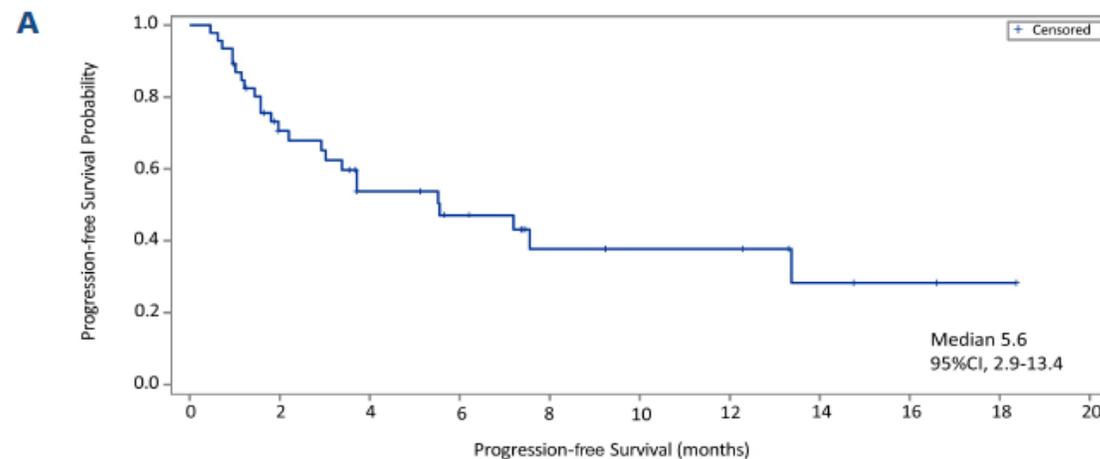
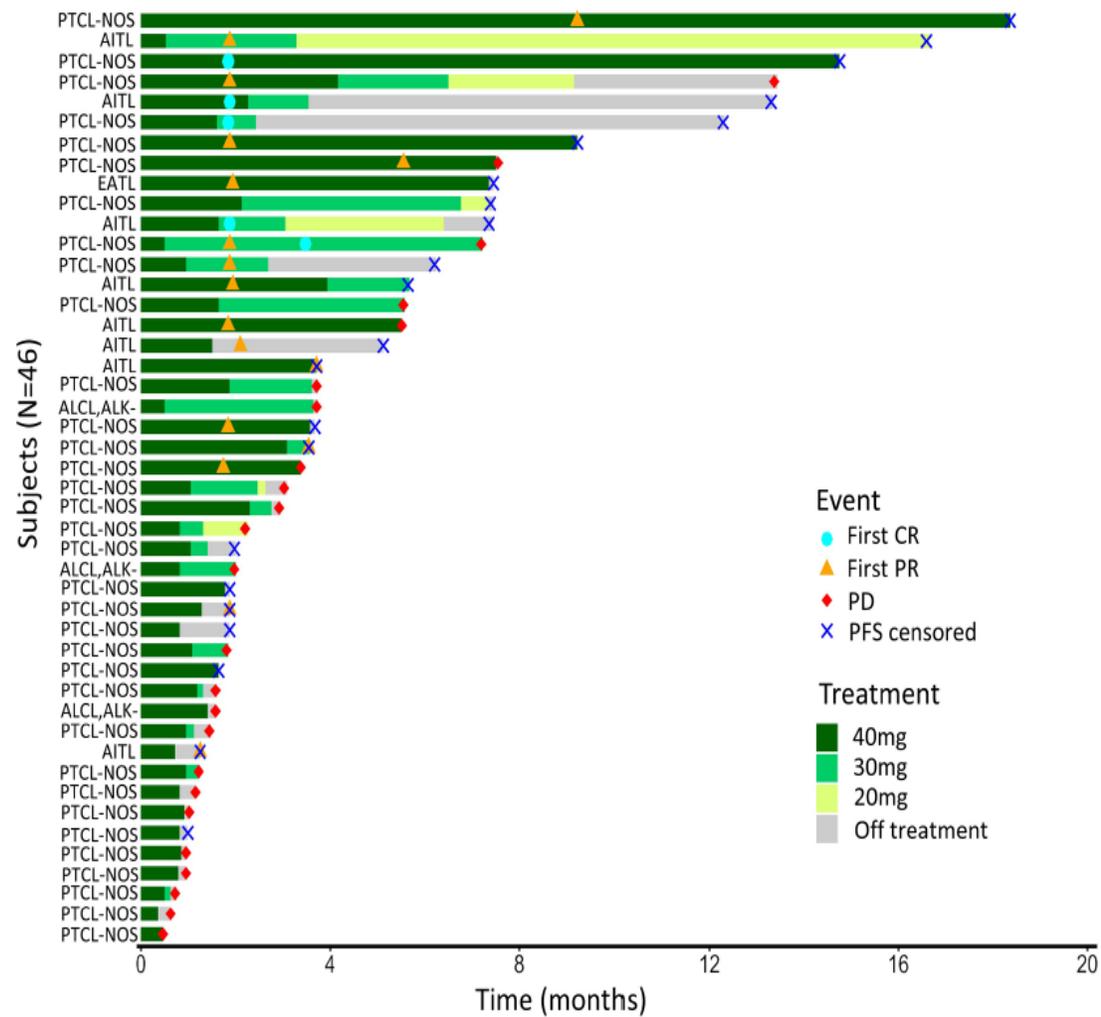
Characteristics	Total N=55
Type of previous cancer therapy, N (%)	
Chemotherapy	55 (100)
Other anticancer therapy	16 (29)
Brentuximab vedotin	2 (4)
Darinaparsin	8 (15)
Denileukin Diftitox	2 (4)
Forodesine	6 (11)
Mogamulizumab	1 (2)
Pralatrexate	3 (5)
Rituximab	2 (4)
Romidepsin	4 (7)
Radiotherapy	6 (11)
Autologous stem cell transplantation	6 (11)
Other	2 (4)
N of prior systemic therapies including targeted therapies, median (min, max)	2 (1, 9)
N of regimens received (%)	
1 regimen	20 (36)
2 regimens	17 (31)
3 regimens	8 (15)
4 regimens	5 (9)
5 or more regimens	5 (9)
N of days from end of last immediate previous therapy, median (min, max)	97 (29, 3,861)

Tucidinostat in R/R PTCLs : PIIb

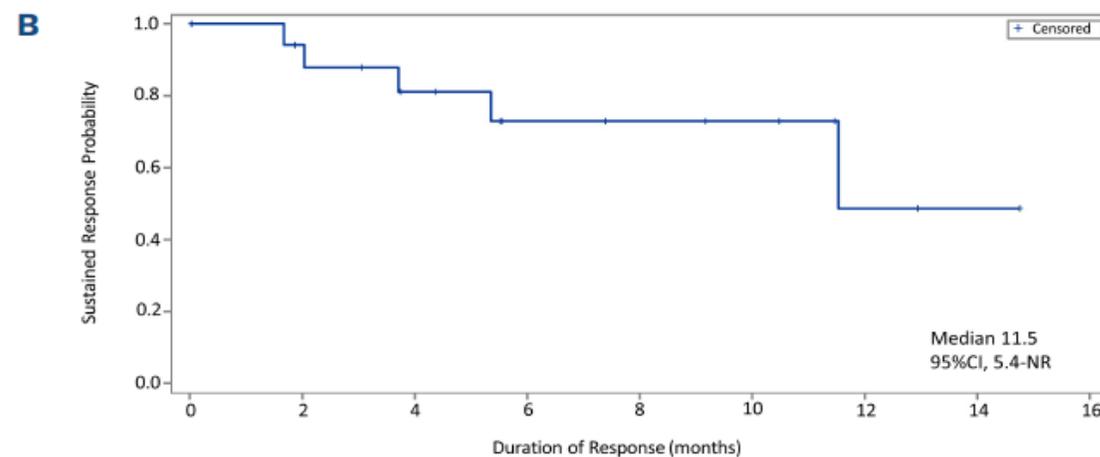


		Total N=46	
	Response	N (%)	95% CI
Objective response	CR or PR	21 (46)	30.9-61.0
Best response	CR	5 (11)	
	PR	16 (35)	
	SD	12 (26)	
	PD	13 (28)	
ORR by PTCL subtype	PTCL-NOS	12/34 (35)	19.7-53.5
	AITL	7/8 (88)	47.3-99.7
	ALCL, ALK-negative	1/3 (33)	0.8-90.6
	EATL	1/1 (100)	2.5-100

Tucidinostat in R/R PTCLs : PIIb



At Risk 46 26 17 13 7 6 6 3 2 1 0



At Risk 21 15 11 7 6 5 2 1 0



ORACLE

Abstract #959: Oral Azacitidine in Patients with Relapsed/Refractory Angioimmunoblastic T-Cell Lymphoma: Final Analysis of the Oracle Phase III Study

Jehan Dupuis, Kunihiro Tsukasaki, Emmanuel Bachy, Franck Morschhauser, Guillaume Cartron, Noriko Fukuhara, Nicolas Daguindau, René-Olivier Casasnovas, Sylvia Snauwaert, Rémy Gressin, Christopher P. Fox, Francesco Annibale d'Amore, Philipp B. Staber, Argyrios Gkasiamis, Mitsufumi Nishio, Luc-Matthieu Fornecker, Marie-Helene Delfau, Nouhoum Sako, Sebastien Mule, Laurence De Leval, Philippe Gaulard, and François Lemonnier

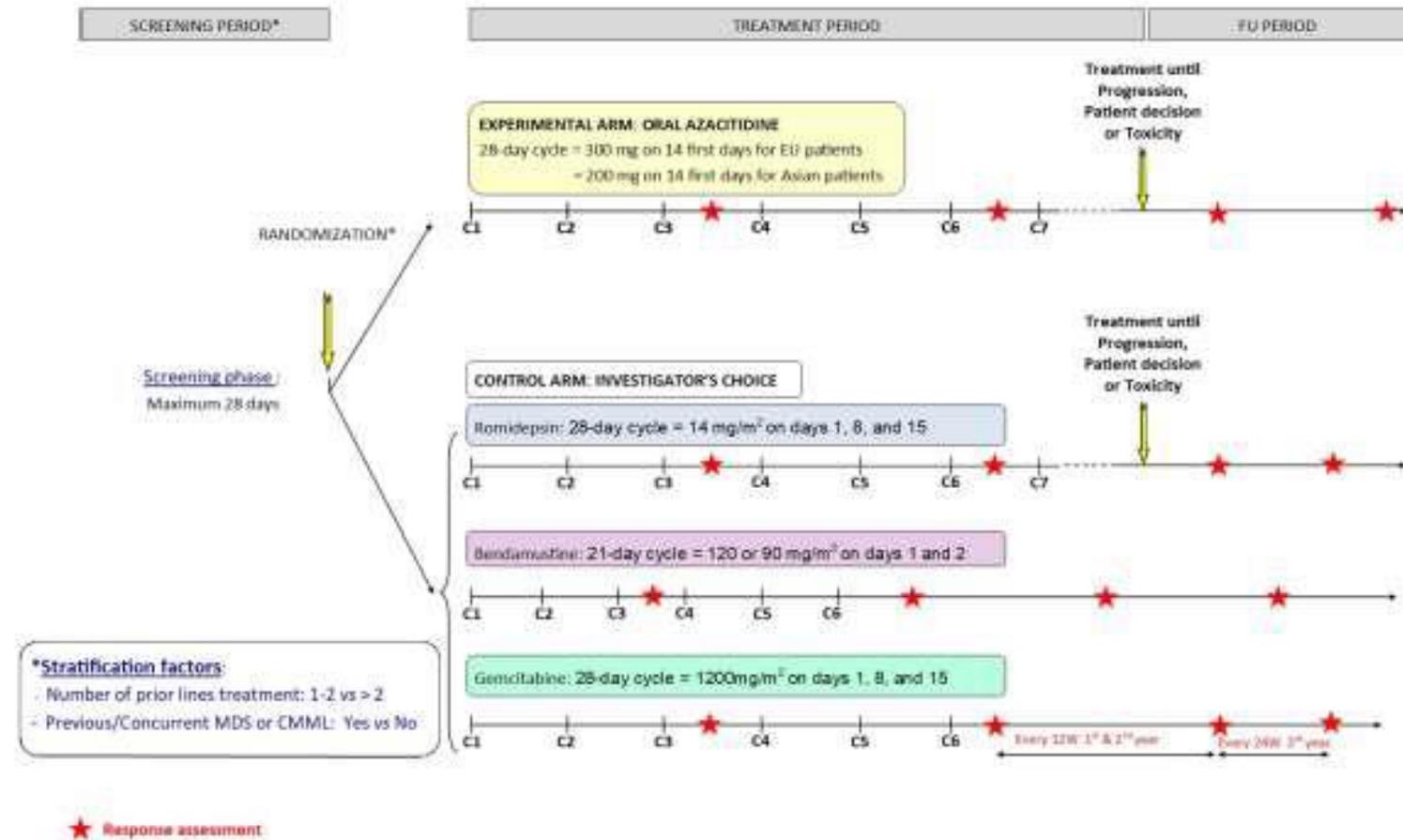
OEACLE

➤ Key inclusion criteria

- Aged ≥ 18 y
- TFH PTCL (WHO 2016):
 - AITL
 - Follicular PTCL
 - Nodal PTCL with TFH phenotype
- ECOG 0-3
- **Relapsed/refractory lymphoma after ≥ 1 previous line**
- Adequate hematopoietic function

➤ Key exclusion criteria

- CNS or meningeal involvement
- Candidate for stem cell transplantation
- Steroid use except if stable or decreasing dose for ≥ 1 week before ICF signature
- Impaired renal or hepatic functions
- Previous exposure to hypomethylating agent or investigator's choice therapy



Endpoints and statistics



Primary endpoint: PFS based on local assessment using CT based IWG 2014

Key secondary endpoint: OS

Secondary endpoints:

- PFS by the IRC
- Overall response rate (ORR)
- Complete response rate (CRR)
- Duration of response
- Time to response
- PFS2 using local assessment
- HRQOL endpoints EORTC QLQ-C30
- safety

Assumptions

➤ PFS

- PFS improvement from 5 (ICT) to 12 (CC-486) months
- HR=0.417, power 90%, one sided α risk= 2.5%
- **Superiority claimed if p-value from a stratified log rank test is < 0.025**
- Analysis after 61 events

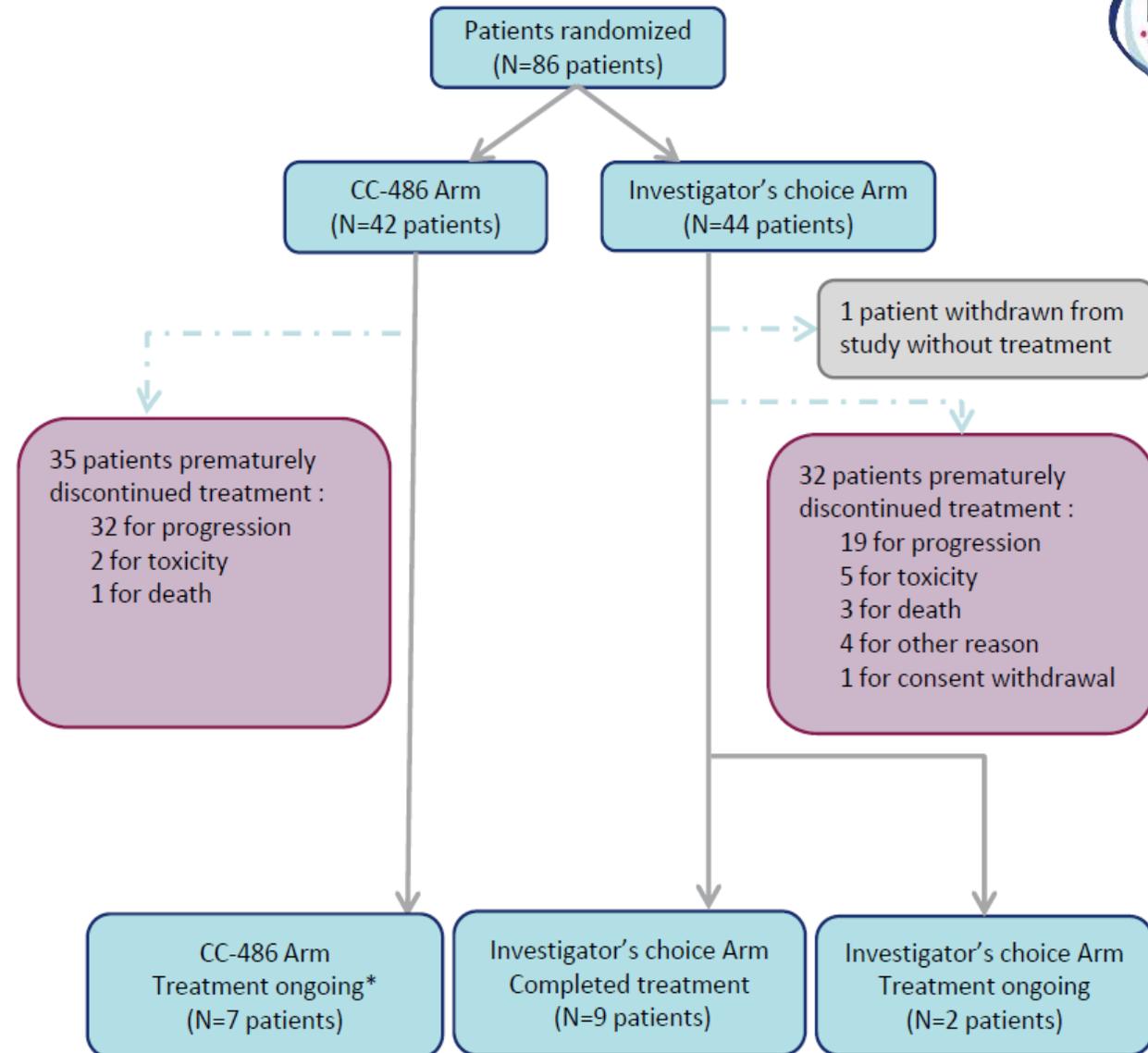
➤ OS

- OS improvement from 7 (ICT) to 16.8 (CC-486) months
- power 90%, one sided α risk= 2.5%
- **Superiority claimed if p-value from a stratified log rank test is < 0.02**

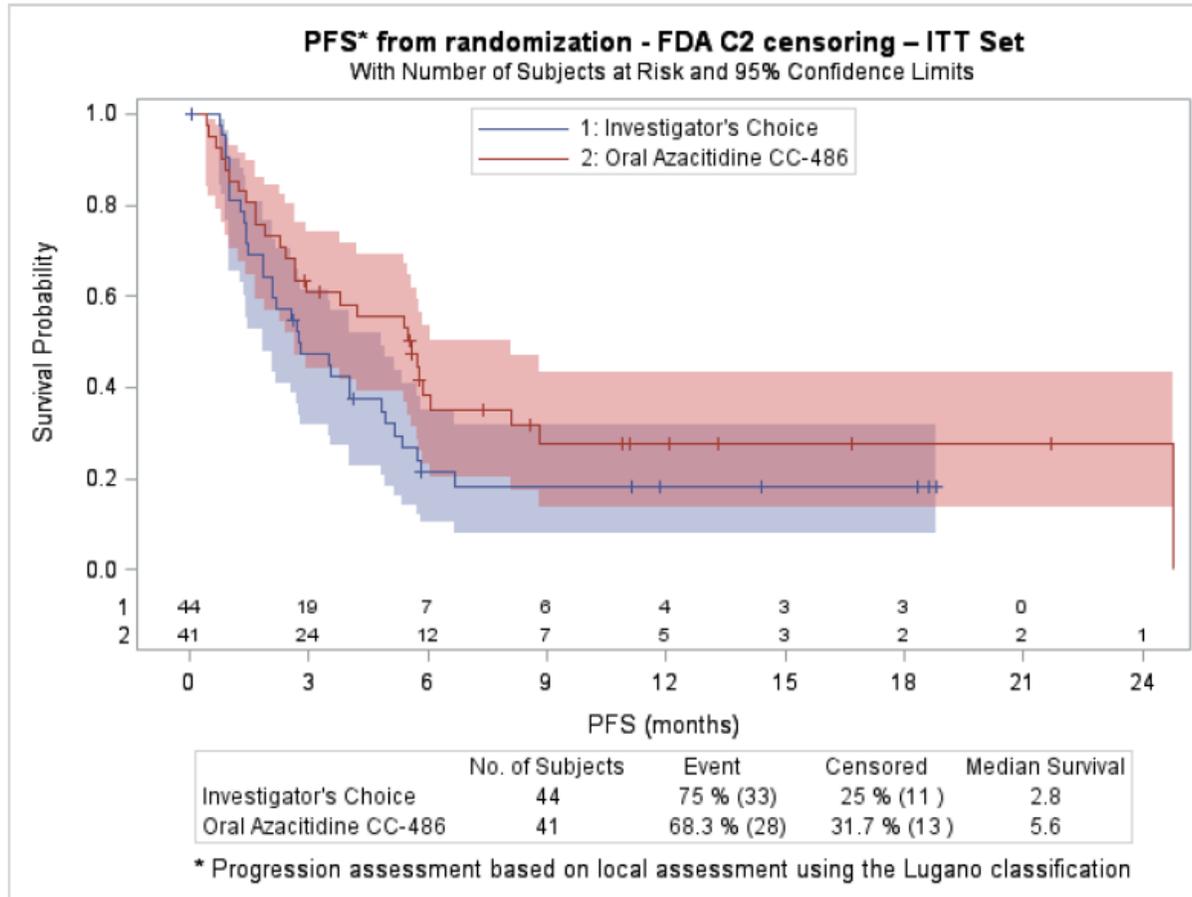
Patient disposition



- 86 patients were included in the study from 09 Nov 2018 to 22 Feb 2021
- 87 opened sites
 - ✓ France: 57
 - ✓ Japan: 15
 - ✓ Belgium: 6
 - ✓ UK: 5
 - ✓ Denmark: 2
 - ✓ Austria: 1
 - ✓ South Korea: 1
- Median follow-up is 27.4 months (0.5-39.5)
- Central pathological review confirmed the diagnosis of AITL and TFH PTCL in 69 and 9 cases.



Primary endpoint: PFS based on local assessment

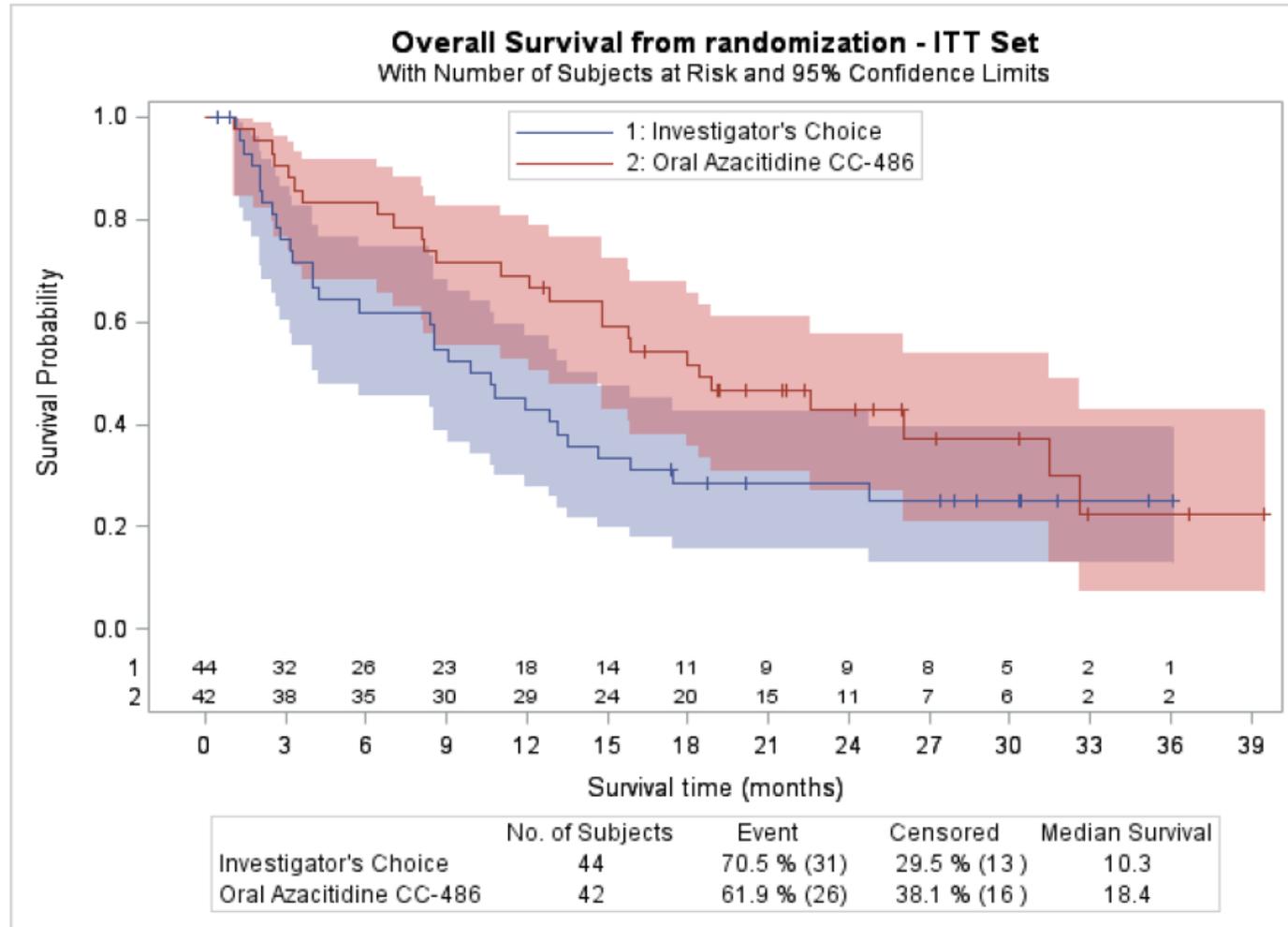


	Investigator's choice	CC-486
median	2.8 months	5.6 months
95% CI	1.9 - 4.8 months	2.7 - 8.1 months

P=0.0421

prespecified p=0.025

Key secondary endpoint: Overall survival



	Investigator's choice	CC-486
median	10.3 months	18.4 months
95% CI	4.2 – 13.5 months	12.9 – 31.5 months

P=0.0166*

* Descriptive p value

ORACLE: Response rate



	CC-486 N=42	Investigator's choice N=44	
3 months (or PTD cycle 1-3)			
Overall response rate	14 (33%) [19.6%-49.5%]	19 (43.2%) [28.3%-59%]	p =0.33
Complete response rate	5 (11.9%) [4%-25.6%]	10 (22.7%) [11.5%-37.8%]	p =0.18
6 months (or PTD cycle 4-6)			
Overall response rate	13 (31%) [17.6-47.1%]	10 (22.7%) [11.5%-37.8%]	p =0.40
Complete response rate	5 (11.9%) [4%-25.6%]	7 (15.9%) [6.6%-30.1%]	p =0.56

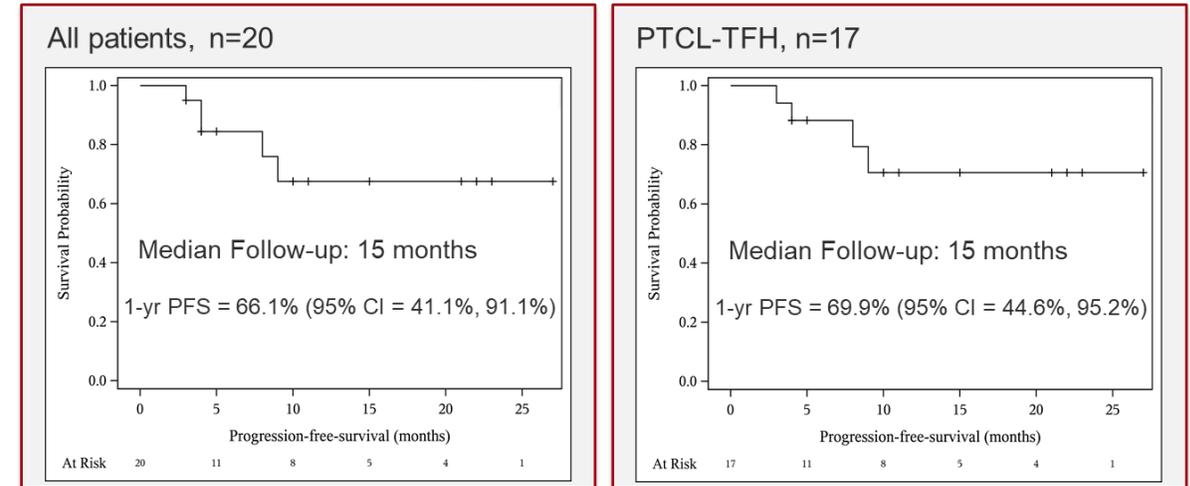
Oral Azacitidine (CC486) Plus CHOP

Efficacy and Safety

Objective Responses

Response	Interim*			EOT*		
	No. Pt	Evaluable (n=20)	PTCL-TFH (n=17)	No. Pt	Evaluable (n=20)	PTCL-TFH (n=17)
ORR	17	85%	94%	15	75%	88%
CR	11	55%	59%	15	75%	88%
PR	6	30%	35%	0	0	0
SD	2	10%	0	1	5%	0
PD	1	5%	6%	2	10%	6%
Discontinuation	0	0	0	2	10%	6%
Median follow-up	15 months (range 9-23)					
* *: Interim – following 3 cycles of treatment; EOT following 6 cycles of treatment.						
* #: Discontinuation due to 1) disease progression; 2) strongyloides infection.						

Progression-Free Survival



- Grade 3-4 toxicities in > 10% :
 - Neutropenia 71% (N = 15)
 - Febrile Neutropenia 14% (N = 3)
 - Anemia 14% (N = 3)
 - Thrombocytopenia 10% (N = 2)
 - Fatigue 14% (N = 3)
 - Hyponatremia 14% (N = 3)

Dilemma in CHOP era

ENKTL can not be a candidate for CHOP treatment.

CHOP : is it a standard induction regimen?

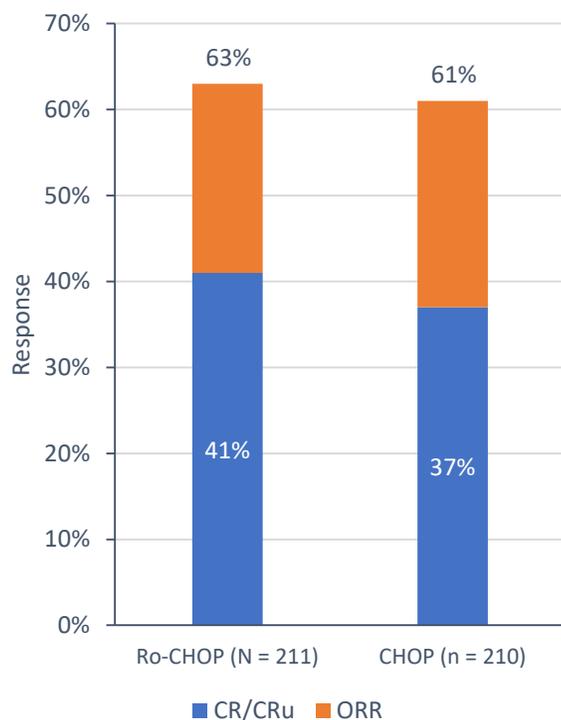
CHOP is superior to other combination chemo-therapy

If CHOP is standard, still different biology under same treatment

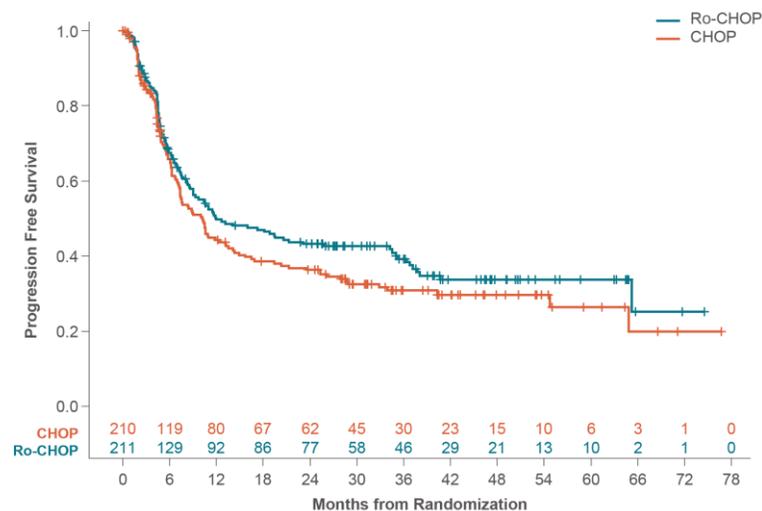
Upfront auto-HSCT : for every young and fit PTCL patients?

Ro-CHOP Efficacy

Ro-CHOP: Response at End of Treatment

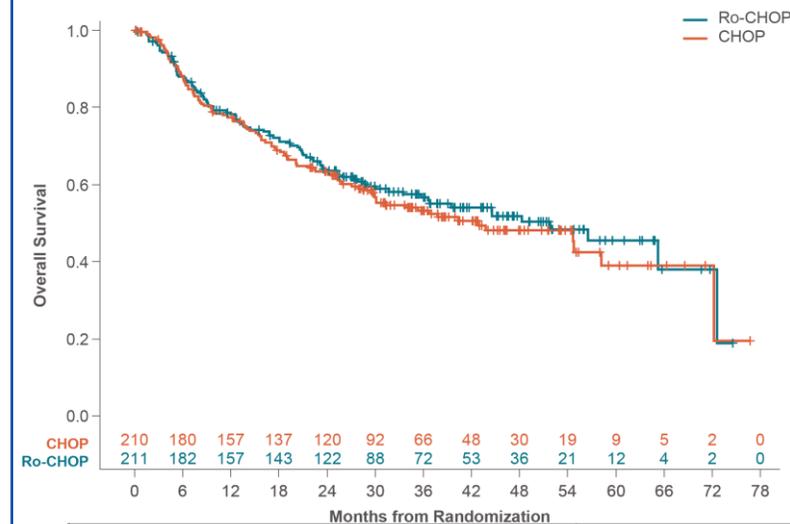


Ro-CHOP: PFS by independent RAC (ITT Population)*



	Ro-CHOP (n = 211)	CHOP (n = 210)
PFS, median (95% CI), mo	12.0 (9.0-25.8)	10.2 (7.4-13.2)
HR (95% CI)	0.81 (0.63-1.04)	
P value	0.096	

Ro-CHOP: OS (ITT Population)



	Ro-CHOP (n = 211)	CHOP (n = 210)
OS, median (95% CI), mo	51.8 (35.7-72.6)	42.9 (29.9-NR)
HR (95% CI)	0.90 (0.68-1.20)	
P value	0.477	

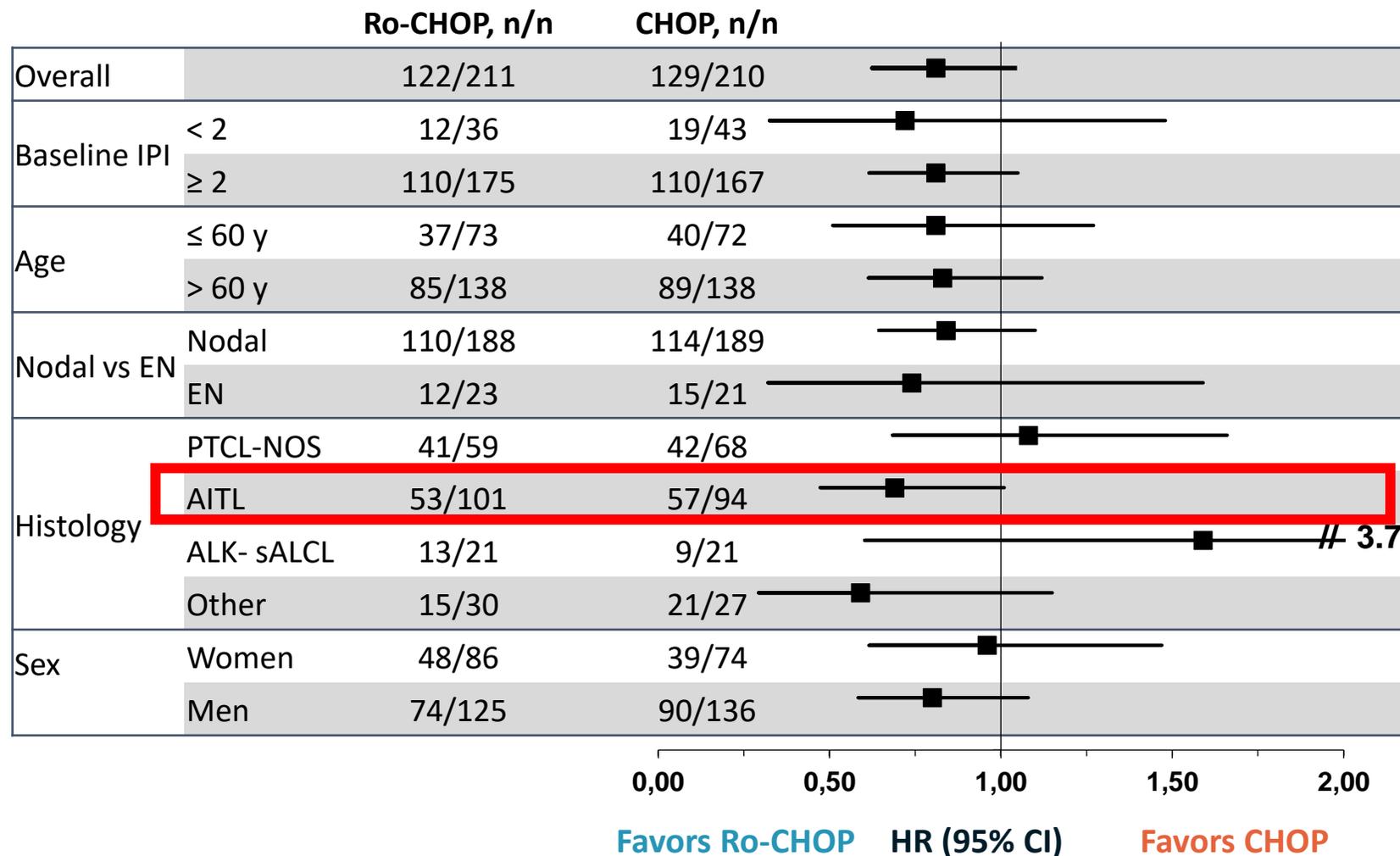
- Bachy E, et al. ASH 2020. Abstract 39.

Ro-CHOP

Subgroup Analysis of PFS (ITT Population)- outcomes in AITL

Dose Reductions and Interruptions

≥ 1 TEAE Dose Modification, n (%)	Ro-CHOP (n = 210)	CHOP (n = 208)
Romi red	77 (37)	NA
Romi interrupt	132 (63)	NA
Romi DC	17 (8)	NA
CHOP red	54 (26)	31 (15)
CHOP interrupt	75 (36)	42 (20)
Completed All 6 Cycles w/o Red or Inter, n (%)	Ro-CHOP (n = 210)	CHOP (n = 208)
Romi	62 (30)	NA
CHOP	112 (53)	125 (60)



• Bachy E, et al. ASH 2020. Abstract 39.

CHOP+X = CHOP

Drug (n)	Dose as Single Agent	Daily DI as Single Agent (mg/kg/day)	Dose in Combination	Daily DI with CHOP (mg/kg/day)	% Dose Intensity	Reference
<u>Romidepsin</u>	14 mg/kg D 1, 8 and 15 Q28 day	1.5 mg/kg/day	12 mg/kg D 1 and 8	1.1 mg/kg/day	28% Reduction in DI	<u>Bachy et al., 2021</u>
<u>Brentuximab vedotin</u>	1.8 mg/kg Q21 days	0.9 mg/kg/day	1.8 mg/kg D 1	0.9 mg/kg/day	100% of planned DI	Horwitz et al. 2019 & 2022
<u>Vorinostat</u>	400 mg PO QD	400 mg/day	300 mg PO tid days x 5 days	214 mg/day	47% Reduction in DI	Oki et al. 2013
<u>Everolimus</u>	10 mg PO QD	10 mg/day	5 mg D 1-14 Q 21 D	3.3 mg/day	66% Reduction in DI	Kim et al. 2013
<u>Denilukein difitox</u>	18 mcg/kg/day x 5 day Q21 D	2.1 mcg/kg/day (or 4.2 mcg/kg/day)	18 mcg/kg D 1 and 2 Q 21D	1.7 mcg/kg/day	80% of planned DI	Foss et al. 2013
<u>Bortezomib</u>	1.3 mg/m ² Days 1, 4, 8 and 11 Q 21 D	0.25mg/kg/day	1.6 mg/m ² Days 1 & 8	0.15 mg/kg/day	40% Reduction in DI	Lee et al., 2008
<u>Chidamide</u>	50 mg TIW x 3 wks Q21 D	9.5 mg/day	30 mg Days 1, 4 and 8 Q 21 days	4.3 mg/day	55% Reduction in DI	Lu et al. 2016

• Courtesy of Owen O'Connor

CHOP : is it a standard?

Dose Level	CHOP	Dose Changes	'Plus' Drug	Dose Changes
Dose Level 1	CTX 750 Dox 50 VCN 2 Pred 100 QD x 5	Fixed Dosing	1x	Escalated
Dose Level 2	CTX 750 Dox 50 VCN 2 Pred 100 QD x 5		2x	
Dose Level 3	CTX 750 Dox 50 VCN 2 Pred 100 QD x 5		3x	
Dose Level 4	CTX 750 Dox 50 VCN 2 Pred 100 QD x 5		4x	
Dose Level 5	CTX 750 Dox 50 VCN 2 Pred 100 QD x 5		Single Agent MTD/OBD	

Dose Level	CHOP	Dose Changes	'Plus' Drug	Dose Changes
Dose Level 1	CTX X Dox X VCN X Pred 100 QD x 5	Escalated	OBD / MTD Dose = X	Fixed Dosing
Dose Level 2	CTX 2X Dox 2X VCN 2X Pred 100 QD x 5		OBD / MTD Dose = X	
Dose Level 3	CTX 3X Dox 3X VCN 3X Pred 100 QD x 5		OBD / MTD Dose = X	
Dose Level 4	CTX 4X Dox 4X VCN 4X Pred 100 QD x 5		OBD / MTD Dose = X	
Dose Level 5	CTX 5X Dox 5X VCN 5X Pred 100 QD x 5		OBD / MTD Dose = X	

Distal Dose = MTD, Median Tolerated Dose

- Courtesy of Owen O'Connor

Recent advances in T/NK cell lymphoma

More biologic /genomic data based classification

CHOP is standard ?

- ALCL : BV congaing should be recommended
 - CD30+PTCL other than ALCL : recommended in US / not in EU
- COO : FHT subtypes –epigenetics based
- Cytotoxic T-cell lymphoma : ?
- Gamma/delta T-cell lymphoma : ?
- ENKTL : immuno-oncology based

THANK-YOU

