



Actualités 2019

*Marie Thérèse Rubio
CS de la SFGM-TC*

Nantes, 6 Novembre 2019

Les grands axes

- **Conditionnement RIC:** Fluda-Treosulfan fait mieux que Fluda-Busulfan
- **GVH:**
 - En prophylaxie: PT-Cy or ATG ?
 - En curatif Ruxolitinib: FDA approved !
- **Infections: ECIL7 :** Letermovir en prophylaxie du CMV
- **Mécanismes d'échappement immunitaire post-allogreffe**
- **CAR-T cells:**
 - Résultats dans le myélome
 - Mécanismes d'échappement et dual/multi-CAR
 - CAR-T et inhibiteurs de check point
 - Dasatinib en prévention du CRS
 - CAR-T bridge vers l'allogreffe : chez qui ?
- **Gilteritinib dans la LAM R/R :** avant et après la greffe

Treosulfan or busulfan plus fludarabine as conditioning treatment before allogeneic haemopoietic stem cell transplantation for older patients with acute myeloid leukaemia or myelodysplastic syndrome (MC-FludT.14/L): a randomised, non-inferiority, phase 3 trial

Dietrich Wilhelm Beeler, Rudolf Trenschel, Matthias Stelljes, Christoph Groth, Tamás Masszi, Péter Reményi, Eva-Maria Wagner-Drouet, Beate Hauprock, Peter Dreger, Thomas Luft, Wolfgang Bethge, Wichard Vogel, Fabio Ciceri, Jacopo Peccatori, Friedrich Stölzel, Johannes Schetelig, Christian Jungblans, Christina Grosse-Thie, Mauricette Michallet, Hélène Labussiere-Wallet, Kerstin Schaefer-Eckart, Sabine Dressler, Goetz Ulrich Grigoleit, Stephan Mielke, Christof Scheid, Udo Holtick, Francesca Patriarca, Marta Medeot, Alessandro Rambaldi, Maria Caterina Micò, Dietger Niederwieser, Georg-Nikolaus Franke, Inken Hilgendorf, Nils Rudolf Winkelmann, Domenico Russo, Gérard Socié, Rémi Peffault de Latour, Ernst Holler, Daniel Wolff, Bertram Glass, Jochen Casper, Gerald Wulf, Helge Menzel, Nadezda Basara, Maria Bieniaszewska, Gernot Stuhler, Mareike Verbeek, Sandra Grass, Anna Paola Iori, Juergen Finke, Fabio Benedetti, Uwe Pichler, Claudia Hemmelmann, Michael Tribanek, Anja Klein, Heidrun Anke Mylius, Joachim Baumgart, Monika Dzierzak-Mietla, Miroslaw Markiewicz

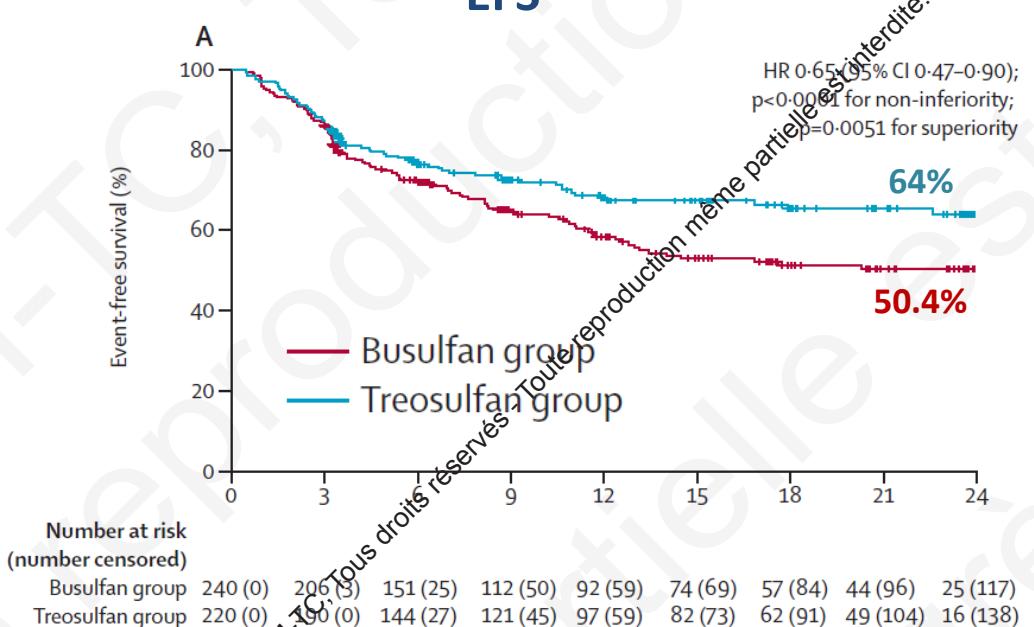
Lancet Haematol 2019

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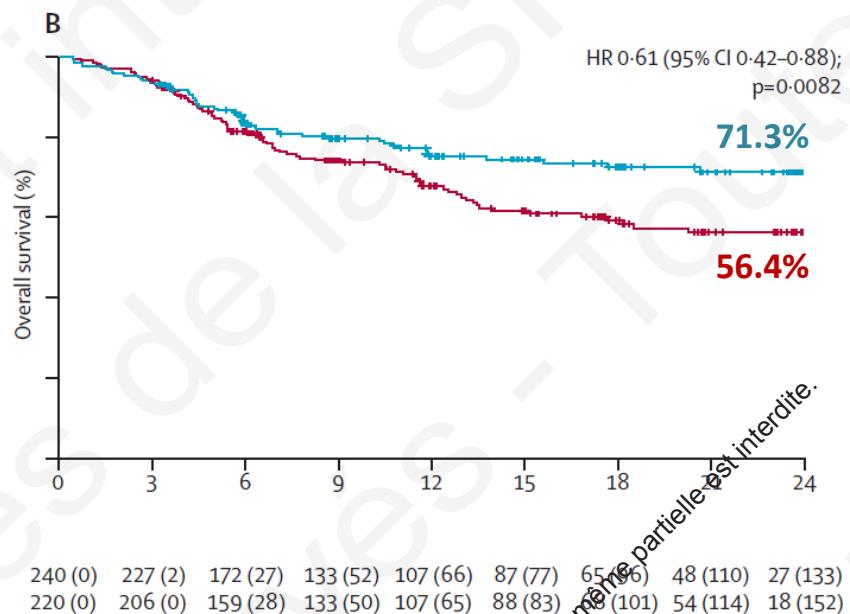
AML

	Busulfan plus fludarabine group (n=240)	Treosulfan plus fludarabine group (n=220)
All patients		
Age, years		
Median	61.0 (56.5-64.0)	60.0 (55.0-65.0)
≥50	229/240 (95%)	205/220 (93%)
Comorbidity		
HCT-CI score	3.0 (1.0-4.0)	3.0 (1.0-4.0)
HCT-CI score ≥2	140/240 (58%)	131/220 (60%)
Donor type		
Matched related donor	59/240 (25%)	52/220 (24%)
Matched unrelated donor	181/240 (75%)	168/220 (76%)
Graft source		
Peripheral blood	235/240 (98%)	214/220 (97%)
Bone marrow	5/240 (2%)	6/220 (3%)
Diagnosis		
Acute myeloid leukaemia	138/240 (58%)	155/220 (71%)
Myelodysplastic syndrome	102/240 (43%)	65/220 (30%)
Risk group*		
Low risk	13/138 (9%)	15/155 (10%)
Intermediate risk	61/138 (44%)	55/155 (36%)
High risk	43/138 (31%)	33/155 (41%)
Not applicable (if > complete remission 1)	21/138 (15%)	22/155 (14%)
MDS		
Risk group based on IPSS-R		
Very low risk	1/102 (1%)	5/65 (8%)
Low risk	16/102 (16%)	13/65 (20%)
Intermediate risk	30/102 (29%)	11/65 (17%)
High risk	24/102 (24%)	16/65 (25%)
Very high risk	31/102 (30%)	20/65 (31%)

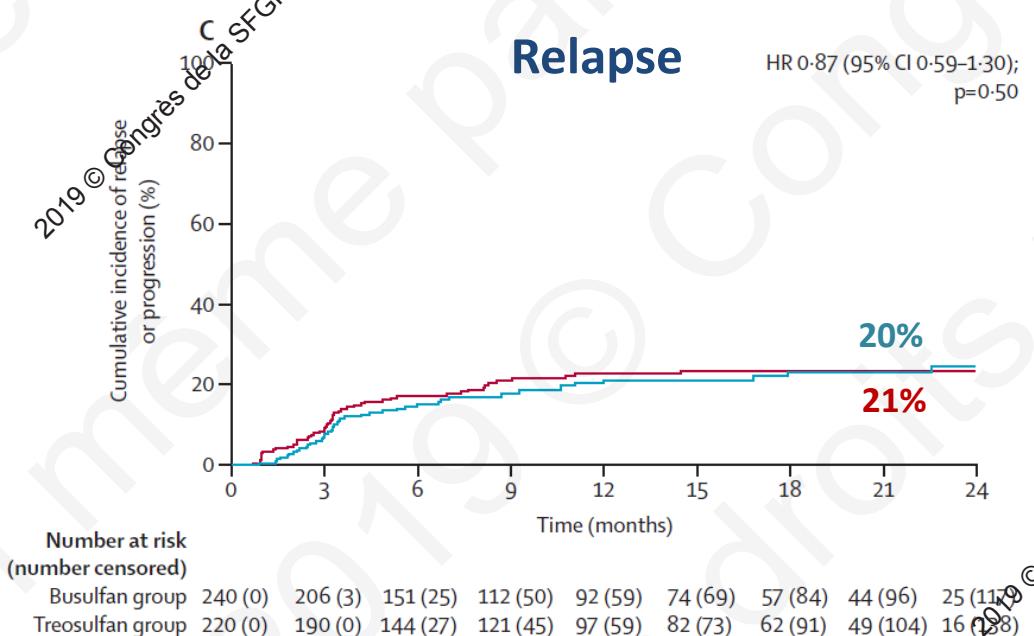
EFS



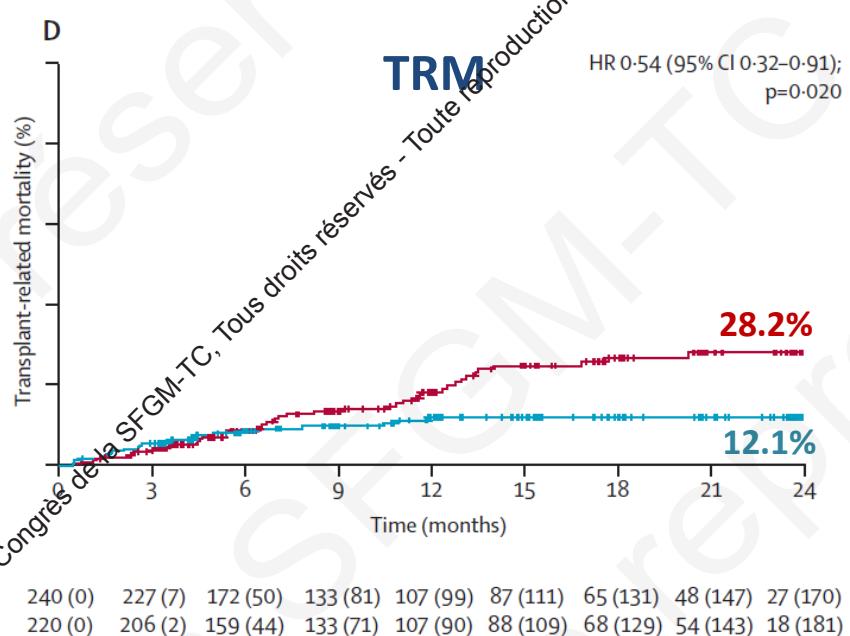
OS



Relapse



TRM



	Busulfan plus fludarabine group (n=240)	Treosulfan plus fludarabine group (n=220)	HR (95% CI)	p value
Transplantation-related mortality				
Patients with event¶	45 (19%)	23 (10%)	..	..
GvHD	18 (8%)	10 (5%)	..	..
Haemorrhage	1 (<1%)	1 (<1%)	..	..
Renal failure	0	5 (2%)	..	..
Cardiac toxicity	4 (2%)	1 (<1%)	..	..
Interstitial pneumonitis	0	1 (<1%)	..	..
Central nervous system toxicity	1 (<1%)	0	..	..
Veno-occlusive disease or hepatic sinusoidal obstruction syndrome	1 (<1%)	0	..	..
Infection	30 (13%)	19 (9%)	..	..
Multiple organ failure	5 (2%)	5 (2%)	..	..
Other transplantation-related cause	1 (<1%)	0	..	..
Patients with event later than 6 months after transplantation¶	26 (11%)	5 (2%)	..	..
GvHD	7 (3%)	3 (1%)	..	..
Renal failure	0	1 (<1%)	..	..
Cardiac toxicity	4 (2%)	1 (<1%)	..	..
Central nervous system toxicity	1 (<1%)	0	..	..
Infection	17 (7%)	3 (1%)	..	..
Multiple organ failure	2 (1%)	1 (<1%)	..	..
24-month transplantation-related mortality (95% CI)	28.2% (21.4–36.5)	22.1% (8.1–17.7)	0.54 (0.32–0.91)	0.020‡

Three prophylaxis regimens (tacrolimus, mycophenolate mofetil, and cyclophosphamide; tacrolimus, methotrexate, and bortezomib; or tacrolimus, methotrexate, and maraviroc) versus tacrolimus and methotrexate for prevention of graft-versus-host disease with haemopoietic cell transplantation with reduced-intensity conditioning: a randomised phase 2 trial with a non-randomised contemporaneous control group (BMT CTN 1203)

Javier Bolaños-Meade*, Ran Reshef*, Raphael Fraser, Mingwei Fei, Sunil Abhyankar, Zaid Al-Kadhimy, Amin M Alousi, Joseph Hystein, Sally Arai, Kate Bickett, Yi-Bin Chen, Lloyd E Damon, Yvonne A Efebera, Nancy L Geller, Sergio A Giralt, Parameswaran Hari, Shernan G Holtan, Mary M Horowitz, David A Jacobsohn, Richard J Jones, Jane L Liesveld, Brent R Logan, Margaret L MacMillan, Marco Mielcarek, Pierre Noel, Joseph Pidala, David L Porter, Iskra Pusic, Ronald Sobecks, Scott R Solomon, Daniel J Weisdorf, Juan Wu, Marcelo C Perguit, John Koreth†

**Lancet Haematol 2019;
6: e132-43**

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31 US centers

Different conditionings allowed

PBSC graft

Sibling donors or 8/8 or 7/8 HLA MUD

Any hematological disease

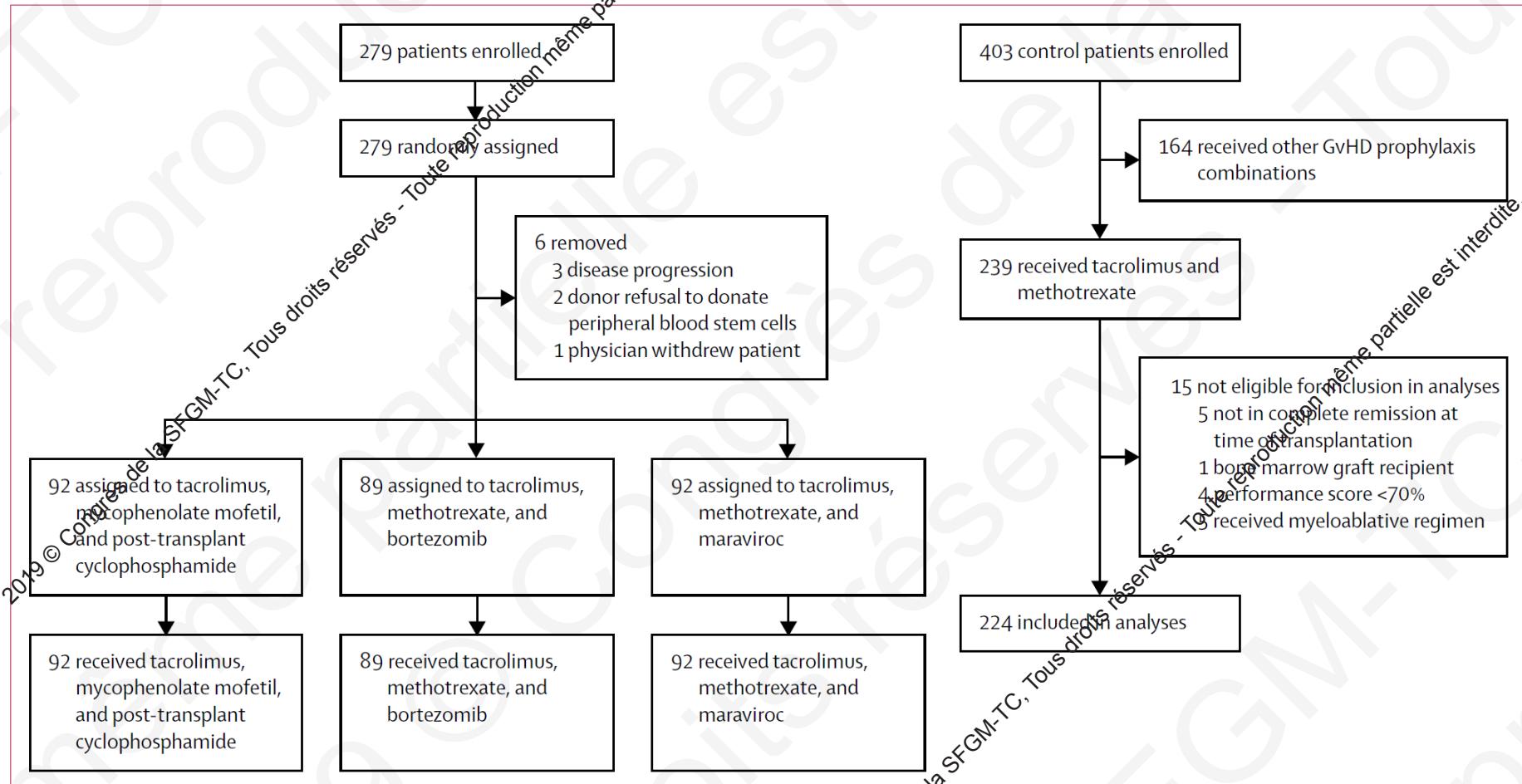
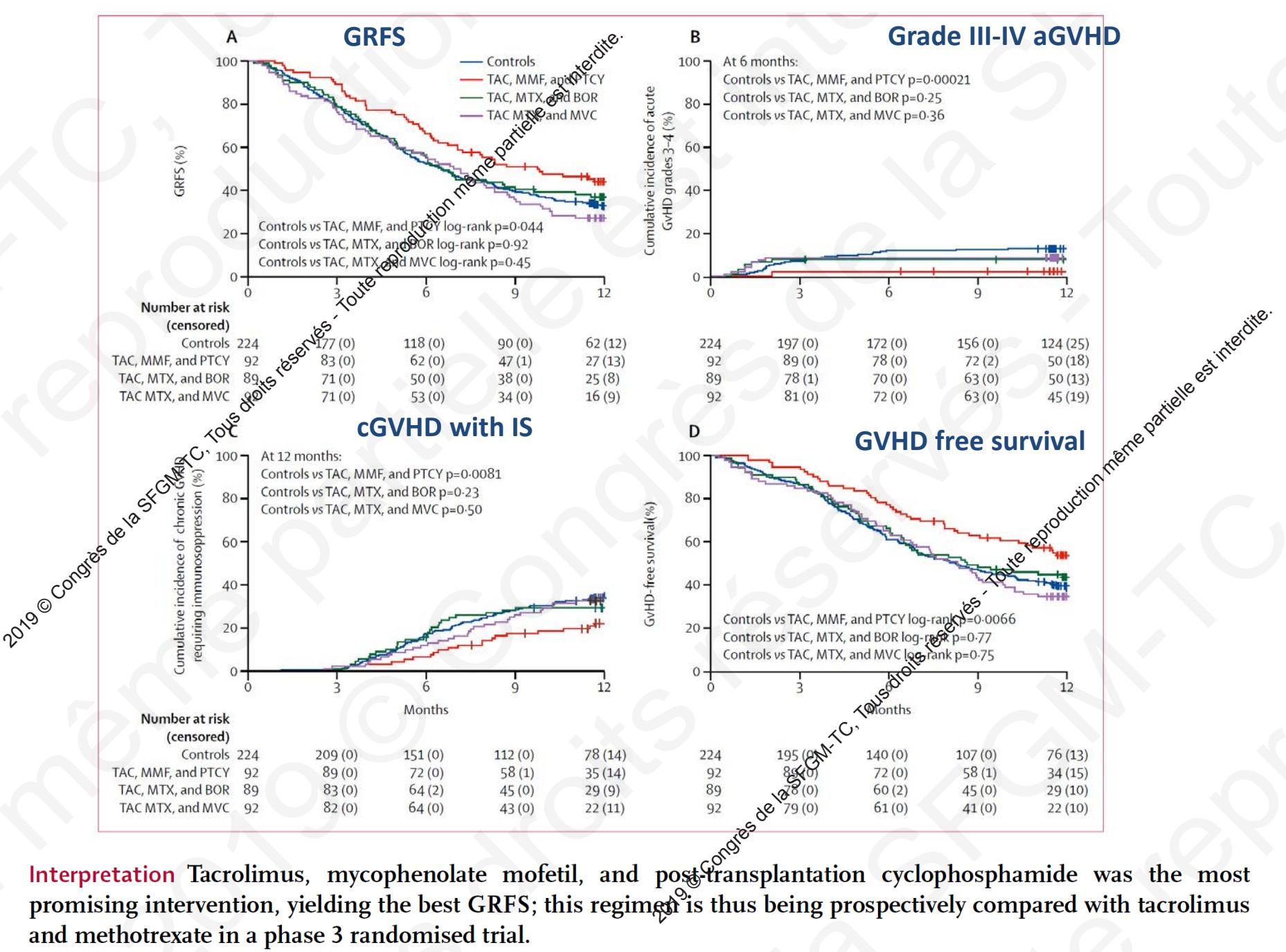


Figure 1: Trial profile

GvHD=graft-versus-host disease.

Bortezomib & .3 mg/m² on D1, D4 and D7 post-HSCT

Maraviroc= anti-CCR5 (homing of T cells to GI) D-3 to D+30



Acute GVHD prophylaxis plus ATLG after myeloablative allogeneic haemopoietic peripheral blood stem-cell transplantation from HLA-identical siblings in patients with acute myeloid leukaemia in remission: final results of quality of life and long-term outcome analysis of a phase 3 randomised study

Francesca Bonifacino, Carlos Solano, Christine Wolschke, Mariarosaria Sessa, Francesca Patriarca, Francesco Zallio, Arnon Nagler, Carmine Selleri, Antonio Marzitano, Giuseppe Messina, Wolfgang Bethge, Pilar Herrera, Anna Sureda, Angelo Michele Carella, Michele Cimminiello, Stefano Gaidi, Jürgen Finke, Roberto Sorasio, Christelle Ferra, Jorge Sierra, Domenico Russo, Edoardo Benedetti, Giuseppe Milone, Fabio Benedetti, Mario Heinzelmann, Domenico Pastore, Manuel Jurado, Elisabetta Terruzzi, Franco Narni, Andreas Völp, Francis Ayuk, Tapani Ruutu, Nicola Kröger

Lancet Haematol 2019;
6: e89–99

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MAC : FB4 ATG-G 30 mg/kg

Sibling PBSC

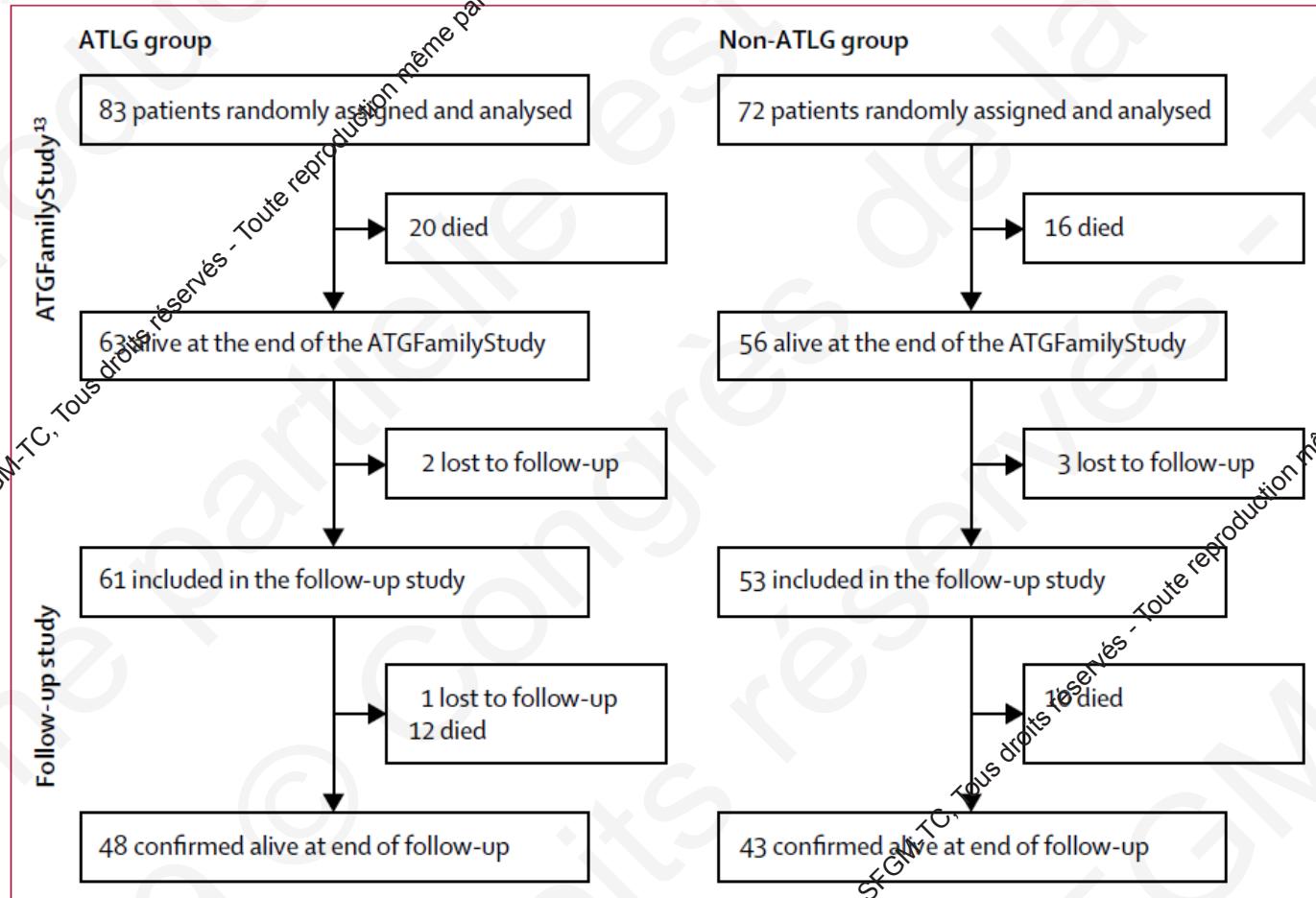
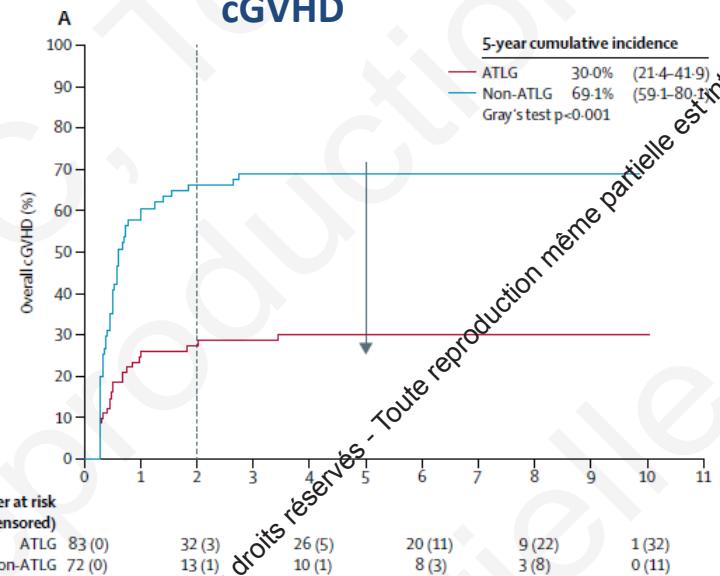


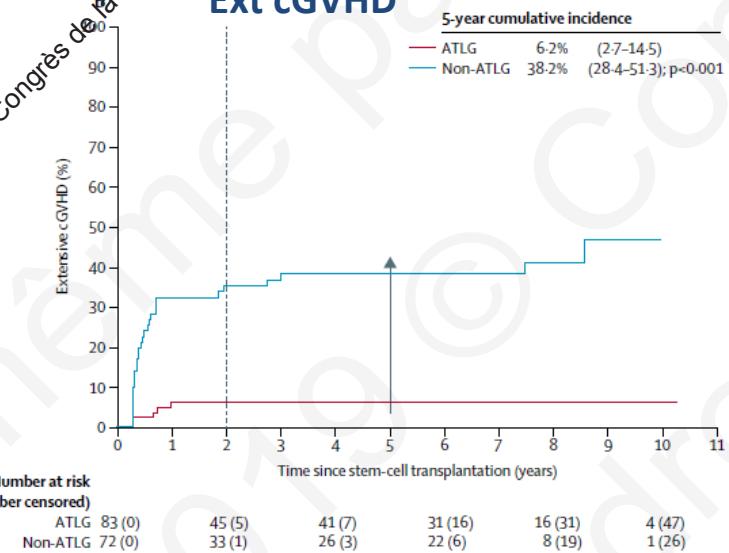
Figure 1: Trial profile

ATLG=anti-T-lymphocyte globulin.

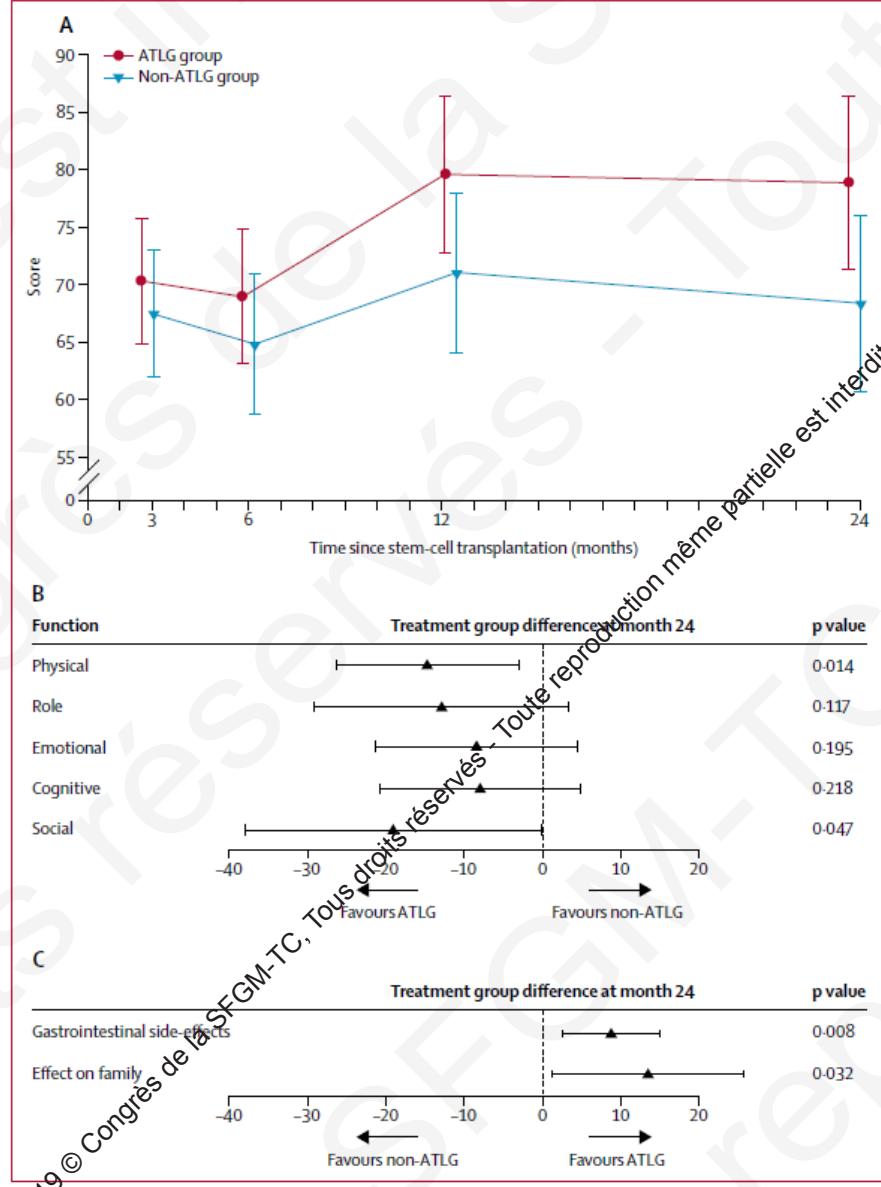
cGVHD

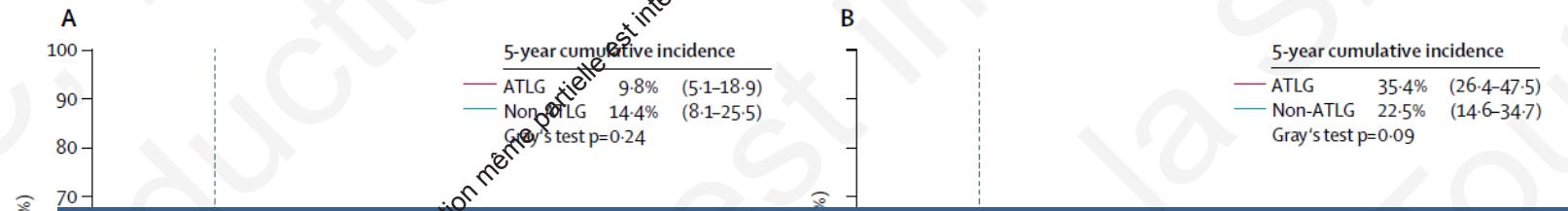


Ext cGVHD



Quality of life





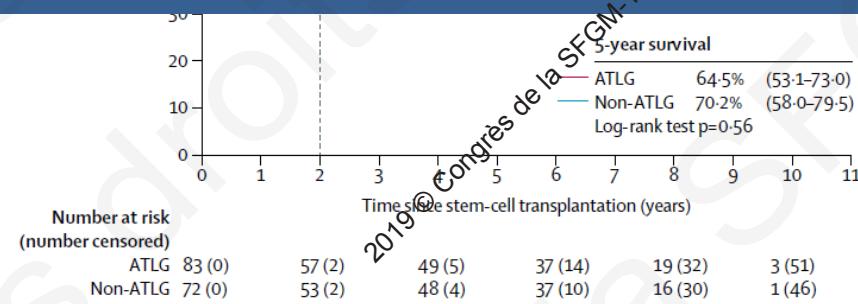
Questions concernant la prophylaxie de la GVH:

-ATG vs Endoxan post-greffe dans les greffes avec donneur phénoidentique ? :
Etude ATG-Cy en cours

-ATG ou Endoxan post-greffe dans les greffes phéno 9/10 ?
Etude Altergref en cours

-Interêt d'ajouter de l'ATG à Endoxan post-greffe en haploidentique avec greffon de CSP ?

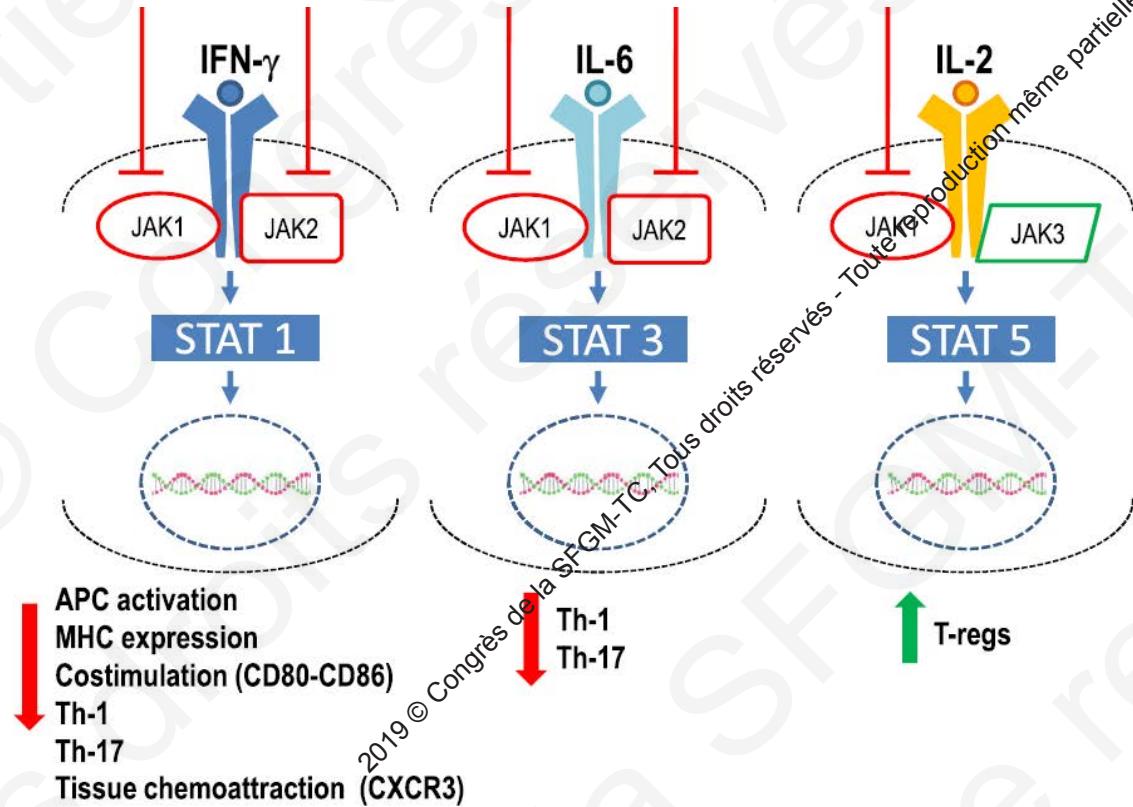
-Place des inhibiteurs de JAK dans la prévention de la GVH ?
Etude Gravitas 119 avec Itacitinib: résultats en attente



LEADING ARTICLE

Janus Kinase Inhibition for Graft-Versus-Host Disease: Current Status and Future Prospects

Daniele Mannina^{1,2} · Nicolaus Kröger¹



FDA Approval Summary: Ruxolitinib for Treatment of Steroid-Refractory Acute Graft-Versus-Host Disease

DONNA PRZEPIORKA,^a LOLA LUO,^a SRIRAM SUBRAMANIAM,^a JUNSHAN QIU,^a RAMADEVI GUDI,^a LEA C. CUNNINGHAM,^a LEI NIE,^a RUBY LEONG,^a LIAN MA,^a CHRISTOPHER SHETH,^a ALBERT DEISSEROTH,^a KIRSTEN B. GOLDBERG,^b GIDEON M. BLUMENTHAL,^b RICHARD PAZDUR^b

^aCenter for Drug Evaluation and Research and ^bOncology Center of Excellence, U.S. Food and Drug Administration, Silver Spring, Maryland, USA

Disclosures of potential conflicts of interest may be found at the end of this article.

Key Words. Ruxolitinib • Graft-versus-host disease • Hematopoietic stem cell transplantation

ABSTRACT

On May 24, 2019, the Food and Drug Administration approved ruxolitinib for steroid-refractory acute graft-versus-host disease (SR-aGVHD) in adult and pediatric patients 12 years and older. Approval was based on Study INCB 18424-271 (REACH-1; NCT02953678), an open-label, single-arm, multicenter trial that included 49 patients with grades 2–4 SR-aGVHD occurring after allogeneic hematopoietic stem cell transplantation. Ruxolitinib was administered at 5 mg twice daily, with dose increases to 10 mg twice daily permitted after 3 days in the absence of

toxicity. The Day-28 overall response rate was 57.1% (95% confidence interval [CI]: 42.2–71.2). The median duration of response was 0.5 months (95% CI: 0.3–27), and the median time from Day-28 response to either death or need for new therapy for acute GVHD was 5.7 months (95% CI: 2.2 to not estimable). Common adverse reactions included anemia, thrombocytopenia, neutropenia, infections, edema, bleeding, and elevated transaminases. Ruxolitinib is the first drug approved for treatment of SR-aGVHD. *The Oncologist* 2019;24:1–7

Implications for Practice: Ruxolitinib is the first Food and Drug Administration-approved treatment for steroid-refractory acute graft-versus-host disease in adult and pediatric patients 12 years and older. Its approval provides a treatment option for the 60% of those patients who do not respond to steroid therapy.

Guidelines for the management of cytomegalovirus infection in patients with haematological malignancies and after stem cell transplantation from the 2017 European Conference on Infections in Leukaemia (ECL 7)

Per Ljungman, Rafael de la Camara, Christine Robin, Roberto Crocchiolo, Hermann Einsele, Joshua A Hill, Petr Hubacek, David Navarro, Catherine Cordonnier, Katherine N Ward, on behalf of the 2017 European Conference on Infections in Leukaemia group*

Lancet Infect Dis 2019

Recommendations for antiviral prophylaxis after allogeneic HSCT

European Society of Clinical Microbiology and Infectious Diseases recommendation grading ^a	Study	Comment
Aciclovir	CI	Prentice et al (1994) ⁹² Milano (2011) ⁹³ Less effective than valaciclovir.
Valaciclovir	BI	Ljungman (2002) ⁹⁴ Winston (2003) ⁹⁵ Milano (2011) ⁹³ Used together with pre-emptive therapy
Ganciclovir	CI	Winston (1993) ⁹⁶ Goodrich (1993) ⁹⁷ Used at engraftment
Valganciclovir	CIlh	Montesinos (2009) ⁹⁸ Boeckh (2015) ⁹⁹ Third blood HSCT used in Montesinos et al; ⁹⁸ prophylaxis against late cytomegalovirus disease
Foscarnet	DIIu	Ordemann (2000) ¹⁰⁰ Bregante (2000) ¹⁰¹ NA
Letermovir	AI	Marty (2011) ¹⁰² Only effective against cytomegalovirus

HSCT=haematopoietic stem cell transplantation. NA=not applicable.

Table: Recommended drugs for antiviral prophylaxis after allogeneic HSCT

Letermovir for primary and secondary cytomegalovirus prevention in allogeneic hematopoietic cell transplant recipients: Real-world experience

Andrew Lin¹ | Molly Maloy² | Huiqi Su³ | Valkal Bhatt¹ | Lauren DeRespiris¹ | Meagan Griffin¹ | Carmen Lau¹ | Anthony Proli¹ | Juliet Barker^{2,4} | Brian Shaffer^{2,4} | Sergio A. Giralt^{2,4} | Ann A. Jakubowski^{2,4} | Esperanza B. Papadopoulos^{2,4} | Genovefa A. Papanicolaou^{2,4} | Susan K. Seo^{3,4} | Miguel-Angel Perales^{2,4}

Transpl Infect Dis. 2019;00:e13187.
<https://doi.org/10.1111/tid.13187>

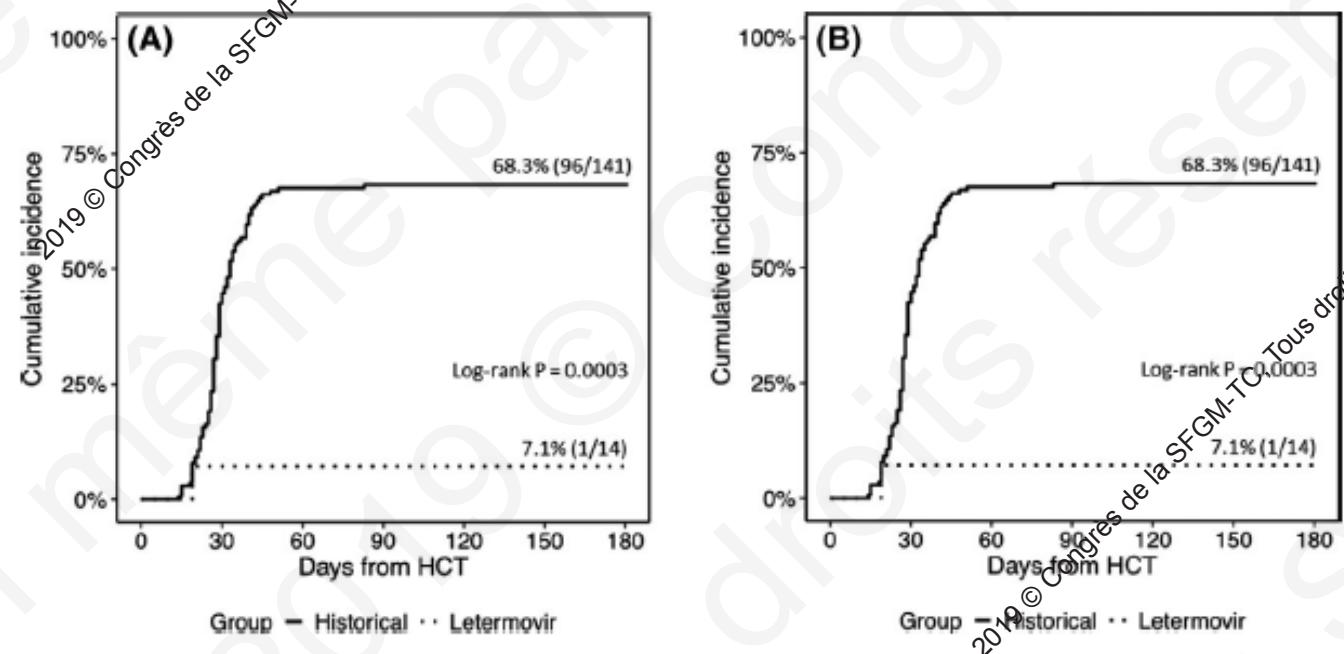
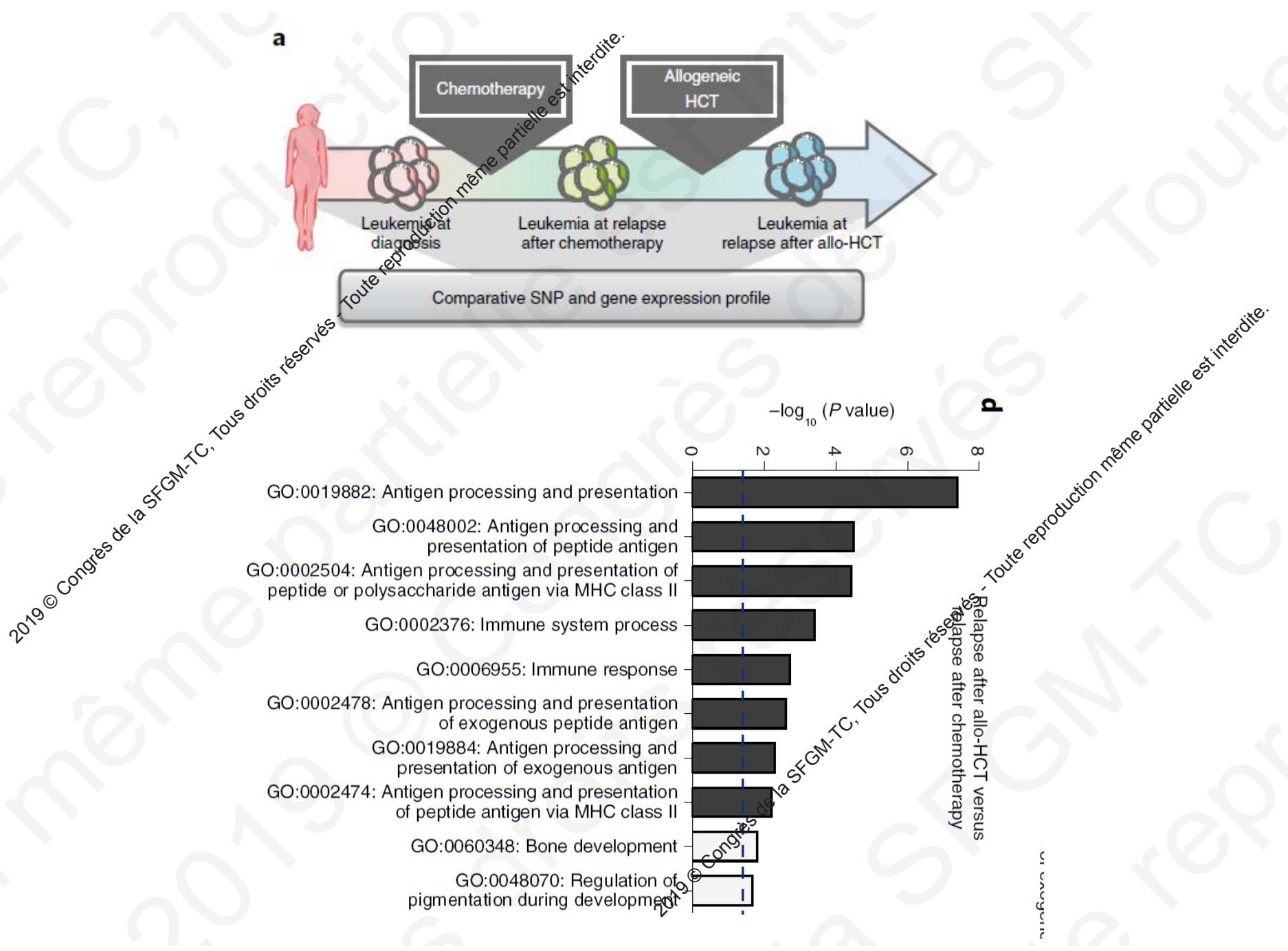


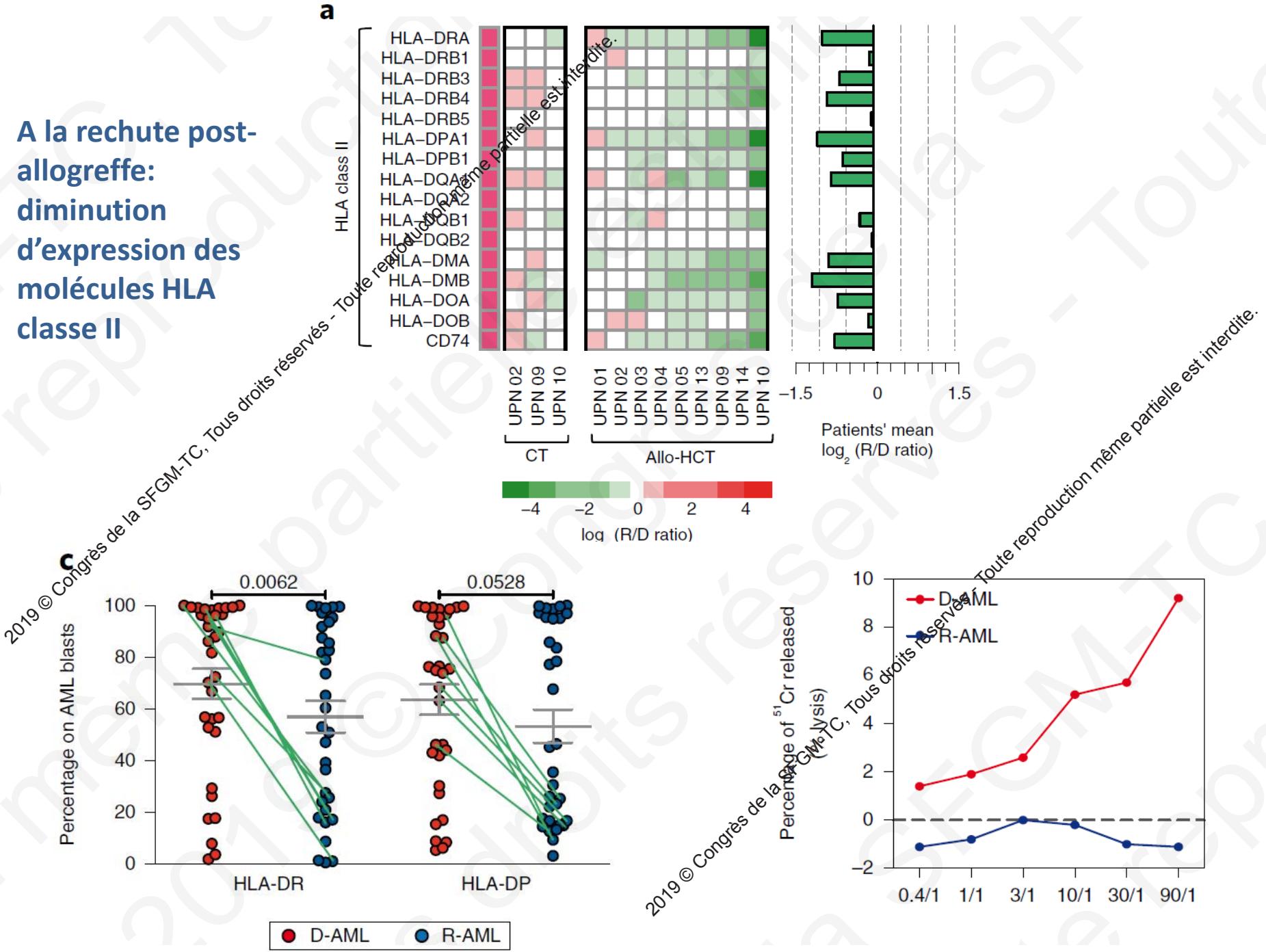
FIGURE 1 A, Cumulative incidence of CMV viremia by D + 180 in CMV R + TCD allo-HCT; B, Cumulative incidence of CMV end-organ disease by one year in CMV R + TCD allo-HCT

Immune signature drives leukemia escape and relapse after hematopoietic cell transplantation

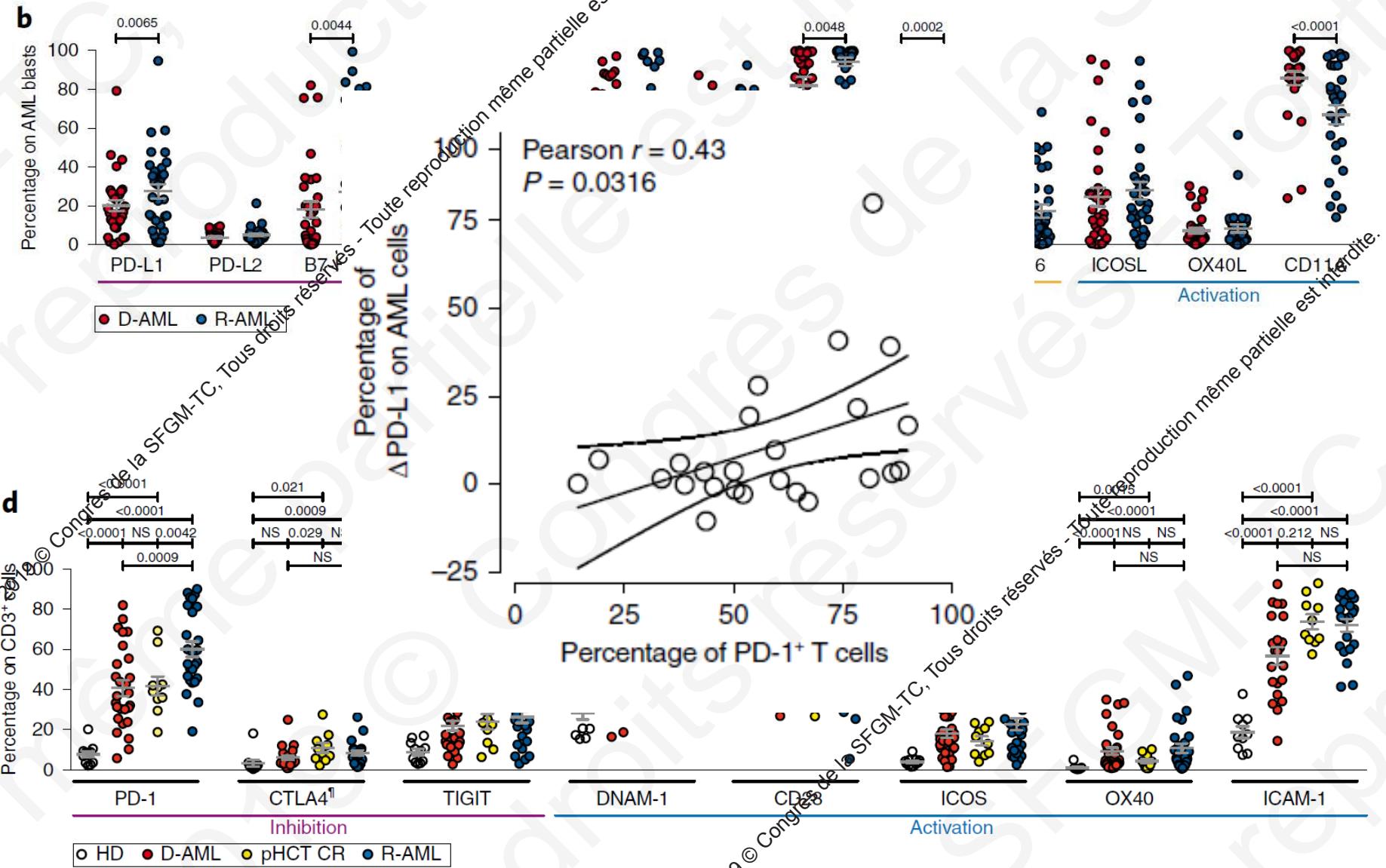
Cristina Toffalori¹, Laura Zito^{1,21}, Valentina Gambacorta^{1,2,21}, Michela Riba^{3,21}, Giacomo Oliveira^{1,4,21},
Gabriele Bucco^{1,3}, Matteo Barcella⁵, Orietta Spinelli^{1,6}, Raffaella Greco⁷, Lara Crucitti^{7,20},
Nicoletta Ciceri^{4,7,20}, Maddalena Noviello⁴, Francesco Manfredi⁴, Elisa Montaldo⁸, Renato Ostuni^{1,9,21},
Matteo M. Naldini⁹, Bernhard Gentner^{7,9}, Miguel Waterhouse¹⁰, Robert Zeiser¹⁰, Jurgen Finke¹⁰,
 Maher Hanoun¹¹, Dietrich W. Beelen¹¹, Ivana Gojo¹², Leo Luznik¹², Masahiro Onozawa¹³,
Takanori Teshima¹³, Raynier Devillier¹⁴, Didier Blaise¹⁴, Constantijn J. M. Halkes¹⁵, Marieke Griffioen¹⁵,
Matteo G. Carrabba⁷, Massimo Bernardi⁷, Jacopo Peccatori⁷, Cristina Barlassina⁵, Elia Stupka^{3,19},
Dejan Lazarevic^{1,3}, Giovanni Tonon³, Alessandro Rambaldi^{6,16}, Davide Ciftarò^{1,3}, Chiara Bonini^{4,17},
Katharina Fleischhauer^{1,18}, Fabio Ciceri^{7,17,22} and Luca Vago^{1,7,22*}



A la rechute post-allogreffe: diminution d'expression des molécules HLA classe II



Rechute post-allogreffe: exhaustion de la réponse T



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ORIGINAL ARTICLE

Anti-BCMA CAR T-Cell Therapy bb2121 in Relapsed or Refractory Multiple Myeloma

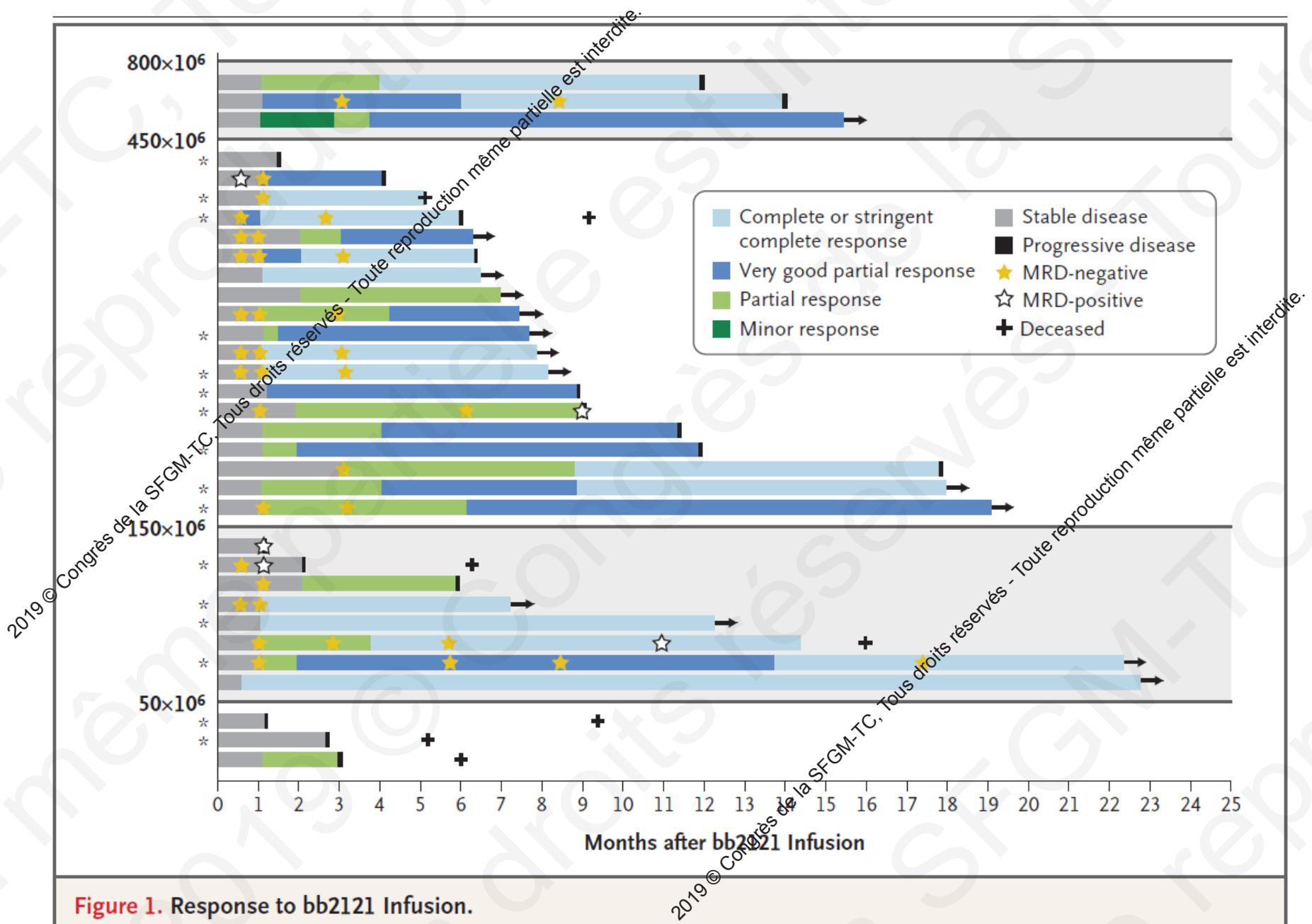
Noopur Raje, M.D., Jesus Berdeja, M.D., Yi Lin, M.D., Ph.D.,
David Siegel, M.D., Ph.D., Sundar Jagannath, M.D., Deepu Madduri, M.D.,
Michaela Liedtke, M.D., Jacalyn Rosenblatt, M.D., Marcela V. Maus, M.D., Ph.D.
Ashley Turka, Lyh-Ping Lam, Pharm.D., Richard A. Morgan, Ph.D.,
Kevin Friedman, Ph.D., Monica Massaro, M.P.H., Julie Wang, Pharm.D., Ph.D.,
Greg Russotti, Ph.D., Zhihong Yang, Ph.D., Timothy Campbell, M.D., Ph.D.,
Kristen Hege, M.D., Fabio Petrocca, M.D., M. Travis Quigley, M.S.,
Nikhil Munshi, M.D., and James N. Kochenderfer, M.D.

N=33

MM réfractaires ou en rechute après en médiane 7 lignes de traitement, incluant une autogreffe dans > 90% des cas

Age: 37 à 74 ans

CAR anti-BCMA (Celgene)



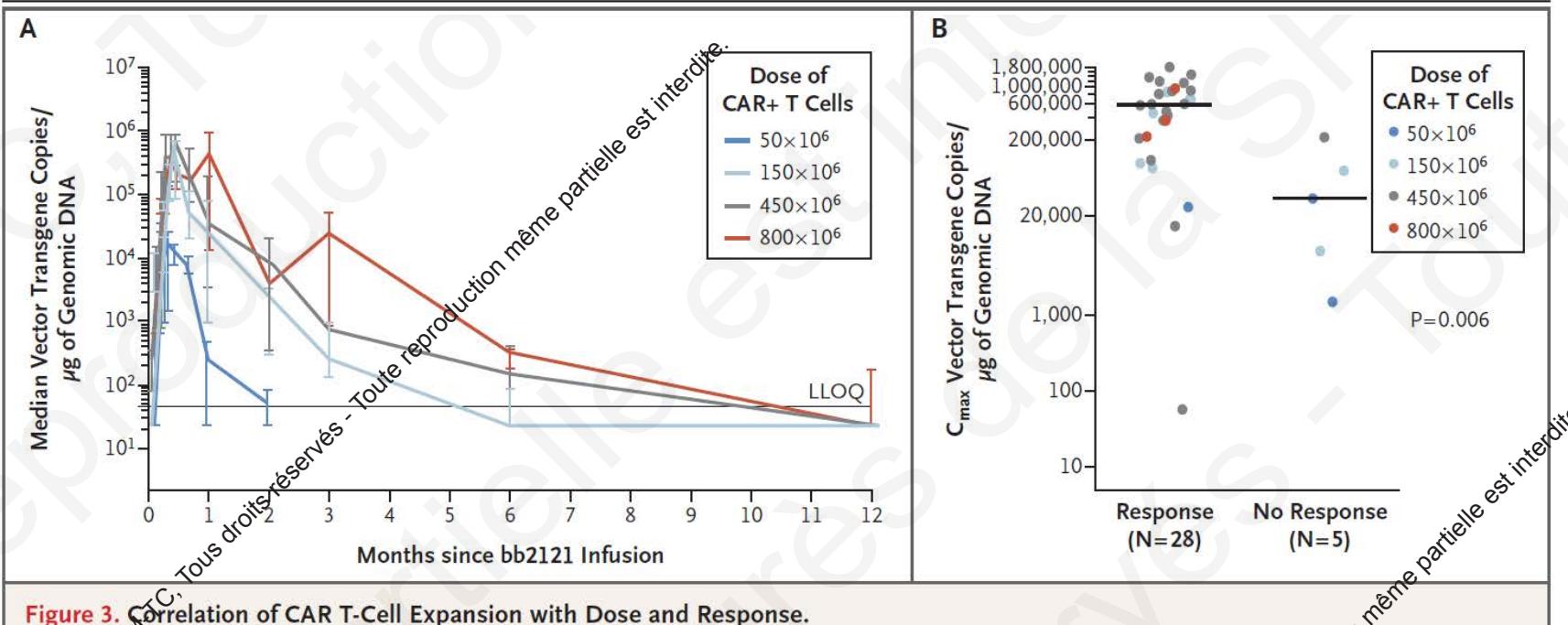
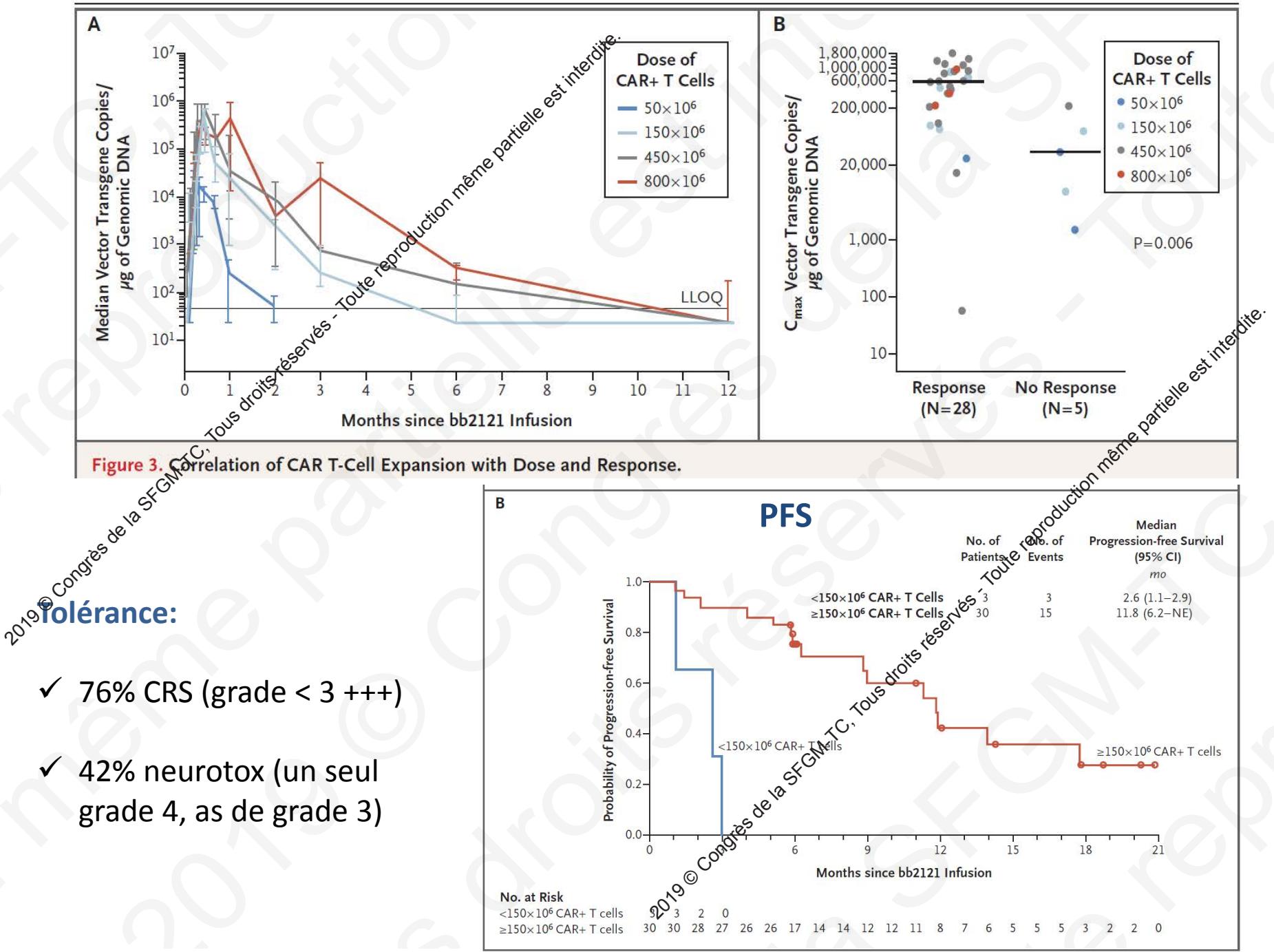


Figure 3. Correlation of CAR T-Cell Expansion with Dose and Response.



A combination of humanised anti-CD19 and anti-BCMA CAR T cells in patients with relapsed or refractory multiple myeloma: a single-arm, phase 2 trial

Zhilong Yan*, Jiang Cao*, Hai Cheng, Jianlin Qiao, Kuanxin Zhang, Ying Wang, Ming Shi, Jianping Lan, Xiaoming Fei, Lai Jin, Guangjun Jing, Wei Sang, Feng Zhu, Wei Chen, Qingyun Wu, Yu Yao, Gang Wang, Jing Zhao, Junnian Zheng†, Zhenyu Li†, Kailin Xu†

Lancet Haematol 2019

N=25

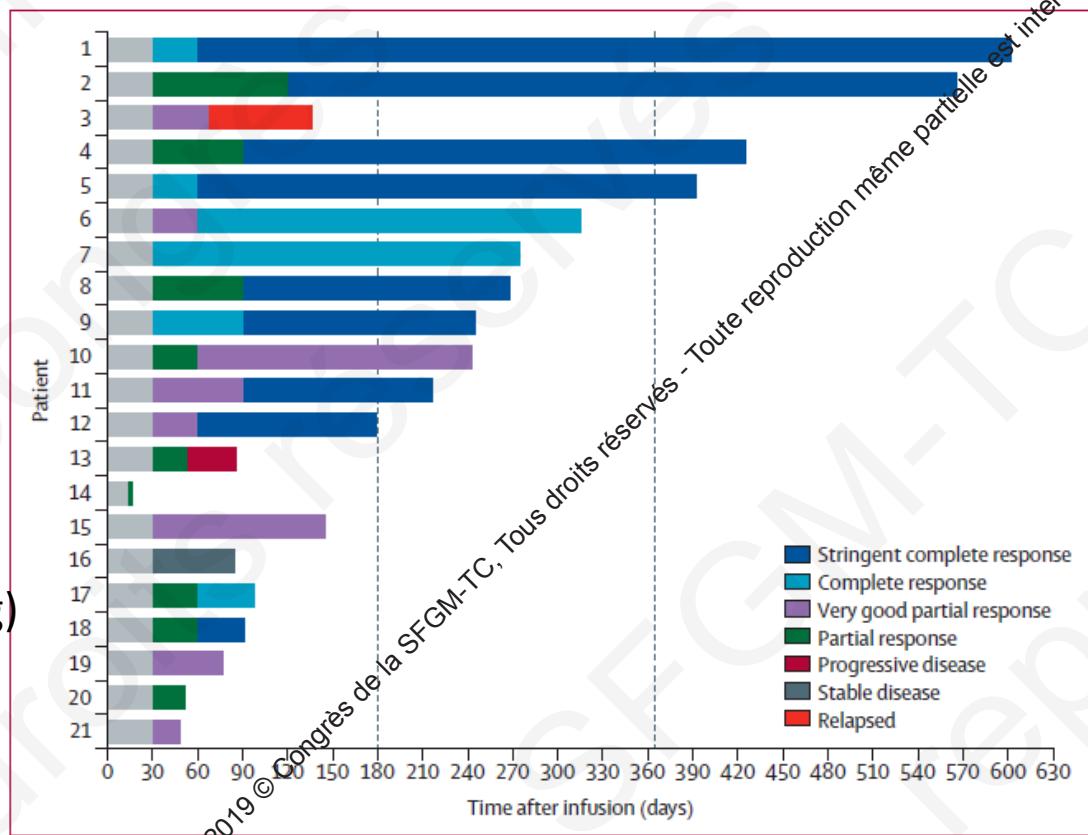
MM réfractaires ou en rechute
après en médiane 6 lignes de
traitement

Age: 49 à 61 ans

CAR T produit localement:

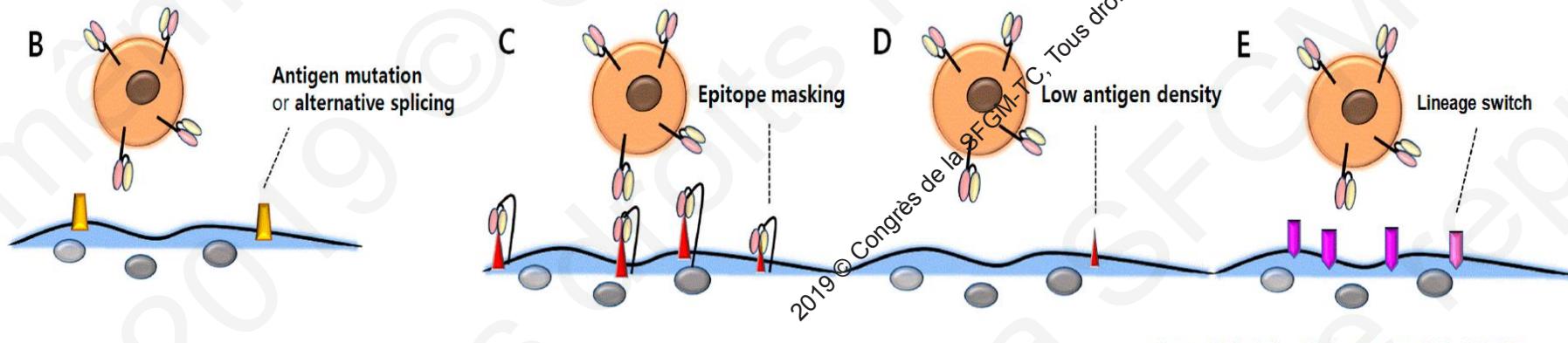
CAR T anti-CD19 (10^6 CAR-T/kg)

CAR anti-BCMA 41-BB (10^6 CAR-T/kg)



Echappement / résistance aux CAR-T cells

Study	Patients (n)	Response Rate	Relapsed or not Responded Rate	CD19 (-) Relapse Rate (%)
CHOP (Maude et al.)	Pediatric and adult B-ALL (30)	CR, 27 of 30 (90%)	8 of 27 (29.6%)	3 of 27 (11.1%)
ELIANA (Maude et al.)	Pediatric and young Adult B-ALL (75)	CR, 61 of 75 (81%)	17 of 61 (27.9%)	15 of 61 (24.6%)
NCI (Lee et al.)	Pediatric and adult B-ALL (21)	CR, 14 of 21 (66.7%)	7 of 14 (50%)	2 of 14 (14.3%)
SCRI (Gardner el al.)	Pediatric and adult B-ALL (7)	CR, 100%	2 of 7 (28.6%)	2 of 7 (28.6%), lineage-witch
MSKCC (Park et al.)	Adult B-ALL (53)	CR, 44 of 53 (83%)	25 of 44 (57%)	4 of 44 (9%)
FHCRC (Turtle et al.)	Adult B-ALL (29)	CR, 27 of 29 (93%)	9 of 27 (33.3%)	2 of 27 (7.4%)
ZUMA-1 (Neelapu et al.)	DLBCL, PMBCL, tFL (111)	ORR, 82 % (CR, 54%)	52 of 111 (46.8%)	3 of 11 analyzed (27.2%)
Schuster et al.	DLBCL, FL (28)	ORR, 52 % (CR, 40%)	5 of 28 (17.9%)	1 of 5 analyzed, (20%)
Jacobson et al.	Aggressive B-NHL (73)	ORR, 57 % (CR, 36%)	Unknown	1 of 4 analyzed, (25%)
Oak et al.	DLBCL, PMBCL, tFL (22)	ORR, 86 % (CR, 45.5%)	5 (22.7%)	2 of 4 analyzed, (50%)



DUAL ou MULTI CAR-T cells

TABLE 1 | Actively recruiting ClinicalTrials.gov registered studies using tandem CARs or administration of multiple single CARs.

CAR	NCT number	B cell malignancy	Site
Sequential CD19, CD20	NCT03207178	Non-specified	Shanghai, China
Multiple mixtures (CD19 + CD22, CD38, CD20, CD123, CD70, or CD30)	NCT03125577	Non-specified	Guangzhou, Shenzhen & Kunming, China
"Armored" CD19	NCT03085173	CLL	New York, NY, USA
CD19–CD20 dual	NCT03398967	Leukemia, Lymphoma	Beijing, China
CD19–CD22 dual	NCT03019055	Lymphoma, CLL	Milwaukee, WI, USA
	NCT03614858	Leukemia	Suzhou, China
	NCT03593109	Lymphoma	Xi'an, China
	NCT03468153	Lymphoma	Shanghai, China
	NCT03448393	Leukemia, Lymphoma	Bethesda, MD, USA
	NCT03398967	Leukemia, Lymphoma	Beijing, China
	NCT03330691	Leukemia, Lymphoma	Seattle, WA, USA
	NCT03289455	Leukemia	London & Manchester, UK
	NCT03287817	Lymphoma	London, Manchester & Newcastle, UK
	NCT03241940	Leukemia	Palo Alto, CA, USA
	NCT03233854	Lymphoma	Palo Alto, CA, USA

Anti-CD19 Chimeric Antigen Receptor T Cells in Combination With Nivolumab Are Safe and Effective Against Relapsed/Refractory B-Cell Non-hodgkin Lymphoma

Yaqing Cao^{1†}, Wenyi Lu^{2†}, Rui Sun¹, Xin Jin³, Lin Cheng¹, Xiaoyuan He³, Luqiao Wang¹, Ting Yuan², Cuicui Lyu² and Mingfeng Zhao^{2*}

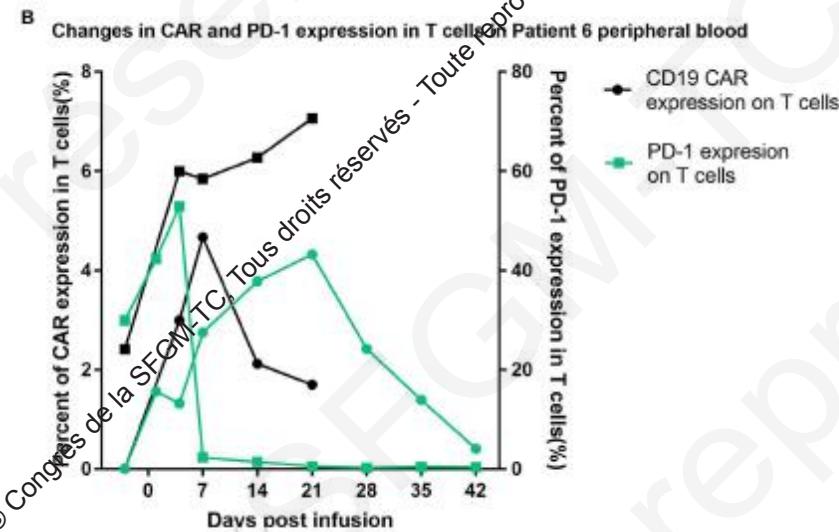
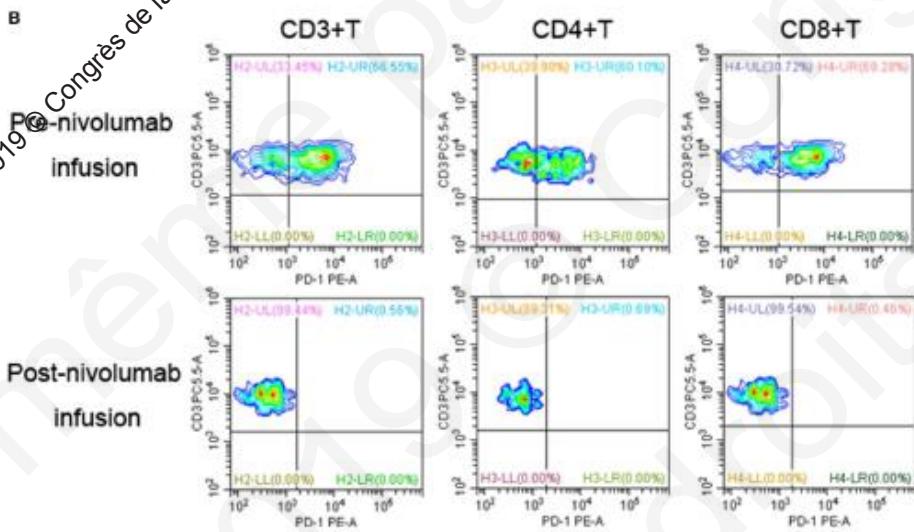
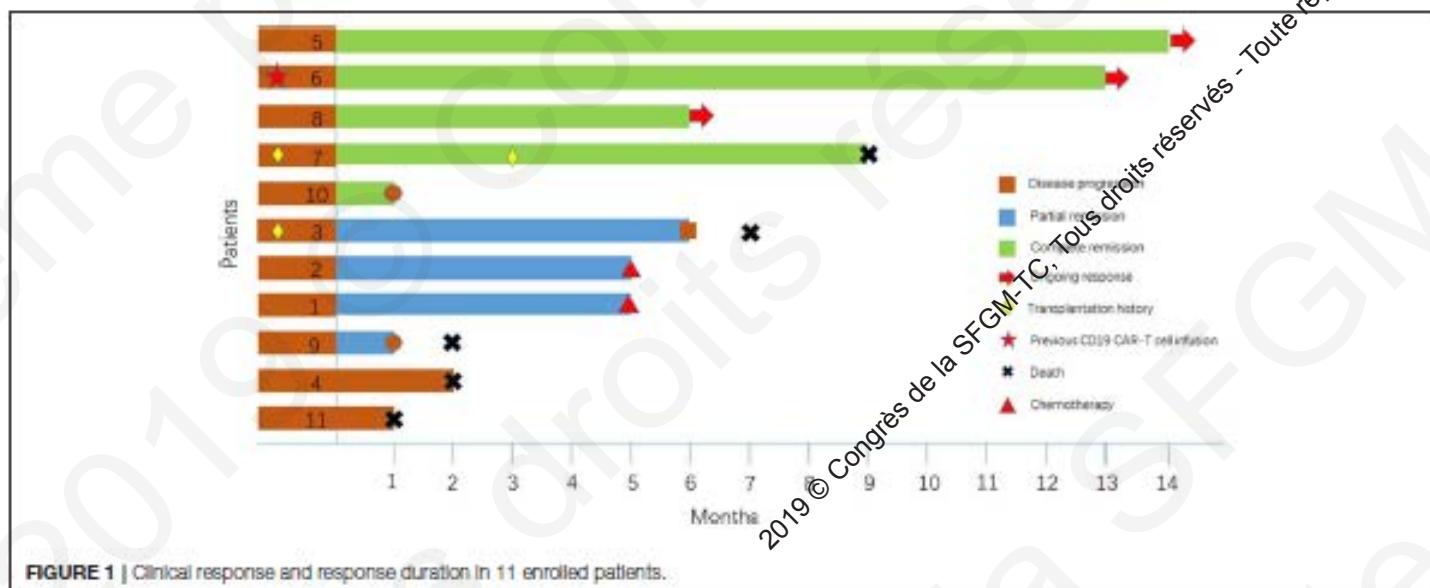


TABLE 2 | Patient response and toxicity.

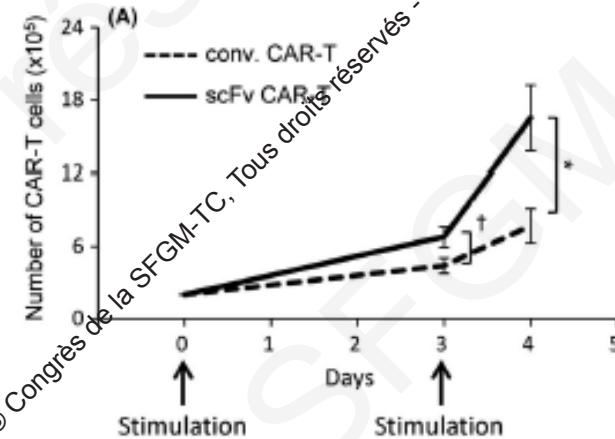
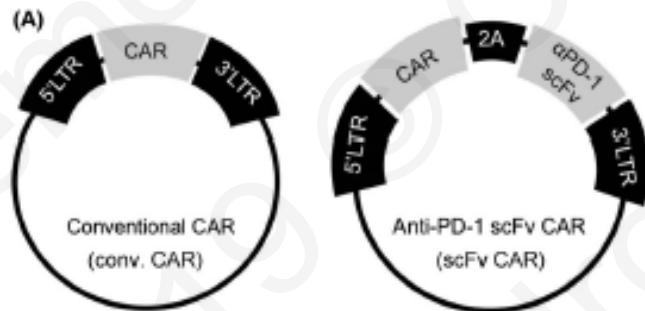
Patient no.	Disease status at study entry	Conditioning regimen before T cell Infusion	No. of CAR-positive T cells infused (10 ⁶ /kg)	Response		CRS grade	Grade 3 toxicities (excluding CRS)
				Type	Duration		
1	PD	FC	8	PR	5	1	None
2	PD	FC	10	PR	5	2	None
3	PD	FC	5	PR	6	2	Febrile neutropenia, anemia, neutropenia, thrombocytopenia
4	PD	FC	11	NR	/	None	None
5	PD	FC	6	CR	14+	1	None
6	PD	FC	11	CR	13+	None	None
7	PD	FC	8	CR	9	2	Gamma glutamyl transpeptidase level increased, febrile neutropenia, anemia, neutropenia, thrombocytopenia
8	PD	FC	8	CR	6+	1	None
9	PD	FC	11	PR	1	2	Gamma glutamyl transpeptidase level increased
10	PD	FC	6	CR	1	2	Heart failure, thrombocytopenia
11	PD	FC	5	NR	/	2	Febrile neutropenia, neutropenia



ORIGINAL ARTICLE

Improved survival of chimeric antigen receptor-engineered T (CAR-T) and tumor-specific T cells caused by anti-programmed cell death protein 1 single-chain variable fragment-producing CAR-T cells

Masao Nakajima^{1,2} | Yukimi Sakoda¹ | Keishi Adachi¹ | Hiroaki Nagano² |
Koji Tamada¹ 

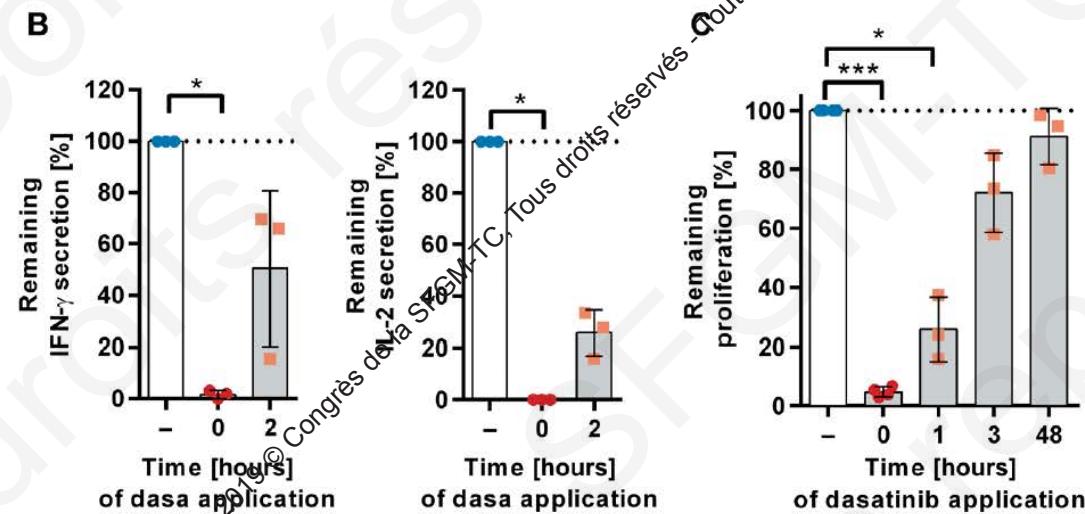
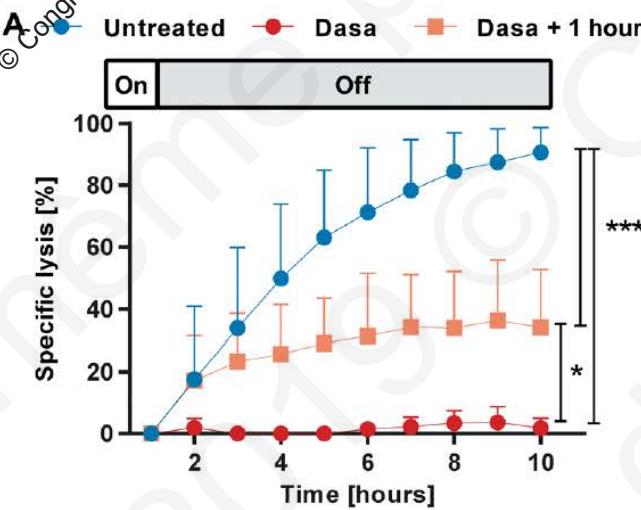


CANCER

The tyrosine kinase inhibitor dasatinib acts as a pharmacologic on/off switch for CAR T cells

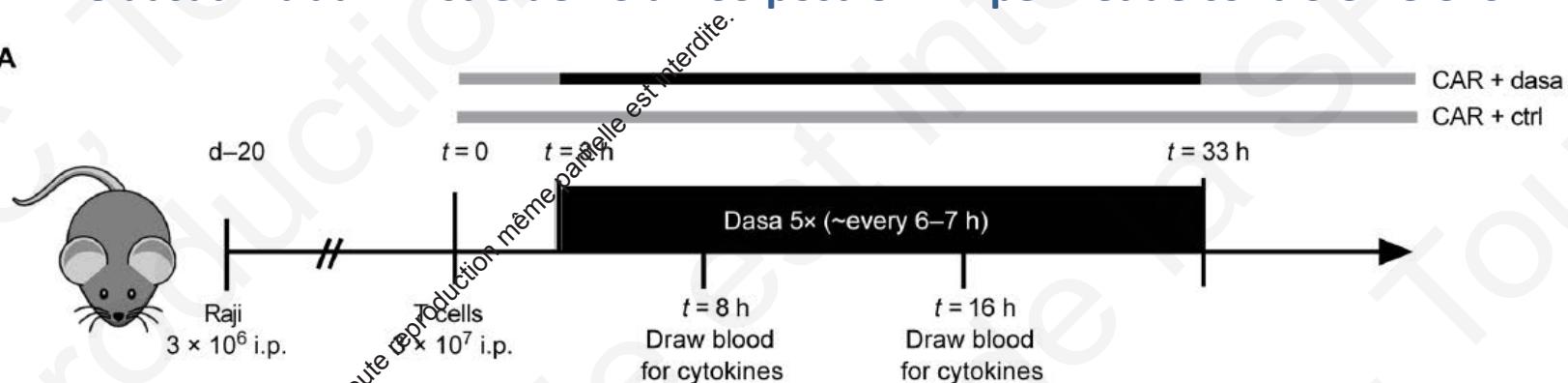
Katrin Mestermann¹, Theodoros Giavridis², Justus Weber¹, Julian Rydzek¹, Silke Frenz¹, Thomas Nerreter¹, Andreas Mades¹, Michel Sadelain², Hermann Einsele¹, Michael Hudecek^{1*}

Mestermann et al., *Sci. Transl. Med.* 11, eaa5907 (2019) 3 July 2019

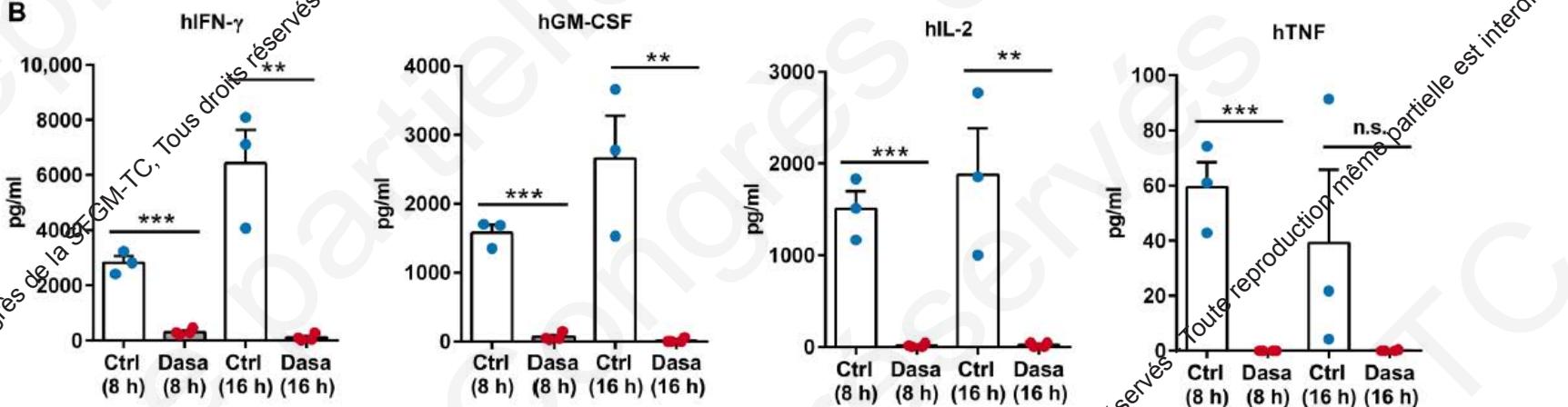


Le dasatinib administré de H3 à H33 post-CAR-T permet de contrôler le CRS

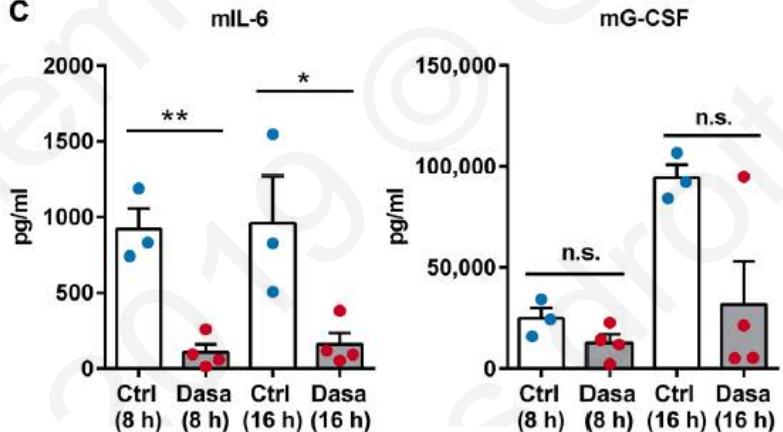
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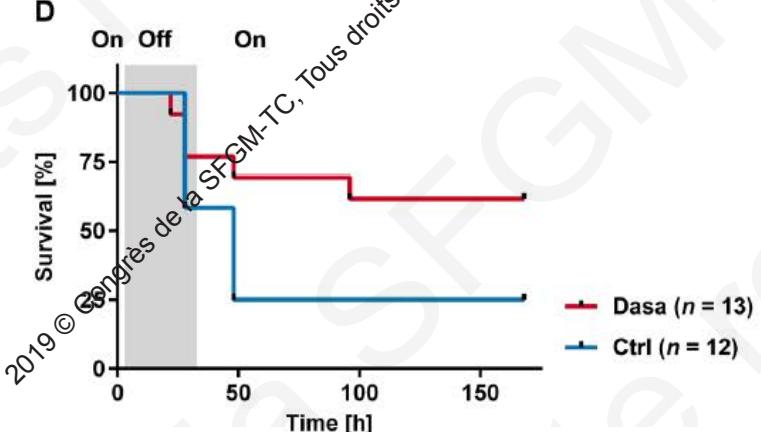
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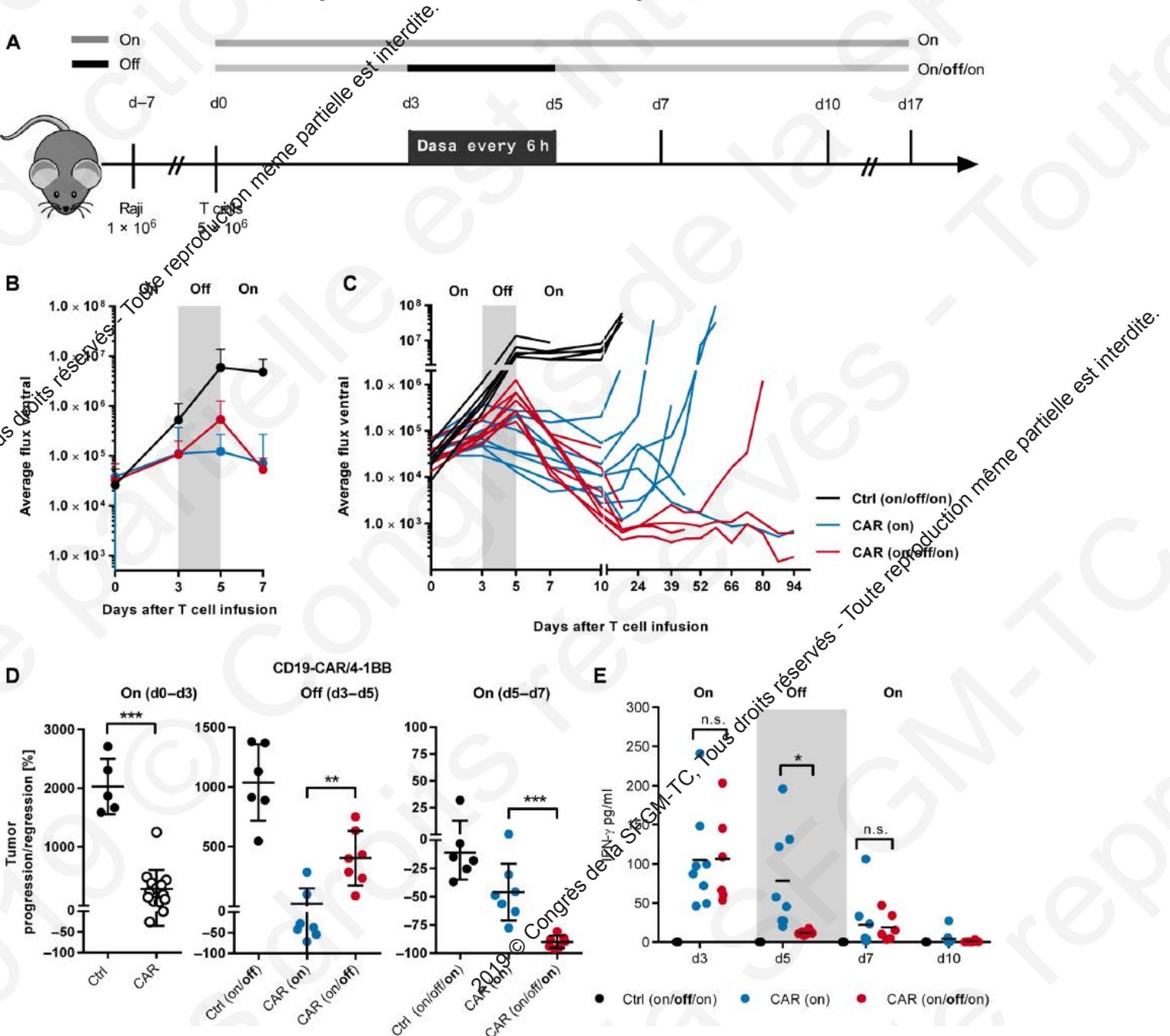
C



D



Le dasatinib administré de J3 à H5 post-CAR-T: effet suspensif sur l'efficacité du CAR-T



RESEARCH ARTICLE

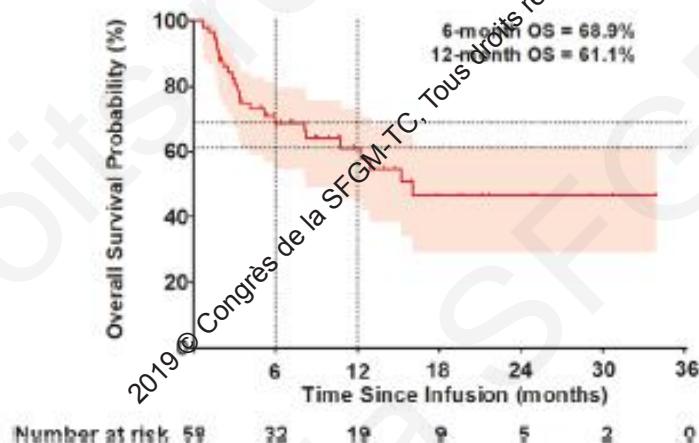
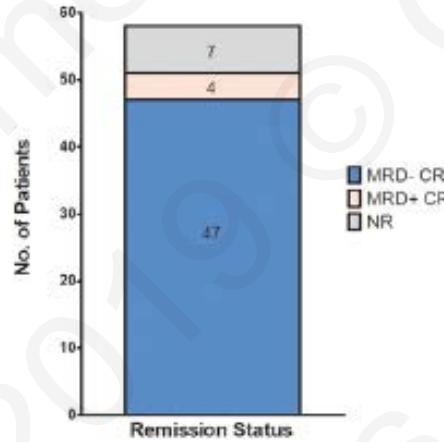
Anti-CD19 chimeric antigen receptor-modified T-cell therapy bridging to allogeneic hematopoietic stem cell transplantation for relapsed/refractory B-cell acute lymphoblastic leukemia: An open-label pragmatic clinical trial

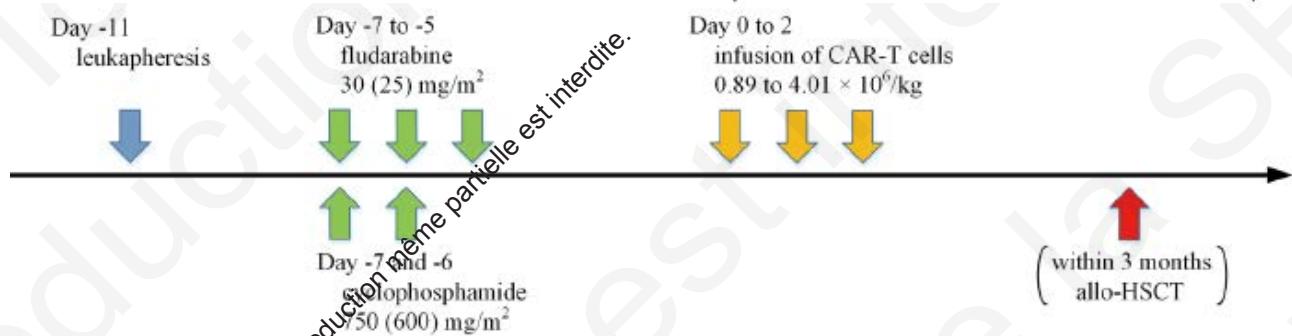
Huiwen Jiang^{1,2}  | Chenggong Li^{1,2} | Ping Yin³ | Tao Guo^{1,2} | Lin Liu¹ |

Linghui Xia¹ | Yaohui Wu^{1,2} | Fen Zhou^{1,4} | Lisha Ai¹ | Wei Shi¹ | Xuan Lu¹

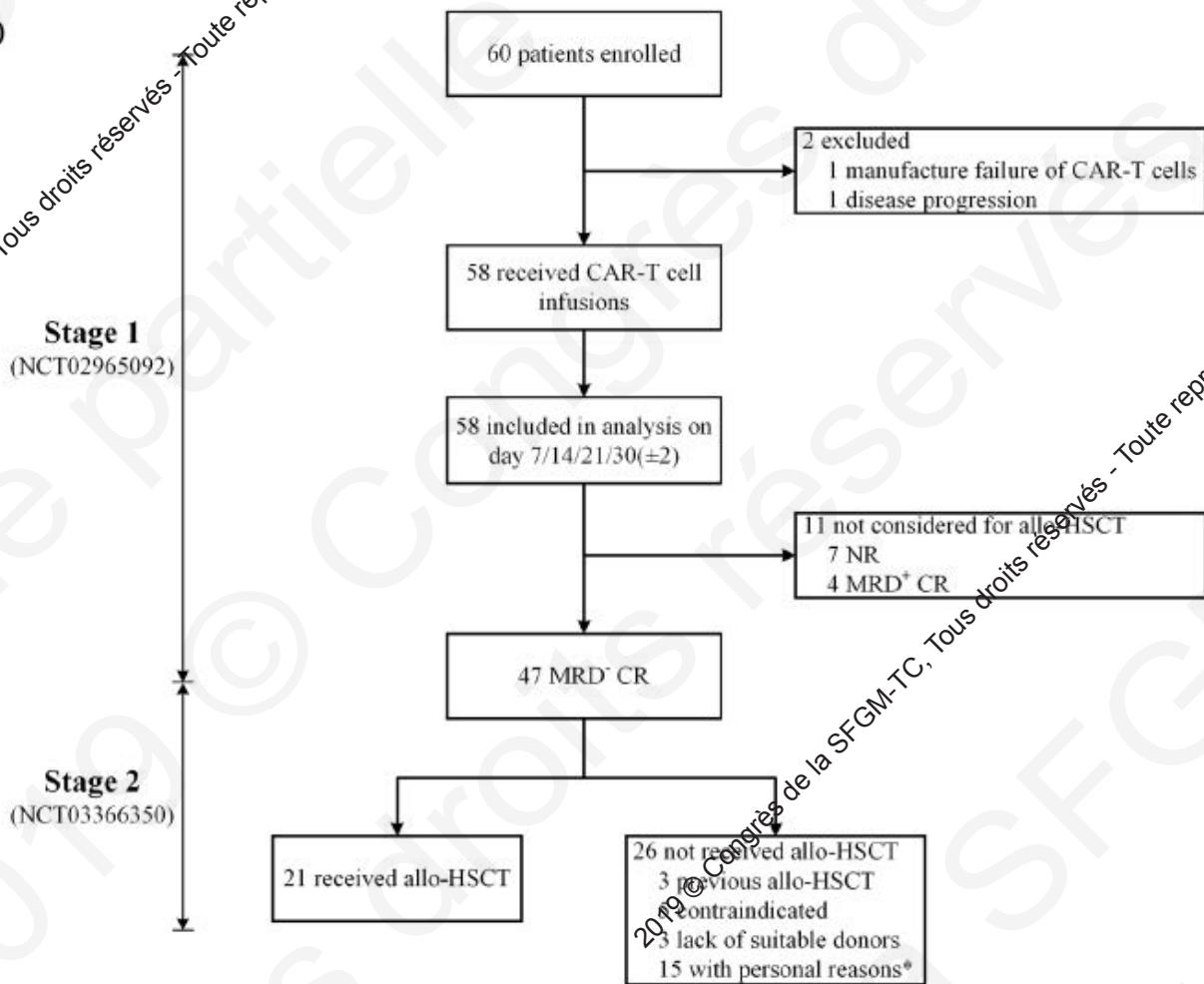
Haifang Wang¹ | Lu Tang^{1,2} | Qiuzhe Wei¹ | Jun Deng^{1,2} | Runming Jin^{1,4}

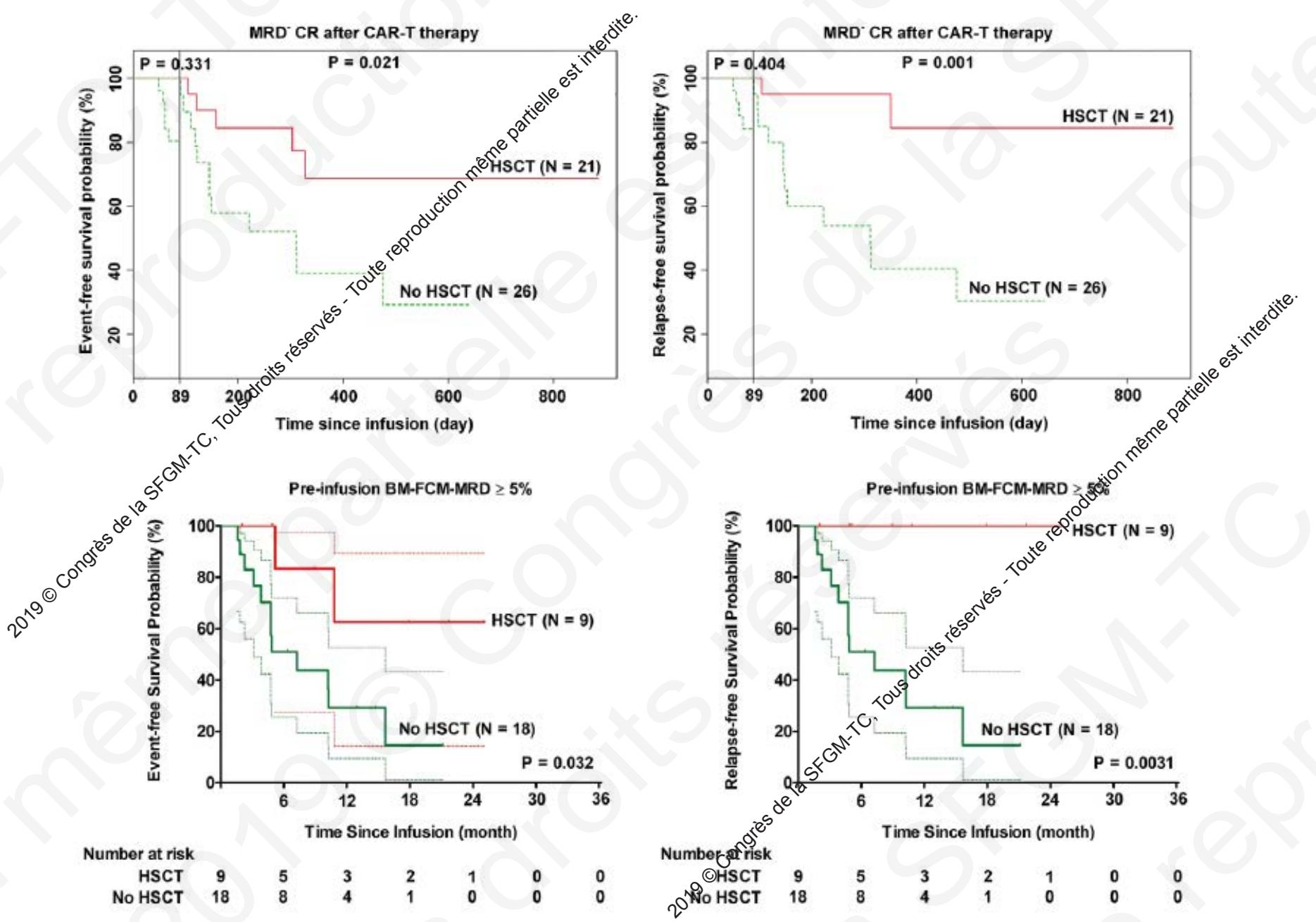
Wei Xiong² | Jian Dong² | Heng Mei^{1,2*}  | Yu Hu^{1,2*} 

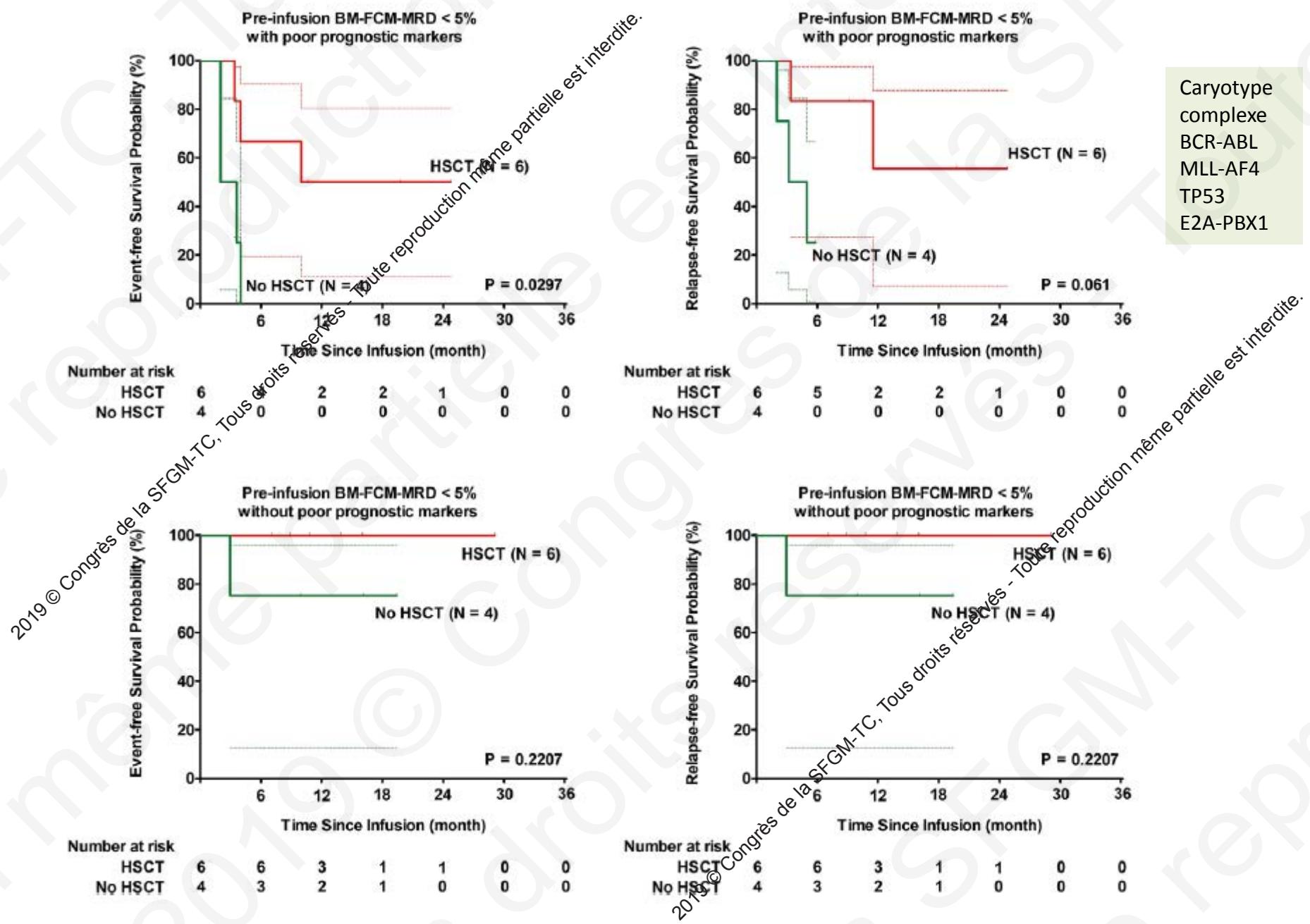




B)

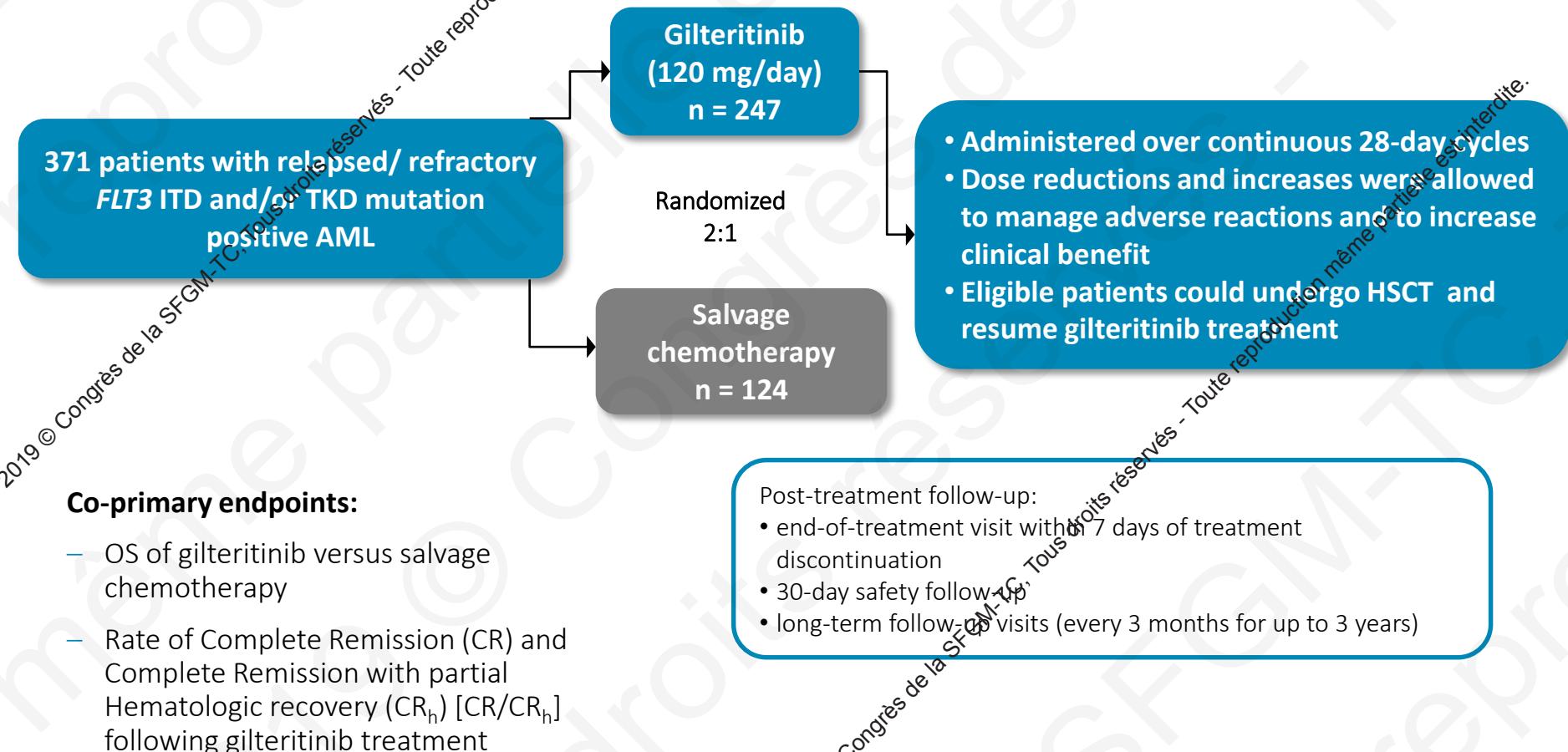






ADMIRAL: Study Design

Phase 3, open-label, multicenter, randomized study of gilteritinib versus salvage chemotherapy in patients with relapsed/refractory AML with *FLT3* mutation

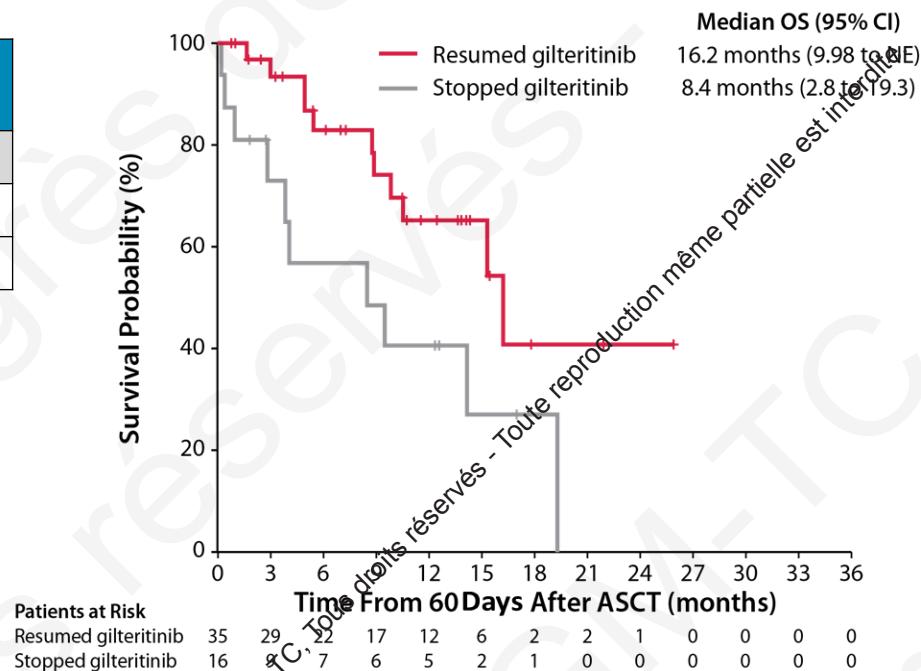


ADMIRAL - Efficacy Results: HSCT

Response Parameter*	Gilteritinib (n = 247)	Salvage Chemotherapy (n = 124)
CR, n (%)	52 (21%)	13 (11%)
CR/CR _h , n (%)	84 (34%)	19 (15%)
Allogeneic HSCT, n (%)	63 (26%)	19 (15%)

HSCT, Haematopoietic Stem Cell Transplantation; ASCT, Allogeneic Stem Cell Transplantation

Non-Randomised Landmark Analysis from Day 60 Post-HSCT of Survival in the Gilteritinib Arm^{1,11}
(NOT STATISTICALLY SIGNIFICANT)



A median OS of 16.2 months for patients who resumed Gilteritinib versus 8.4 months for those who did not resume. The magnitude of the signal from this analysis suggest the patients who resumed Gilteritinib post-HSCT may benefit versus those who did not resume.

MERCI POUR VOTRE ATTENTION !

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