



GRUPPO DI LAVORO COMMISSIONE GITMO – MUD: Secondi Trapianti Allogenici

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IRCCS Ospedale San Raffaele, Milano - UTMO*

2nd allo da UD? → PASSAGGIO DALLA COMMISSIONE ALLOGENICO

A large red circle highlights the first form on the left.

<p>Italian Bone Marrow Donor Registry Form CT309 (V 6.2/4 agosto 2021)</p> <p></p> <p>Richiesta di ulteriore donazione (post-trapianto)</p> <p>INFORMAZIONI RELATIVE AL I TRAPIANTO:</p> <p>Numero di trapianti precedenti: Data dell'ultimo trapianto: Manipolazione (es : deplezione cellule T, rimozione plasma etc.)</p> <p>Sorgente di CSE utilizzata per il precedente trapianto: <input type="checkbox"/> Sangue Midollare <input type="checkbox"/> PBSC <input type="checkbox"/> Cord Blood</p> <p>Dose cellulare infusa al paziente: Midollo x 10⁸ / kg (MNC) PBSC x 10⁶ / kg (CD34+)</p> <p>Regime di condizionamento: Melphalan <input type="checkbox"/> Intensità ridotta <input type="checkbox"/></p> <p>STATO CLINICO ATTUALE DEL PAZIENTE:</p> <p>Valutazione clinica: (principali dettagli)</p> <p>Attuale terapia:</p> <p>Se il paziente assume terapia immunosoppressiva, specificare:</p> <p>Data inizio del tapering: .. Data prevista sospensione: ..</p> <p>Precisare se il paziente è in terapia intensiva (specificare, es: ventilazione, dialisi etc.):</p> <p>STATO CLINICO ATTUALE DEL PAZIENTE (TEST DI LABORATORIO):</p> <p>Inserire i valori solo se al di fuori della norma</p> <p>[Large blacked-out area representing laboratory test results]</p>	<p>Italian Bone Marrow Donor Registry Form CT309 (V 6.2/4 agosto 2021)</p> <p></p> <p>Richiesta di ulteriore donazione (post-trapianto)</p> <p>INFORMAZIONI RELATIVE AL NUOVO TRAPIANTO DI CSE PROGRAMMATO:</p> <p>Trattamento previsto al paziente (specificare date):</p> <p>E' prevista manipolazione?: <input type="checkbox"/> SI <input type="checkbox"/> NO Se sì, descrivere brevemente la manipolazione prevista:</p> <p>Profilassi per la GVHD:</p> <p>E' disponibile un back-up autologo? <input type="checkbox"/> SI <input type="checkbox"/> NO Si dispone di un donatore familiare di back up? <input type="checkbox"/> SI <input type="checkbox"/> NO Si dispone di un donatore non familiare (adulto/SCO) di back up? <input type="checkbox"/> SI <input type="checkbox"/> NO</p> <p>Ulteriori informazioni disponibili:</p> <p>[Large blacked-out area representing future transplant information]</p>
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2nd allo da UD? → PASSAGGIO DALLA COMMISSIONE ALLOGENICO

Italian Bone Marrow Donor Registry
Form CT309-c (VI 1/4 mar. 2010)

Da compilarsi a cura del Centro Trapianti
CENTRO TRAPIANTI:

Sigla CT IBMDR:	Referente:
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GENERALITA' DEL RICEVENTE:

Codice IBMDR del ricevente:	
Data di nascita:	Peso:
Diagnosi iniziale:	Data diagnosi:
Motivazione della richiesta cambio donatore:	
Storia clinica (dati rilevanti aggiuntivi / comorbidità):	

INFORMAZIONI RELATIVE AL/AI PRECEDENTE/I TRAPIANTO/I:

Numero di precedenti trapianti:.....
Pregresso AUTO tx: <input type="checkbox"/> No <input type="checkbox"/> Si Data:..... Fase di malattia al tx:.....
Data pregresso ALLO tx:..... Fase di malattia al tx:..... HCT-t.....
Tipo donatore: <input type="checkbox"/> familiare HLA identico <input type="checkbox"/> familiare aploidentico <input type="checkbox"/> non correlato
Sorgente di CSE utilizzata per il precedente trapianto: <input type="checkbox"/> PBS <input type="checkbox"/> sangue midollare <input type="checkbox"/> Unità SCO
Manipolazione (es : deplezione cellule T, rimozione plasma etc.):.....
Dose cellulare infusa al paziente: NC..... $\times 10^6$ /kg CD34+..... $\times 10^6$ /kg
Regime di condizionamento: <input type="checkbox"/> Melosialivo <input type="checkbox"/> Intensità ridotta
Nel condizionamento è stata utilizzata la TBI? No <input type="checkbox"/> Si <input type="checkbox"/>
Profilassi utilizzata per la GvHD:.....
Livello di matching della coppia:.....

Italian Bone Marrow Donor Registry
Form CT309-c (VI 2/4 mar. 2010)

Relazione per Commissione GITMO-MUD - Il TMO da donatore diverso -

ATTACHEMENTO:
Attecchimento: No Si Data (neutrofili $>0.5 \times 10^9/L$):

COMPLICANZE CORRELATE AL TRAPIANTO NEL PAZIENTE:

GVHD:
Acuta: No Si Grado massimo: Organi coinvolti:
Trattamento:
Risolta: No Si
Cronica: No Si Grado massimo: Organi coinvolti:
Trattamento:
Risolta: No Si

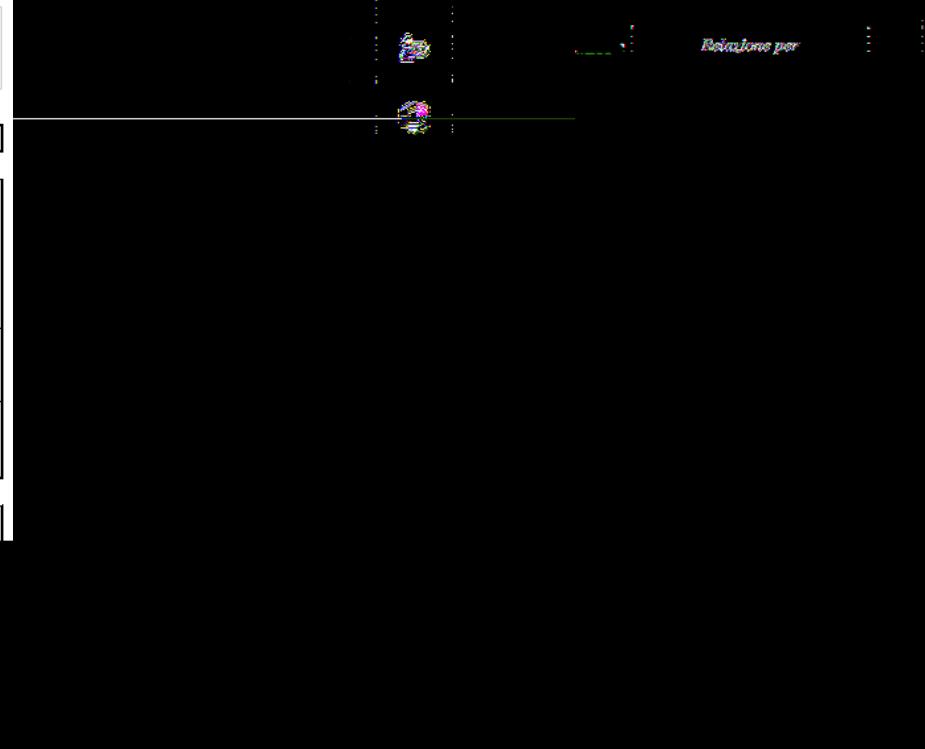
Infezioni gravi: (specificare tipo e trattamento)

Risolte: No Si

Tossicità d'organo/Altro: (specificare tipo e trattamento)

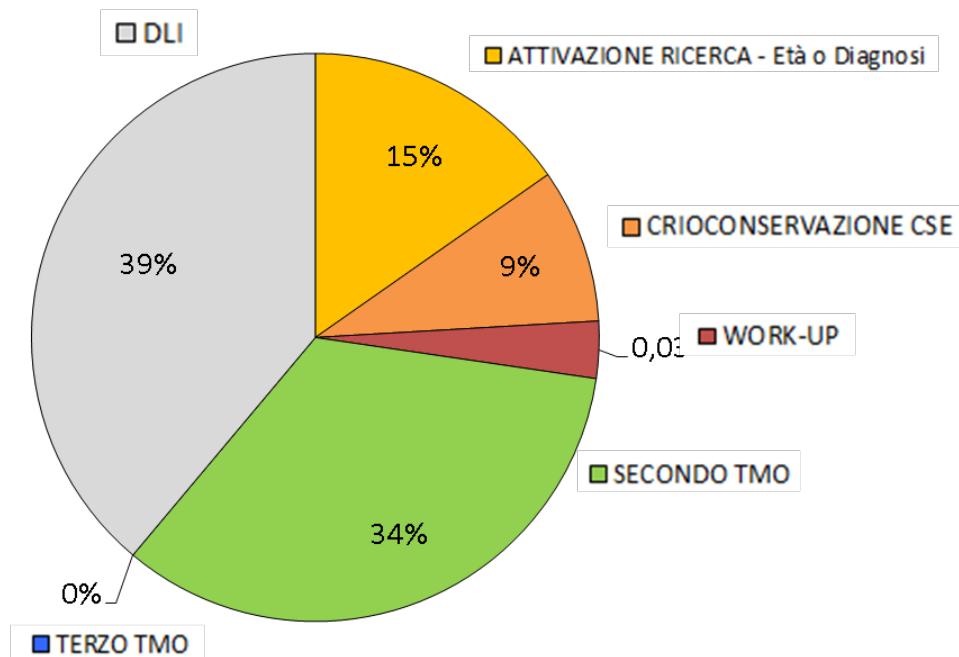
Risolte: No Si

TERAPIE EFFETTUATE DAL PREGESSO ALLO TRAPIANTO AD OGGI:
CHT: No Si Data e specifiche:.....

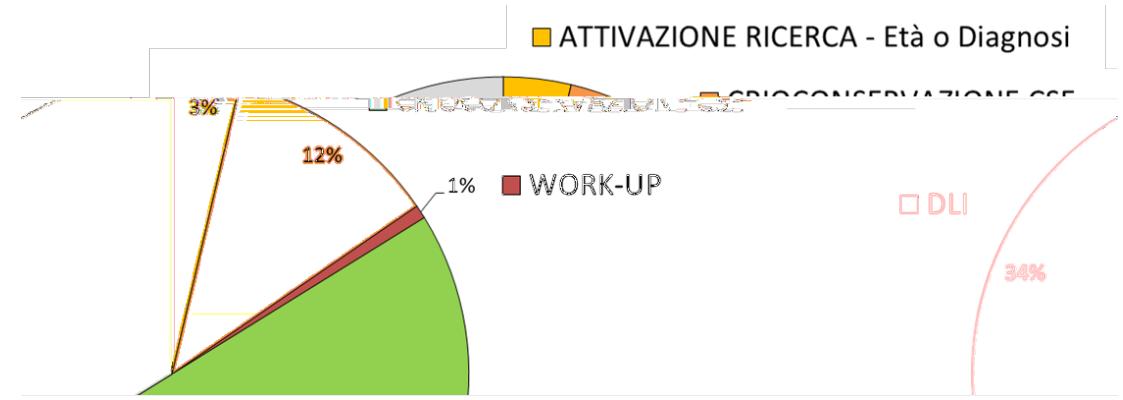


Causa di attivazione della Commissione per Pazienti italiani: differenze 2019 - 2022

2019



2022



n=136

Courtesy of IBMDR- Dr.ssa Simona Pollichieni

PERCHÈ PENSARE AL SECONDO allo-SCT?

- “Several studies have shown that relapsed **AML** postallografting is generally associated with poor outcomes with a reported median survival of ~3 months”
(Bone Marrow Transplantation (2020) 55:325–331)
- “The survival of **ALL** patients who relapse after an allo-HCT remain poor, with long-term leukaemia-free survival (LFS) <10%”
(Fielding et al, 2007; Spyridonidis et al, 2012).
- “Relapse is still a major cause of failure after alloHSCT for **lymphoma**, and in the absence of effective salvage options in this situation these patients have a poor outlook”
(Bone Marrow Transplantation (2015) 50, 790–794)

COSA VALUTIAMO QUANDO PENSIAMO A UN SECONDO allo-SCT?

- Quali pazienti candidare?
- Intensità del regime di condizionamento?
- C'è un vantaggio nel cambiare donatore?

COSA VALUTIAMO QUANDO PENSIAMO A UN SECONDO allo-SCT?

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COSA CI DICE LA LETTERATURA?

No RCT has ever been conducted comparing the efficacy of a second allo-HCT against other treatments. Available published data are mainly from observational studies (single or multi-institution) or registry data.

SECONDO allo-SCT in AML: single institution or multicenter studies

Table 1 Selected single institutions or multicenter studies evaluating a second allo-HCT in relapsed AML

- 1995-1999
 - 2000-2010, AML
 - 1979-2011, AML, MDS, MPN
 - 2002-2015, AML e ALL
 - 1980-2016, AML, ALL, AA, CML

SECONDO allo-SCT in AML: single institution or multicenter studies

Table 1 Selected single institutions or multicenter studies evaluating a second allo-HCT in relapsed AML

Authors [ref.]	Study type	N (AML)	Regimen	Donor source	Cell source	Outcomes
Wierwille et al.	Single institution	10	Busulfan + ATG	HLA-matched sibling	Peripheral blood	1995-1999
Silverman et al.	Single institution	10	Busulfan + ATG	HLA-matched sibling	Peripheral blood	2000-2010, AML Age <65y, 1st allo – Rel > 12mo,
Wierwille et al.	Single institution	10	Busulfan + ATG	HLA-matched sibling	Peripheral blood	1979-2011, AML, MDS, MPN CR e 1st allo- 2nd allo ≥ 430gg
Wierwille et al.	Single institution	10	Busulfan + ATG	HLA-matched sibling	Peripheral blood	2002-2015, AML e ALL CR, allo-allo > 6mo, cGvHD post 2nd allo
Wierwille et al.	Single institution	10	Busulfan + ATG	HLA-matched sibling	Peripheral blood	1980-2016, AML, ALL, AA, CML 1st allo – Rel/BM failure > 12mo

SECONDO allo-SCT in AML: single institution or multicenter studies

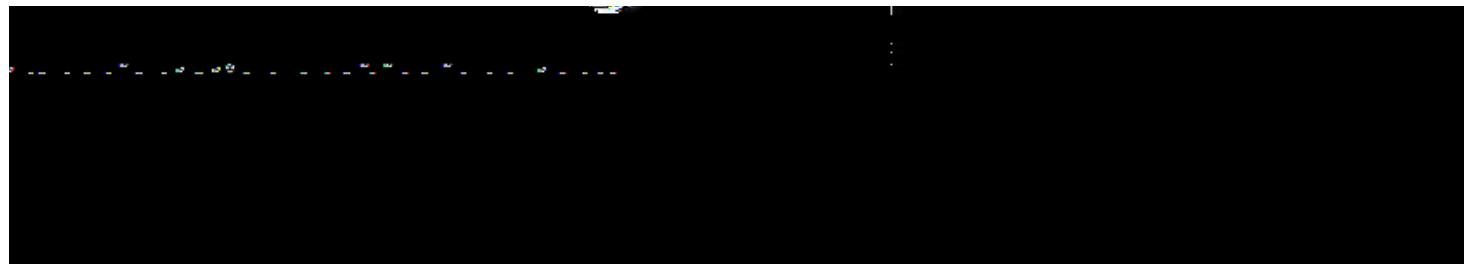
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Sawyers et al.	Single institution	10	Busulfan + ATG	HLA-matched sibling	Peripheral blood	2000-2010, AML Age <65y, 1st allo – Rel > 12mo,
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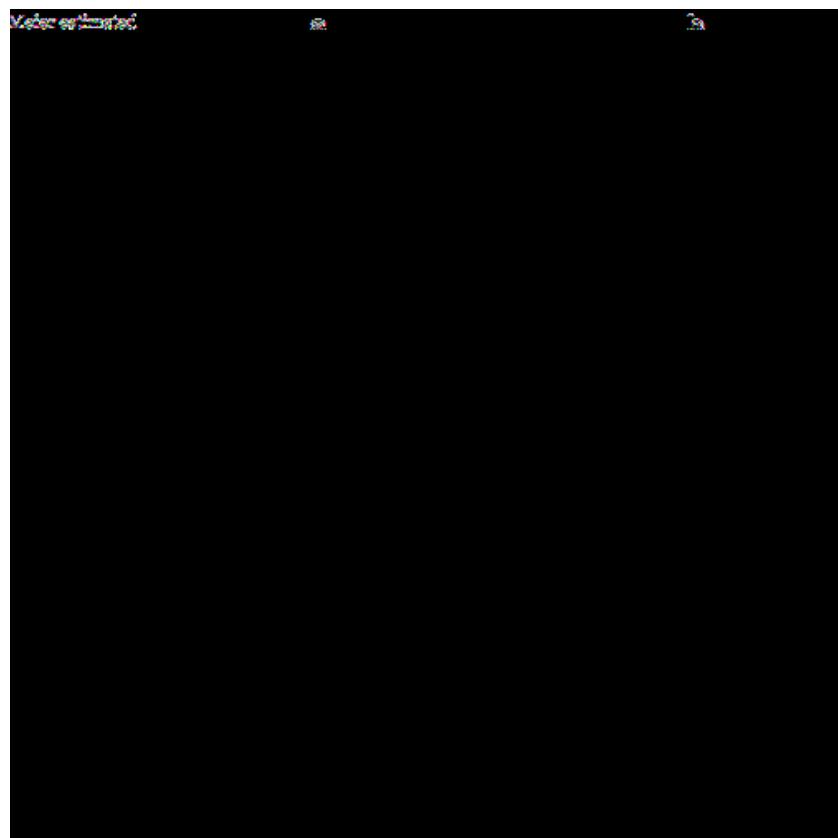
SECONDO allo-SCT in AML: single institution or multicenter studies

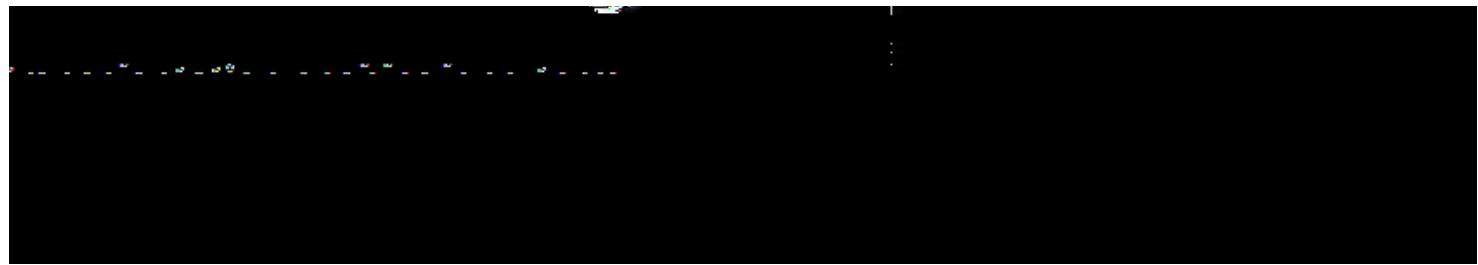
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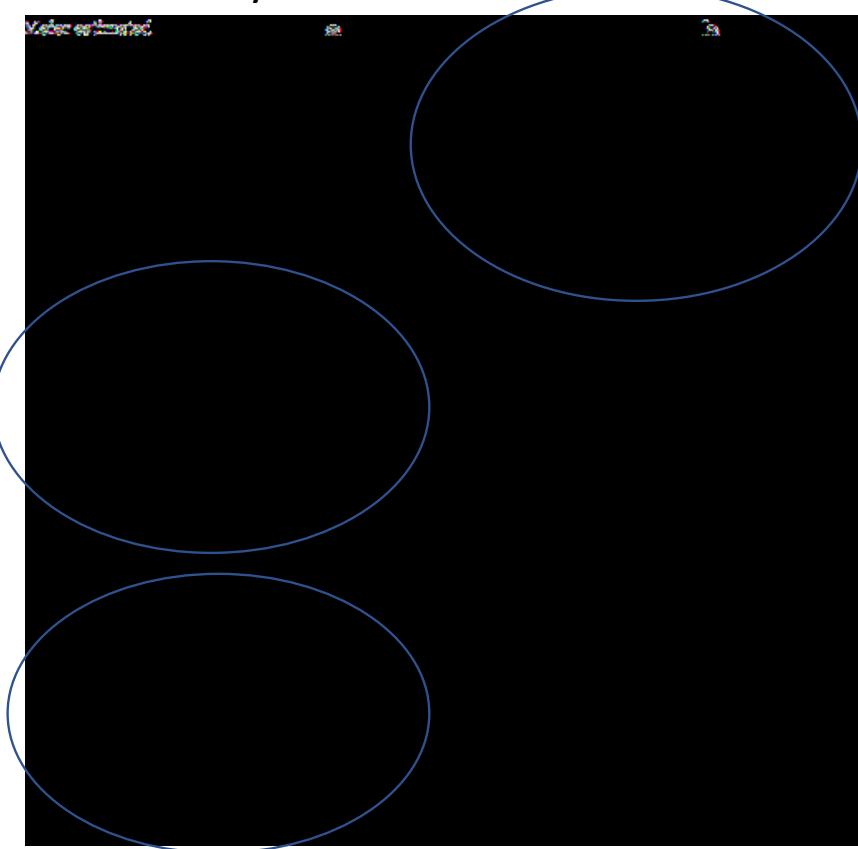


Univariate analysis for OS





Univariate analysis for OS



Factors for OS

ratio (95% CI)

Offering regimen had no impact.
Andreato and colleagues review
differences of second-line genetic BC

SECONDO allo-SCT in AML: registries studies

second allo-HCT in relapsed AML.

N (AML)	Regimen Intensity	Donor source	Cell source	Outcomes
61	Modified MAC (n=56 pts)	MUD = 139 Syngeneic = 7 MUD = 5 Mismatches = 5 (n=56 pts)	BM = 139 PBSC = 11 (n=56 pts)	AML OS = 41% DFS = 35% NRM = 51% (2-year)
CR = 28				
No CR = 33				
(n= 100)	AML = N/E			

→ 1984-1996, AML, ALL, CML

→ 1983-2000, AML

→ pub 2008, AML, MDS, MPN, ALL, CML, NHL, MPN, MM

→ 1994-2009, all diseases

→ 1990-2010, AML

→ 2015-2017, AML

SECONDO allo-SCT in AML: registries studies

Second allo-HCT in relapsed AML					
N (AML)	Regimen Intensity	Donor source	Cell source	Outcomes	
61	Match MAC CR = 28 (67 pts)	MUD = 133 Syngeneic = 7 MUD = 5 Mismatched = 5 (67 pts)	BM = 139 PBSC = 11 (67 pts)	AML	
No CR = 33 (67 pts = 100)	ALL = N/E (67 pts)			OS = 47% DFS = 35% NRM = 51% (2-year)	

- 1984-1996, AML, ALL, CML
1st allo – Rel > 12mo, age <16y, cGvHD post 2nd allo ...
- 1983-2000, AML
1st allo – Rel > 6mo, CR
- pub 2008, AML, MDS, MPN, ALL, CML, NHL, MPN, MM
No RF
- 1994-2009, all diseases
CR, 1st allo – Rel > 4mo, cGvHD post 2nd allo ...
- 1990-2010, AML
1st allo – Rel > 6mo, age < 41y
- 2015-2017, AML
1st allo – Rel > 6mo, CR

SECONDO allo-SCT in AML: registries studies

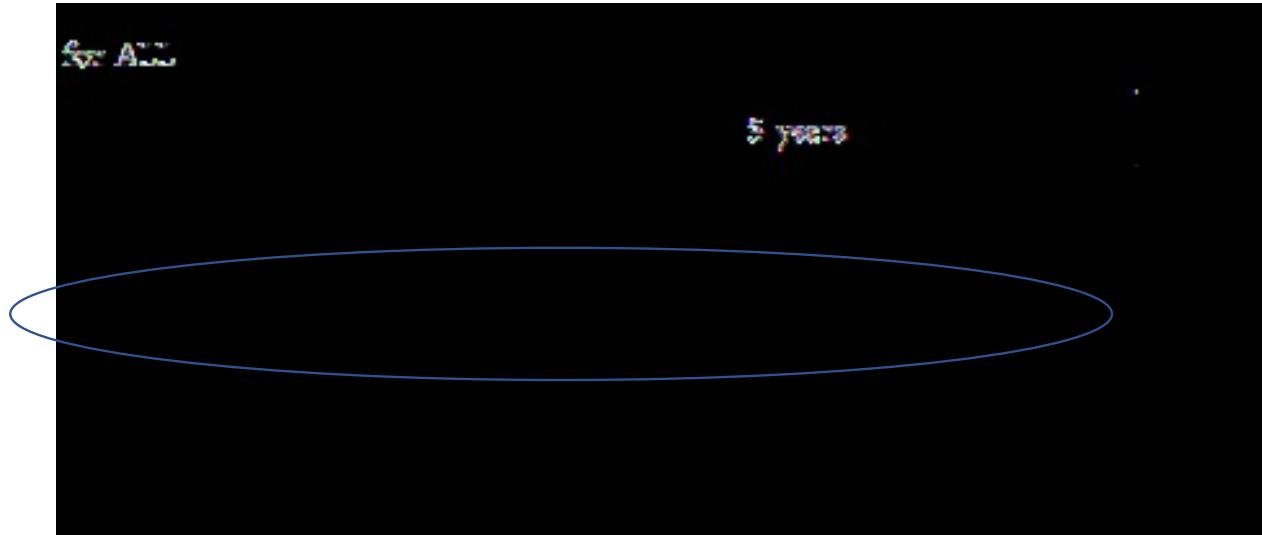
Second allo-HCT in relapsed AML					
N (AML)	Regimen Intensity	Donor source	Cell source	Outcomes	
61	Matched MAC CR = 28 (67 pts)	MUD = 139 Syngeneic = 7 MUD = 5 Mismatched = 5 (67 pts)	BM = 139 PBSC = 11 (67 pts)	AML OS = 47% DFS = 35% NRM = 51% (2-year)	
33	
(67 pts = 100)	AML = N/E (67 pts)	

—

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- 1990-2010, AML
1st allo – Rel > 6mo, age < 41y
- 2015-2017, AML
1st allo – Rel > 6mo, CR



SECONDO allo-SCT in ALL: dati EBMT, 2000-2017, 245 pts



Nagler et al. BJH, 2019: 245pz dal 2000 al 2017

SECONDO allo-SCT in ALL: dati EBMT, 2000-2017, 245 pts



Nagler et al. BJH, 2019: 245pz dal 2000 al 2017

SECONDO allo-SCT in ALL: dati EBMT, 2000-2017, 245 pts

Table III. Multivariate analysis for NRM, relapse, LFS, and OS

2y OS CR vs no CR
33 vs 23% p 0.001
in analisi univariata

Associazione tra CR e time to 2nd allo

Nagler et al. BJH, 2019: 245pz dal 2000 al 2017

Table 3 Multivariable analysis.

	OS HR (95%CI) (P-value)	LFS HR (95%CI) (P-value)	RI HR (95%CI) (P-value)	NRM HR (95% CI) (P-value)	Acute GVHD (Grade 2–4) HR (95%CI) (P-value)	Chronic GVHD (Any grade) HR (95%CI) (P-value)	GRFS HR (95% CI) (P-value)
Haploidentical vs. MUD	0.69 (0.4–1.17) (<i>p</i> = 0.17)	0.82 (0.51–1.32) (<i>p</i> = 0.41)	0.74 (0.41–1.34) (<i>p</i> = 0.32)	0.98 (0.45–2.14) (<i>p</i> = 0.96)	1.23 (0.57–2.67) (<i>p</i> = 0.60)	0.77 (0.35–1.69) (<i>p</i> = 0.52)	0.77 (0.49–1.21) (<i>p</i> = 0.25)
Active disease vs. CR2/ CR3+ (n = 18)	1.40 (0.86–2.29) (<i>p</i> < 0.18)	1.18 (0.75–1.85) (<i>p</i> > 0.48)	1.45 (0.83–2.55) (<i>p</i> > 0.10)	0.82 (0.37–1.82) (<i>p</i> = 0.26)	1.4 (0.68–2.88) (<i>p</i> > 0.20)	1.68 (0.77–3.67) (<i>p</i> > 0.10)	1.20 (0.78–1.84) (<i>p</i> = 0.42)
1.21 (0.81–1.61) (<i>p</i> = 0.18)	1.13 (0.96–1.35) (<i>p</i> = 0.13)	—	—	—	—	—	—
1.14 (0.44–2.94) (<i>p</i> = 0.79)	1.05 (0.65–1.65) (<i>p</i> = 0.85)	—	—	—	—	—	—
1.45 (0.77–2.75) (<i>p</i> < 0.18)	1.05 (0.72–1.55) (<i>p</i> > 0.48)	—	—	—	—	—	—

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Active disease vs. CR2/ CR3+ relapse	1.40 (0.86–2.29) (<i>p</i> < 0.18)	1.18 (0.75–1.85) (<i>p</i> < 0.48)	1.45 (0.83–2.55) (<i>p</i> < 0.10)	0.82 (0.37–1.82) (<i>p</i> = 0.26)	1.4 (0.68–2.88) (<i>p</i> < 0.20)	1.68 (0.77–3.67) (<i>p</i> < 0.10)	1.20 (0.78–1.84) (<i>p</i> = 0.42)
1st relapse	1.21 (0.81–1.61) (<i>p</i> = 0.18)	1.13 (0.96–1.35) (<i>p</i> = 0.13)	1.14 (0.74–2.94) (<i>p</i> = 0.79)	1.05 (0.65–1.65) (<i>p</i> = 0.85)	1.45 (0.77–2.75) (<i>p</i> < 0.18)	1.05 (0.72–1.55) (<i>p</i> < 0.18)	1.22 (0.82–1.62) (<i>p</i> = 0.18)
2nd relapse	1.21 (0.81–1.61) (<i>p</i> = 0.18)	1.13 (0.96–1.35) (<i>p</i> = 0.13)	1.14 (0.74–2.94) (<i>p</i> = 0.79)	1.05 (0.65–1.65) (<i>p</i> = 0.85)	1.45 (0.77–2.75) (<i>p</i> < 0.18)	1.05 (0.72–1.55) (<i>p</i> < 0.18)	1.22 (0.82–1.62) (<i>p</i> = 0.18)
3rd relapse	1.21 (0.81–1.61) (<i>p</i> = 0.18)	1.13 (0.96–1.35) (<i>p</i> = 0.13)	1.14 (0.74–2.94) (<i>p</i> = 0.79)	1.05 (0.65–1.65) (<i>p</i> = 0.85)	1.45 (0.77–2.75) (<i>p</i> < 0.18)	1.05 (0.72–1.55) (<i>p</i> < 0.18)	1.22 (0.82–1.62) (<i>p</i> = 0.18)
≥ 4th relapse	1.21 (0.81–1.61) (<i>p</i> = 0.18)	1.13 (0.96–1.35) (<i>p</i> = 0.13)	1.14 (0.74–2.94) (<i>p</i> = 0.79)	1.05 (0.65–1.65) (<i>p</i> = 0.85)	1.45 (0.77–2.75) (<i>p</i> < 0.18)	1.05 (0.72–1.55) (<i>p</i> < 0.18)	1.22 (0.82–1.62) (<i>p</i> = 0.18)

We identified a ≤ 6 months cutoff, from first allo-HCT to relapse, as the threshold to define high risk patients undergoing a second allo-HCT

1-year LFS 5% vs. 49%, *p* = 0.001

1-year OS 17% vs. 64%, *p* = 0.001

2-year OS 7% vs. 50%, *p* = 0.001

Second allo-SCT in patients with lymphoma relapse after a first allogeneic transplantation. A retrospective study of the EBMT Lymphoma Working Party

K Korstmann, A Boumendil, J Finke, H Finel, E Kanfer, G Milone, N Russell, A Bacigalupo, Y Chalandon, JL Diez-Martin, N Ifrah, M Jurado Chacon and P Dreger

Table 2. Multivariate Cox proportional hazard model of PFS and OS

Endpoint	Variable	Hazard ratio	Lower CL	Upper CL	P-value
PFS	Interval alloHSCT_1 to alloHSCT_2 > 12 months	0.63	0.41	0.97	0.034
	Disease status refractory or unknown at alloHSCT_2	1.60	1.04	2.45	0.033
	Unrelated donor	1.17	0.765	1.81	0.48
OS	Interval alloHSCT_1 to alloHSCT_2 > 12 months	0.54	0.35	0.84	0.0065
	Disease status refractory or unknown at alloHSCT_2	1.51	0.98	2.22	0.064



2nd allo-SCT: line guida della SFGM

[Second allogeneic hematopoietic stem cell transplant: Guidelines from the francophone Society of bone marrow transplantation and cellular therapy (SFGM-TC)]

Disease recurrence and graft dysfunction after allogeneic hematopoietic stem cell transplantation (allo-HSCT) currently remain among the major causes of treatment failure in malignant and non-malignant hematological diseases. A second allo-HSCT is a valuable therapeutic option to salvage those situations. During the 8th annual harmonization workshops of the french Society of bone marrow transplantation and cellular therapy (SFGM-TC), a designated working group reviewed the literature in order to elaborate unified guidelines on feasibility, indications, donor choice and

conditioning in the case of a second allo-HSCT. In case of relapse, a second allo-HSCT with reduced intensity or non-myeloablative conditioning is a reasonable option, particularly in patients with a

good performance status (Karnofsky 40-80%), low comorbidity score (EBMT score < 2), and who

reached an CR after the first allo-HSCT (> 6 months), and who

had a suitable sibling donor available.



1st allo – Rel > 6 mo

Low disease burden at 2nd allo-SCT

PS > 80%

EBMT score ≤ 3

COSA VALUTIAMO QUANDO PENSIAMO A UN SECONDO allo-SCT?

- Quali pazienti candidare?
 - Tempo 1st allo-SCT – Recidiva > 6 mesi
 - Leucemie acute in remissione, Linfomi non in progressione
 - Pazienti con PS > 80%
- Intensità del regime di condizionamento?
- C'è un vantaggio nel cambiare donatore?

COSA VALUTIAMO QUANDO PENSIAMO A UN SECONDO allo-SCT?

- Quali pazienti candidare?
- Intensità del regime di condizionamento?
- C'è un vantaggio nel cambiare donatore?

C'è UN VANTAGGIO UTILIZZANDO UN NUOVO DONATORE?

- No benefit in changing (*Bone Marrow Transplantation* (2020) 55:325–331)
- No improvement but not detrimental (*J Clin Oncol.* 2013 Sep 10;31(26):3259-71)
- Same donor increase aGvHD 2-4, a different donor is associated with better GRFS e NRM (*BJH*, 2019: 245pz dal 2000 al 2017)
- An allograft with a new mismatched haplotype may improve outcomes after second BMTs for relapsed hematologic malignancies (*Biol Blood Marrow Transplant* 23 (2017) 1887–1894)

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- Incidence of HLA Loss in a Global Multicentric Cohort of Post-Transplantation Relapses:
Results from the HlaLoss Collaborative Study (*Blood*, Volume 132, Supplement 1, 29 November 2018, Page 818)

C'è UN VANTAGGIO UTILIZZANDO UN NUOVO DONATORE?

- No benefit in changing (*Bone Marrow Transplantation* (2020) 55:325–331)
- No improvement but not detrimental (*J Clin Oncol.* 2013 Sep 10;31(26):3259-71)
- Same donor increase aGVHD 2-4, a different donor is associated with better GRFS e NRM (*BJH*, 2019: 245pz dal 2000 al 2017)
- An allograft with a new mismatched haplotype may improve outcomes after second BMTs for relapsed hematologic malignancies

(*Biol Blood Marrow Transplant* 23 (2017) 1887–1894)

- **Incidence of HLA Loss in a Global Multicentric Cohort of Post-Transplantation Relapses:**

Results from the HlaLoss Collaborative Study (Blood, Volume 132, Supplement 1, 29 November 2018, Page 818)

In total, we detected 51 HLA loss post-transplantation relapses out of the 396 cases analyzed (12.8%).

35 occurred after haploidentical HSCT (22.6% of relapses in this setting)

12 after MMUD HSCT (11.9%),

4 after 10/10 MUD HSCT (4.3%)

none after UCB HSCT

LE NOSTRE PROPOSTE

- Riattivazione diretta della ricerca MUD se recidiva avvenuta > 6 mesi dal 1st allo-SCT
- Richiesta diretta del WU se ottenimento di RC o malattia chemiosensibile (linfomi) al momento del Work-up
- Karnofsky > 80% al momento del WU (?)



Se tali criteri non sono rispettati resta necessario il passaggio dalla
Commissione allogenico

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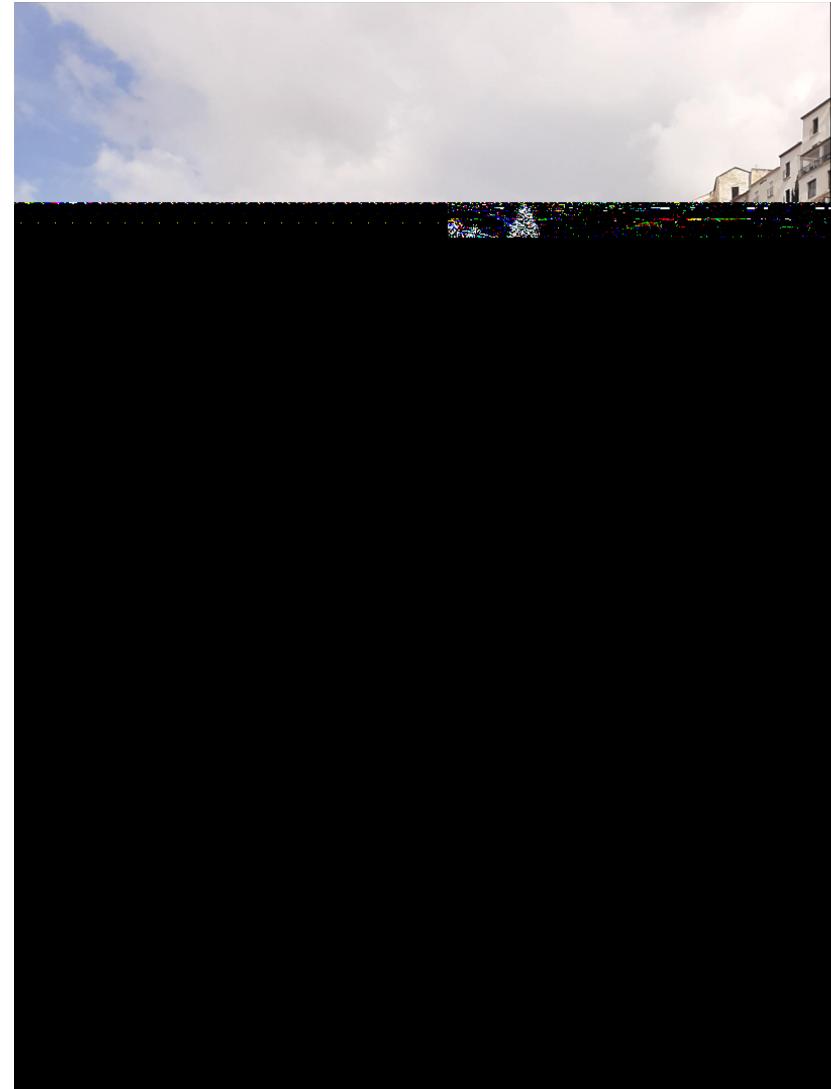
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... voi tutti per l' attenzione!