

Introduction

While intensive chemotherapy and allogeneic hematopoietic transplant are still a standard of care needed for aggressive malignancies, hematologic it requires prolonged hospitalization in a protected area with restrictive measures on daily basis.

Both social interaction and body care are heavily compromised with limitation of visits and personal effects, specific nutrition, intense fatigue, alopecia, digestive disorders ...

In addition, the announcement of the disease and the Control TOTAL Number patients 62 32 36 (57,1%) 20 (60,6%) Women 13 (39,3%) 27 (42,8%) Men Allograft 15 (46,9%) 30 (48,3%) Acute Leukemia 17 (53 1%) 32 (51 7%)

uncertainty of potential complications in a life-threatening disease led to a very comprehensible anxiety. Various supportive cares have been implemented to improve patient well-being. This randomized prospective study aims to evaluate the impact of aesthetic care on quality of life and anxiety of patient hospitalized for acute leukemia induction therapy or allogeneic transplant.



Seventy patients were randomized in two groups with or receiving 3 aesthetic sessions for 3 weeks.

Both groups could benefit from other supportive care such psychologist, art therapy or sport coaching session. Spielberg anxiety test, quality of life (Fact-leu) and WHO-5 were evaluated upon arrival, in deep aplasia and end of hospitalization.

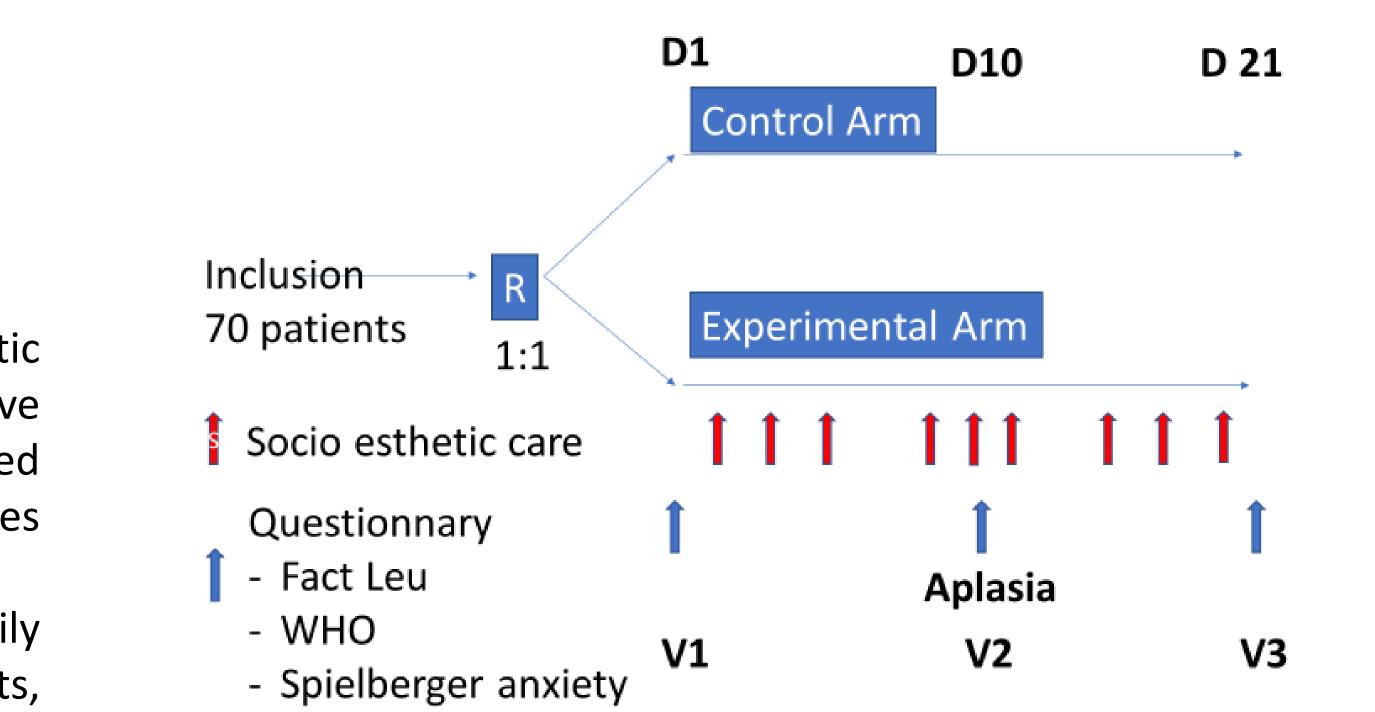
Number of externals visits, use of anxiolytic, hypnotic a analgesics treatments were also analyzed.

The primary end point was the change in the Spielberger anxiety test in deep aplasia compared to the one upon Table 2: Consumption of antalgic and anxiolytic and hypnotic. (IV intra veinous, PO per os). admission. Secondary end point included change in the Spielberger at the end, change in the FAC-Leukemia score and OMS score in deep aplasia or at the end compared to the score upon arrival.

All statistical analysis were done independently by the statistics department of Lille university Hospital (SEED), using non parametric covariance analysis. Sensibility analysis was done additionally for the primary end point, using hypnotic drug as covariable.

IMPACT OF AESTHETIC CARE ON PATIENTS COPING WITH PROLONGED HOSPITALIZATION IN THE HAEMATOLOGY PROTECTED DEPARTMENT

Perraudin, F¹, Goursaud L¹, Coiteux V¹, Legrand C¹, Ainaoui M¹, Grit I¹, Cailliau E¹, Kemkem A¹, Berthon C^{1, 2} 1 Division of Hematology, Hôpital Claude Huriez, Lille, France 2 Univ. Lille, CNRS, Inserm, CHU Lille, UMR9020-U1277 - Canther - Cancer Heterogeneity, Plasticity and Resistance to Therapies, F-59000 Lille, France



	52 (51,770)	1 7 (33,170)
Median age (year)	54,47 (18,5 -68,95)	54,08 (19,57 - 68,95)

Table 1: Characteristic of patients

		TOTAL	Control	Aesthetic care
ie	Anxiolytic IV	7 (11,1%)	1 (3%)	6 (20%)
	Anxiolytic PO	26 (41,2%)	15 (45 <i>,</i> 4%)	11 (36,7%)
S	Hypnotic	18 (28,6%)	14 (42,4%)	4 (13,3%)
r	Antalgic Level 1 IV	26 (41,2%)	11 (33,3%)	15 (50%)
d	PO	17 (27%)	8 (24,2%)	9 (30%)
1	Level 2 IV	38 (60,3%)	23 (69,7%)	15 (50%)
1	PO	20 '31,7%)	11 (33,3%)	9 (30%)
	Level 3 IV	19 (30,1%)	10 (30,3%)	9 (30%)
	PO	1 (1,59%)	1 (3%)	0

		TOTAL	Control	Aesthetic care
Nutritionist		50 (79,3%)	29 (87,9%)	21 (70%)
Psychologist		33 (52,3%)	16 (48,5%)	17 (56,7%)
Art Therapy		3 (4,8%)	2 (6%)	1 (3,3%)
Sport coaching		13 (20,6%)	7 (21,2%)	6 (18,2%)
Familly visit 0		2 (3,2%)	0	2 (6,7%)
	1	20 (31,7%)	12 (36,3%)	8 (26,7%)
	2	41 (65,1%)	21 (63,6 %)	20 (66,7%)

Table 3 : Other supportive care acces. (Familly visit 0 : zero visit/week, visit 1 : only 1 or 2 days/week, visit 3 : every day)

Aesthetic care		
30		
16 (53 <i>,</i> 3%)		
14 (46,7%)		
15 (50%)		
15 (50%)		
54,62 (18,5 - 68,5)		

Results

The average age of our cohort is 50.9 years (18.5 – 69 years) with a majority of women (57.1%) (Table1).

The two groups are comparable apart from the consumption of hypnotics, less important in the aesthetic care arm (13.3% vs 42.4 % (Table 2)). The two groups are comparable apart from access to other supportive care (Table 3).

The assessment of anxiety is similar in both arms (p=0.93), with a non significant improvement in deep aplasia for the acute leukemia induction group (p=0,15) (Table 4).

Quality of life is also similar (p=0,4) (Table 4), however all patients in the aesthetic care arm have a significantly higher WHO-5 in deep aplasia (p=0.008) (Table 4).

	Control (n=32)	Aesthetic care (n=30)	Standard Différence (IC to 95%)	P-Value
Spielberger Anxiety Test				
V1	47 (34 to 59)	40 (26 to 49)		
V2	46 (34 to 55)	38,5 (27 to 49)		
V2-V1	2 (-8 to 1)	3 (-8 to 2)	0,00 (- 0,48 to 0,46)	0,93
Sous-Groupe AL	n= 16	n= 15		
v1	47 (36 to 64)	33 (26 to 55)		
v2	54 (39 to 65)	36 (23 to 48)		
v2-v1	1 (-7 to 8)	4 (-9 to 1)	0,51 (-1,2 to 0,18)	0,15
FACT-Leukemia score				
v1	76 (69 to 86)	78 (65 to 85)		
v2	75 (68 to 82)	73 (66 to 85)		
v2-v1	0,7 (-10 to 5,5)	0,0 (-10 to 11,3)	0,2 (-0,27 to 0,66)) 0,37
WHO				
v1	16 (9 to 19)	14 (10 to 20)		
v2	8 (5 to 14)	12 (9 to 19)		
v2-v1	3 (-8 to 0)	1 (-5 to 2)	0,61 (0,15 to 1,08)	0,008

Table 4 : Analysis of questionnary (Fact Leu, OMS, Spielberger anxiety).



In conclusion, aesthetic care seems to improve anxiety upon diagnosis announcement and significantly improve the wellbeing of all patients during prolonged aplasia.

Inserm

le la santé et de la recherche médica

Conclusion