

TRATTAMENTO DEL PAZIENTE ANZIANO AFFETTO DA GLIOBLASTOMA:

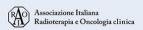
CONFRONTO DEGLI OUTCOME TRA OVER 70ANNI E OVER 65ANNI

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Radioterapia di precisione per un'oncologia innovativa e sostenibile

Background

Standard of care for elderly, newly-diagnosed GBM: surgical resection followed by hypofractionated RT with concomitant and adjuvant TMZ.

To date, the literature lacks of consistence in the definition of "**ELDERLY**": older than 65 years? or 70 years? Aim: explore whether differences exist between these two cohorts, comparing outcomes through propensity score matched analysis (PSM).

221 elderly newly diagnosed GBM patients dichotomized in two groups: 65–69 years and over 70 years.

		65-69 years		≥70 years	
		No	%	No	%
	Patients Gender	91	100	130	100
	Female	33	36.2	56	43.1
	Male	58	63.4	74	56.9
	Age (years) Median (range)	66 (6	5-69)	75 (7	0-84)
	PS (ECOG)				
	0	29	31.9	28	21.5
	1	39	42.9	74	57.0
	2	23	25.2	28	21.5
	CIRS severity score				
	0	19	20.9	23	17.7
	1	11	12.1	13	10.0
	2	51	56.0	81	62.3
	3	10	11.0	13	10.0
	Location				
	Eloquent area	11	12.1	10	7.7
	Near eloquent area	66	72.5	96	73.8
	Not eloquent area	14	15.4	24	18.5
	EOR				
	Gross Total Resection (GTR)	39	42.9	52	40.0
	Near Total Resection/Subtotal Resection (NTR/STR)	14	15.3	11	8.5
	Partial Resection (PR)	19	20.9	30	23.0
	Biopsy (B)	19	20.9	37	28.5
	MGMT status				
	Methylated	39	42.9	45	34.6
	Unmethylated	38	41.8	36	27.7
	Unknown	14	15.3	49	37.7
	RT schedule				
	60 Gy/30 frs	91	100	0	0
	40.5 Gy/15 frs	0	0	130	100
	Discontinuation of RT Adjuvant treatments	7	7.7	6	4.6
_	RT only	20	22.0	51	39.2
	RT+concurrent and adjuvant TMZCHT	67	73.6	69	53.1
	P.T. adjugant TMZCHT	4	4.4	10	7.7

Patients, Tumor, treatment characteristics

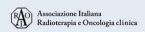
Methods

All pts received surgery followed by RT with concurrent and adjuvant TMZ.

RT dose:
60Gy in 30 fractions for pts 65–69-year-old,
40.5Gy in 15 fractions for ≥70-year-old.

	Before PSM							After PSM						
				No patients (%) 65-69 years		No patients (%) ≥70 years	p value	No all pts (%)		No patients (70) 65-69 years		No patients (%) ≥70years		p value
N. patients	221	100	91	41.2	130	58.8		172	100	86	50.0	86	50.0	
ECOG PS														
0	57	25.8	29	31.9	28	21.5	0.100	50	29.1	29	33.7	21	24.4	0.224
1	113	51.1	39	42.9	74	57.0		81	47.1	35	40.7	46	53.5	
2	51	23.1	23	25.2	28	21.5		41	23.8	22	25.6	19	22.1	
EOR														
GTR	91	41.2	39	42.9	52	40.0	0.295	74	43.0	35	40.7	39	45.3	0.352
NTR/STR	25	11.3	14	15.3	11	8.5		21	12.2	14	16.3	7	8.1	
PR	49	22.2	19	20.9	30	23.0		41	23.8	18	20.9	23	26.7	
В	56	25.3	19	20.9	37	28.5		36	21.0	19	22.1	17	19.9	
MGMT													-	
Unmethylated	74	33.5	38	41.8	36	27.7	0.001	65	37.8	33	38.4	32	37.2	0.728
Methylated	84	38.0	39	42.9	45	34.6	_	75	43.6	39	45.3	36	41.9	
Unknown	63	28.5	14	15.3	49	37.7		32	18.6	14	16.3	18	20.9	
CIRS severity														
0	42	19.0	19	20.9	23	17.7	0.825	34	19.8	18	20.9	16	18.6	0.490
1	24	10.9	11	12.1	13	10		16	9.3	10	11.6	6	7.0	
2	132	59.7	51	56.0	81	62.3		105	61.0	48	55.9	57	66.3	
3	23	10.4	10	11.0	13	10		17	9.9	10	11.6	7	8.1	
Adjuvant														
treatments														1
RT only	71	32.2	20	22.0	51	39.2	0.008	51	29.7	20	23.3	31	36.0	0.152
RT+concurrent	136	61.5	67	73.6	69	53.1		112	65.1	62	72.1	50	58.2	
and adjuvant TMZCHT														
RT+adjuvant TMZCHT	14	6.3	4	4.4	10	7.7		9	5.2	4	4.6	5	5.8	

After PSM 1:1 matching 86 pts in each group; covariates adequately balanced in the matched data set







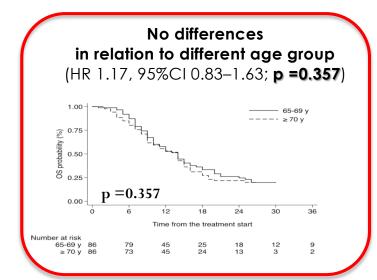


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Results

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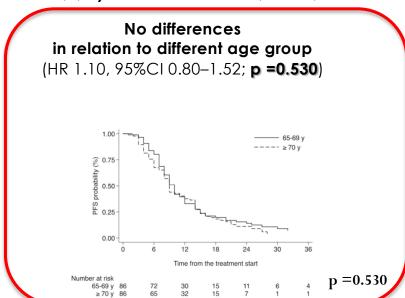
For the whole cohort
MEDIAN **OS** time **14 months** (CI95%: 11-15 months) **1**,2,3-year **OS** rates **52.8%**, 23%, 11.8%



lts

PFS

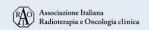
For the whole cohort median PFS time 9 months (CI95%: 9-10 months) 1,2,3-year PFS rates 35.2%, 12.5%, 5.3%



Conclusions

PSM analyses showed a similar outcome in 65–69-year old pts compared to older ones notwithstanding a more burdensome RT schedule.

Hypofractionated RT treatment should be considered also in this group of younger elderly GBM pts.









GRAZIE

