

GEINO-13

Phase II pilot, open, multicenter and prospective clinical trial to evaluate the safety and efficacy of Palbociclib (PD0332991), an inhibitor of cyclin-dependent kinases 4 and 6 (CDK4 and CDK6), in patients with recurrent Oligodendroglioma with preservation of the activity of the RB protein

**FINAL STATISTICAL REPORT
TABLES, LISTS AND FIGURES**



MFAR
CLINICAL
RESEARCH



GEINO

GRUPO ESPAÑOL DE
INVESTIGACIÓN EN
NEUROONCOLOGÍA

xxth of xxxxxxxx de xxxx (version xx)

SPONSOR

STUDY CHIEF INVESTIGATOR

MONITORING ORGANISATION (CRO)

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1. RESULTS (TABLES, LISTS AND FIGURES)

The database of the study was closed on the 10-10-2019.

1.1. STUDY POPULATION

1.1.1. SCREENED PATIENTS

A total of xx patients were screened and eventually xx patients fulfilled all the inclusion and exclusion criteria.

Table 1. Screened patients

		N	%
Hospital	Name		
	Total		
Fulfills every inclusion and none of the exclusion criteria	Patient fulfils all the inclusion criteria and none of exclusion according to the protocol		
	Patient does not fulfil the eligibility criteria		
	Total		

xx patients were considered evaluable for the study and the reason for non-evaluability was screening failure in all the cases.

Table 2. Evaluable patients

		N	%
Evaluable patients	No		
	Yes		
	Total		
Non evaluable reason	Screening failure		
	Total		

Table 3. Patients included and excluded from each hospital

Hospital	Name	Evaluable patients					
		No		Yes		Total	
		N	%	N	%	N	%
						

Those patients excluded from the analysis are listed in the following table.

Table 4. List of patients excluded from the analysis

Patient number	Hospital	Non evaluable reason	Fulfils every inclusion and none of the exclusion criteria
1			
2			
3			
4			
..			

DEMOGRAPHIC AND CLINICAL BASELINE CHARACTERISTICS

The median of the age was xx years and xx % were males.

Table 5. Age

	N	Mean	SD	Median	Min	Max
Age in years (at informed consent signature)						

Table 6. Gender and race

	N	%
Gender	Men	
	Female	
	Total	
Race	White	
	Hispanic	
	Total	

1.1.2. CLINICAL BASELINE CHARACTERISTICS**Table 7. Clinical data**

	N	%
Performance Status (PS)	0	
	1	
	2	
Total		

	N	Mean	SD	Median	Min	Max
Systolic blood pressure						
Diastolic blood pressure						
Weight						
Height						

Table 8. Analytical data

	N	Mean	SD	Median	Min	Max
Haemoglobin (g/dl)						
Platelets (x 10e9/L)						
Leukocytes (x 10e9/L)						
Neutrophils (x 10e9/L)						
Lymphocytes (x 10e9/L)						

Table 9. Biochemistry data

	N	Mean	SD	Median	Min	Max
Sodium (mmol/L)						
Potassium (mmol/L)						
Calcium (mg/dL)						
Magnesium (mg/dL)						
Glucose (mg/dL)						
Creatinine (mg/dL)						
AST (U/L)						
ALT (U/L)						
Total bilirubin (mg/dL)						
GGT (U/L)						
Alkaline Phosphatase (U/L)						
Albumin (g/dL)						
LDH (U/L)						

Table 10. Coagulation data

	N	Mean	SD	Median	Min	Max
TP value						
TTPA value						
Fib (mg/dL)						

Table 11. Thyroid function

	N	Mean	SD	Median	Min	Max
TSH value						
T3 value						

Table 12. ECG

	N	%
Qtc	Unknown	
	<450 mseg	
	450-480 mseg	
	Total	

1.1.3. CLINICAL TUMOUR CHARACTERISTICS

In the first surgery 16 patients (47.1%) had a tumour of grade 2 while 13 (38.2%) had a grade 3 tumour.

Table 13. First surgery characteristics

	N	%
Diagnosis with grade (First surgery)	Oligoastrocytoma grade 2	
	Oligoastrocytoma grade 3	
	Oligodendroglioma grade 2	
	Oligodendroglioma grade 3	
	Oligodendroglioma grade unknown	
	Diagnosis and grade unknown	
	Total	
Grade (First surgery)	Grade 2	
	Grade 3	
	Unknown	
	Total	
Anaplasia (First surgery)	0	
	1	
	2	
	4	
	Unknown	
	Total	
High cellularity (First surgery)	No	
	Yes	
	Total	
Endothelial proliferation (First surgery)	No	
	Yes	
	Total	
Necrosis (First surgery)	No	
	Yes	
	Total	
Mitosis (First surgery)	No	
	Yes	
	Total	
Nuclear anomalies (First surgery)	No	
	Yes	
	Total	

Table 14. List of patients with diagnosis in first surgery

Patient number	Hospital	Diagnosis with grade (First surgery)	Grade (First surgery)
1			
2			
3			
4			
5			
...			

In the last surgery, every patient (100%) was diagnosed with an oligodendroglioma grade 3.

Table 15. Last surgery characteristics

	N	%
Diagnosis with grade (Last surgery)	Oligodendroglioma grade 3	
	Total	
Grade (Last surgery)	Grade 3	
	Total	
Anaplasia (Last surgery)	0	
	1	
	2	
	3	
	4	
	5	
	Total	
High cellularity (Last surgery)	No	
	Yes	
	Total	
Endothelial proliferation (Last surgery)	No	
	Yes	
	Total	
Necrosis (Last surgery)	No	
	Yes	
	Total	
Mitosis (Last surgery)	No	
	Yes	
	Total	
Nuclear anomalies (Last surgery)	No	
	Yes	
	Total	

Table 16. Deletion

	N	%
Deletion 1p	Yes	
	Total	
Deletion 19q	Yes	
	Total	

In x patients (xx%) the surgery was not completed. Biopsy was performed in x patients (xx%) and craniotomy in XX patients (xx%).

Table 17. Surgery compliance

		N	%
Surgery	No		
	Yes		
	Total		
Type of surgery	Biopsy		
	Craniotomy		
	No applicable (Surgery not done)		
	Total		
Relapse location	Bihemispheric		
	Cingulate (right)		
 (Indicate locations)		
	Total		

The baseline barthel index mean was xx and the baseline minimal test mean was xx (data was available in xx patients).

Table 18. Baseline Barthel Index and Minimal test

	N	Mean	SD	Median	Min	Max
Barthel index (baseline)						
Mini mental test (baseline)						

1.2.3. PREVIOUS PATHOLOGIES

For 9 patients (26.5%) previous pathologies were not reported. In those patients with previous pathologies, seizures were the most common (n=7, 17.6%) previous pathology.

Table 19. Previous pathologies

		N	%
Previous pathologies	No		
	Yes		
	Total		
Previous pathologies	(Indicate previous pathologies. Exemples:		
	Fatigue		
	Cognitive disturbance		
	Muscle weakness left-sided		
		

Table 20. List of previous pathologies

Pat. n.	Hospital	Previous pathology	Intensity	Action
1	01-003			
2	01-004			
3	01-006			
..	01-006			

Table 21. Time since diagnosis

	N	Mean	SD	Median	Min	Max
Time since 1st diagnosis until 1st cycle (months)						

1.2. EFFICACY ANALYSES

1.2.1. PRIMARY EFFICACY ANALYSES: PFS

At 6 and 9 months the estimated PFS was 21.23% (with 95% CI 11-40.97), at 12 months it was 16.99% (with 95% CI 7.71-37.43) and from 18 to 48 months it was 11.32% (with 95% CI 3.68-34.86).

The median of PFS was 2.84 months (with 95% CI 2.71-5.39).

Table 22. PFS estimated survival ratio

Progression Free Survival	Events (% total N)	Patients at risk	% estimated cumulative survival ratio	CI 95%
At 6 months				
At 9 months				
At 12 months				
At 18 months				
At 24 months				
At 30 months				
At 36 months				
At 42 months				
At 48 months				

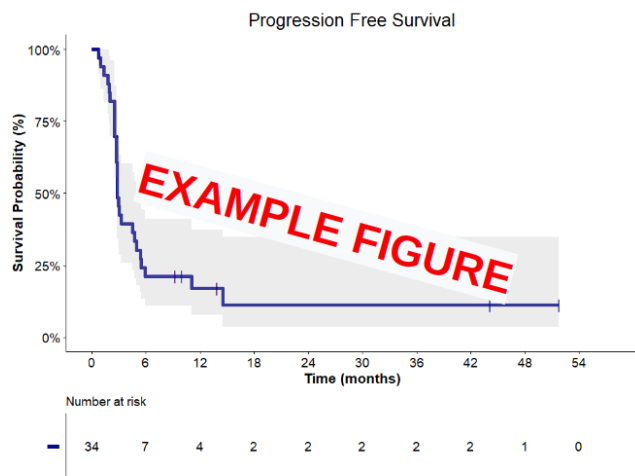
Note: Estimated using Kaplan-Meier product-limit method

Table 23. Median/mean PFS (estimated by Kaplan-Meier)

Progression Free Survival	Median (months)	CI 95%	Mean	CI 95%

Note: Estimated using Kaplan-Meier product-limit method

Figure 1. Progression Free Survival



In the 28 patients with PD, the median until progression was 2.8 months.

Table 24. Time until PD/exitus (only pts with event)

Overall	Overall (N=xx)
Time until PD/Exitus	
N	
Mean (95%CI)	
SD	
Median (95%CI)	
Range	

1.3.2. SECONDARY EFFICACY ANALYSES

1.2.2.1 OS

At 6 months the estimated OS was xx % (with xx% CI xx-xx), at 9 months it was xx % (with xx% CI xx-xx), at xx months it was

The median of OS was xxx months (with xx% CI xx-xx)

Table 25. OS estimated survival ratio

Overall Survival	Events (% , total N)	Patients at risk	% estimated cumulative survival ratio	CI 95%
At 6 months				
At 9 months				
At 12 months				
At 18 months				
.....				

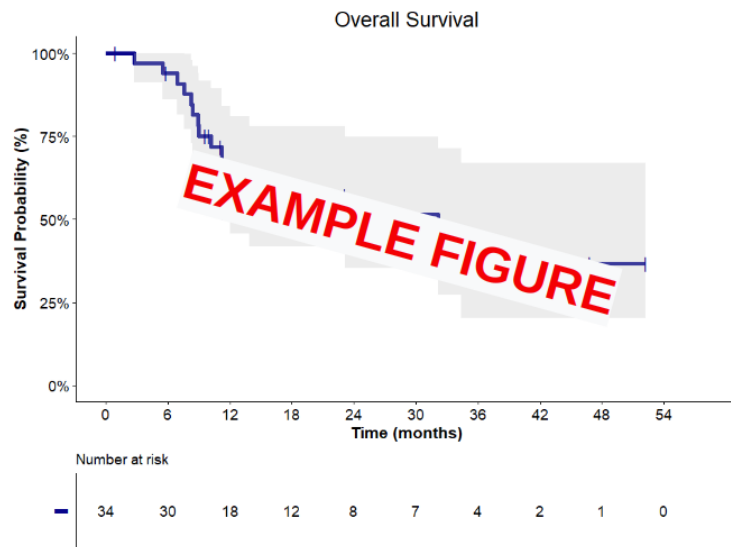
Note: Estimated using Kaplan-Meier product-limit method

Table 26. Median/mean OS (estimated by Kaplan-Meier)

	Median (months)	CI 95%	Mean	CI 95%
Overall Survival				

Note: Estimated using Kaplan-Meier product-limit method

Figure 2. Overall Survival



In those patients who died (n=xx), the median of follow-up was xx months.

Table 27. Time until exitus (only deaths)

Overall	Overall (N=xx)
Time until Exitus	
N	
Mean (95%CI)	
SD	
Median (95%CI)	
Range	

In overall, the median of follow-up was xx months (minimum xx months and maximum of xx months).

Table 28. Time of follow-up (all patients)

Overall	Overall (N=xx)
Time until Exitus	
N	
Mean (95%CI)	
SD	

Overall	Overall (N=xx)
Median	
(95%CI)	
Range	

1.2.2.2 RESPONSES

13 patients (38.2%, with 95% CI 21.9-54.6), reached clinical benefit (all were Stable Disease).

Table 29. Best response and Clinical benefit rate

		N (% , 95% CI)
Best response rate	CR	
	SD	
	PD	
	No evaluated	
	Total	
Clinical benefit rate	No	
	Yes (CR or PR or SD)	
	No evaluable	
	Total	

In xx patients (xx%) the reason to end of treatment was PD; xx patients (xx%) were alive at the end of follow-up.

Table 30. Status at end of study

		N (%)
Current status	End of treatment due to patient decision and patient is alive at end of follow-up	
	End of treatment due to PD and patient is alive at end of follow-up	
	End of treatment due to PD and patient is exitus	
	End of treatment but reason not reported and patient is exitus	
	End of treatment due to lack of clinical benefit and patient is alive at end of follow-up	
	On treatment	
	Total	
End of treatment reason	PD	
	Toxicity (with PD)	
	Patient decision	
	On treatment	
	No clinical benefit	
	Total	
Status at end of follow-up	Alive	
	Exitus	
	Total	

1.2.2.3 RANO EVALUATION

xx patients (xx%) presented PD in RANO evaluations, xx (xx%) of them in the 2nd RANO, x (xx%) the 3rd, x (xx%) in the 5th and x (xx%) in the 6th.

Table 31. RANO Evaluation (I)

	N	%
RANO evaluation 2 without PD in RANO		
with PD		
3		
5		
6		
Total		
Reason of PD with RANO		
Example:		
T1-Gd+; T2-FLAIR: / New lesions: New appearance/ Corticoids evolution (last 5 days): Stable/ Clinical evaluation (neurological): Stable		
...		
Total		

Table 32. RANO Evaluation (II)

		N	%
	NA or not reported		
T1Gd+ (PD RANO)	Decrease <5% or Increase < 25%		
	Increase >= 25%*		
	Total		
	NA or not reported		
T2/FLAIR (PD RANO)	Increase		
	Stable		
	Total		
	NA or not reported		
New lesions (PD RANO)	New appearance		
	No		
	Total		
	NA or not reported		
Corticoids evolution (PD RANO)	Decrease		
	Increase		
	No corticoids		
	Total		
	NA or not reported		
Clinical evaluation (PD RANO)	Stable		
	Worsening		
	Total		

Table 33. List of patients with RANO progressions with details
Reason of PD with RANO

Patient number	Evaluation RANO con PD	Reason of PD with RANO
1		Example: T1-Gd+: Increase \geq 25%/ T2-FLAIR: Stable/ New lesions: No/ Corticoids evolution (last 5 days): No corticoids/ Clinical evaluation (neurological): Stable
2		
...		

1.2.2.4 USE OF CORTICOIDS

x patients (xx%) reported use of corticoids.

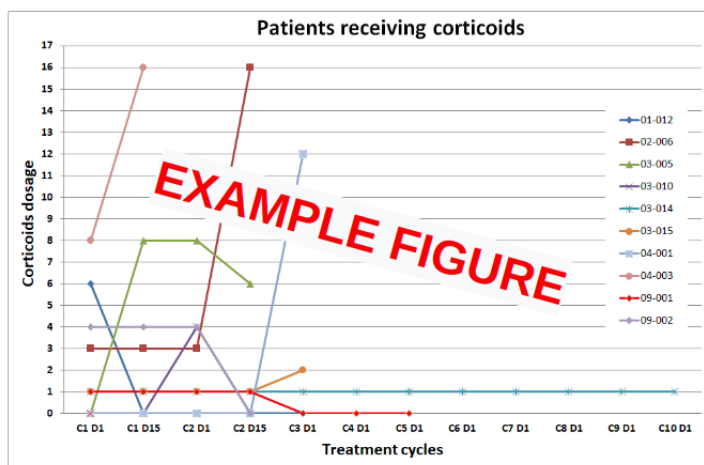
Table 34. Use of Corticoids

	N	%
Receive corticoids during treatment (cycles)	No	
	Yes	
	Total	
Changes in corticoids doses from baseline (during treatment cycles)	No	
	Increased	
	Increased with posterior decrease	
	Decreased	
	Stable	
Total		

Table 35. List of patients receiving corticoids and Follow-up of dosage

Patient number	Receive corticoids during treatment (cycles)	Changes in corticoids doses from baseline (during treatment cycles)	C1 D1	C1 D15	C2 D1	C2 D15	C3 D1	C4 D1	C5 D1	C6 D1	C7 D1	C8 D1	C9 D1	C10 D1	C11 D1
1	Yes	Example: Decreased/Increased/Stable													
2															
3														

Figure 3. Use of corticoids



1.1.1.1 EVOLUTION OF MINIMENTAL TEST

The results of the minimental test for each patient (when available), is reported in the following table.

Table 36. Minimental Test: Results for each patient

Patient number	Baseline	C2 d1	C3 d1	C4 d1	C5 d1	C6 d1	C7 d1	C8 d1	C9 d1	C10 d1	C12 d1	C13 d1	C14 d1	C15 d1	C16 d1	C17 d1	C18 d1	C19 d1	C20 d1	C21 d1	C22 d1	C23 d1	End of treatment	
....																								

Table 37. Minimental Test: Summary in each visit

	N	Mean (SD)	Median (Min-Max)
Test Minimental (baseline)			
Test Minimental (cycle 2 d1)			
Test Minimental (cycle 3 d1)			
Test Minimental (cycle 4 d1)			
Test Minimental (cycle 5 d1)			
Test Minimental (cycle 6 d1)			
Test Minimental (cycle 7 d1)			
Test Minimental (cycle 8 d1)			
Test Minimental (cycle 9 d1)			
Test Minimental (cycle 10 d1)			
Test Minimental (cycle 12 d1)			
Test Minimental (cycle 13 d1)			
Test Minimental (cycle 14 d1)			
Test Minimental (cycle 15 d1)			
Test Minimental (cycle 16 d1)			
Test Minimental (cycle 17 d1)			
Test Minimental (cycle 18 d1)			
Test Minimental (cycle 19 d1)			
Test Minimental (cycle 20 d1)			
Test Minimental (cycle 21 d1)			
Test Minimental (cycle 22 d1)			
Test Minimental (cycle 23 d1)			
Test Minimental (end of treatment)			

Table 38. Minimental Test: Comparison between visits and baseline

	N	Mean (SD)	Median (Min-Max)	p-value ¹
Test Minimental (baseline)				
Test Minimental (cycle 2 d1)				
Test Minimental (baseline)				
Test Minimental (cycle 3 d1)				
Test Minimental (baseline)				
Test Minimental (cycle 4 d1)				
Test Minimental (baseline)				
Test Minimental (cycle 5 d1)				
Test Minimental (baseline)				
Test Minimental (cycle 6 d1)				
Test Minimental (baseline)				
Test Minimental (cycle 7 d1)				
Test Minimental (baseline)				
Test Minimental (cycle 8 d1)				
Test Minimental (baseline)				

Test Minimental (cycle 9 d1)

Test Minimental (baseline)

Test Minimental (cycle 10 d1)

Test Minimental (baseline)

Test Minimental (end of treatment)

1: Wilcoxon test

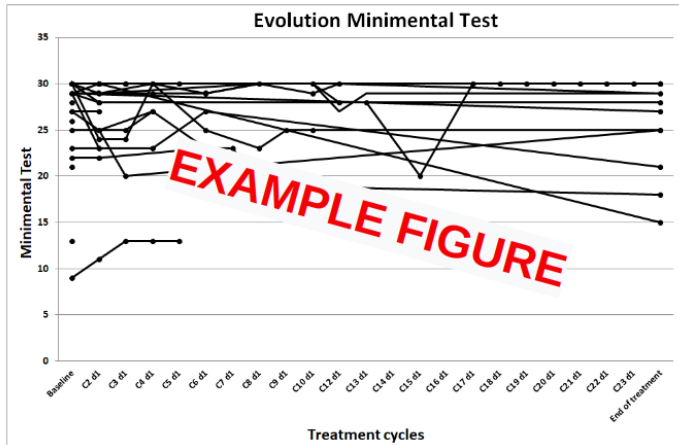


Figure 4. Minimental Test evolution

1.1.1.2 EVOLUTION OF BARTHEL INDEX

The results of the Barthel Index for each patient (when available), is reported in the following table.

Table 39. Barthel Index: Results for each patient

Patient number	Baseline	C2 d1	C3 d1	C4 d1	C5 d1	C6 d1	C7 d1	C8 d1	C9 d1	C10 d1	C11 d1	C12 d1	C13 d1	C14 d1	C15 d1	C16 d1	C17 d1	C18 d1	C19 d1	C20 d1	C21 d1	C22 d1	C23 d1	End of treatment	
....																									

Table 40. Barthel Index: Summary in each visit

	N	Mean (SD)	Median (Min-Max)
Barthel Index (baseline)			
Barthel Index (cycle 2 d1)			
Barthel Index (cycle 3 d1)			
Barthel Index (cycle 4 d1)			
Barthel Index (cycle 5 d1)			
Barthel Index (cycle 6 d1)			
Barthel Index (cycle 7 d1)			
Barthel Index (cycle 8 d1)			
Barthel Index (cycle 9 d1)			
Barthel Index (cycle 10 d1)			
Barthel Index (cycle 11 d1)			
Barthel Index (cycle 12 d1)			
Barthel Index (cycle 13 d1)			
Barthel Index (cycle 14 d1)			
Barthel Index (cycle 15 d1)			
Barthel Index (cycle 16 d1)			
Barthel Index (cycle 17 d1)			
Barthel Index (cycle 18 d1)			
Barthel Index (cycle 19 d1)			
Barthel Index (cycle 20 d1)			
Barthel Index (cycle 21 d1)			
Barthel Index (cycle 22 d1)			
Barthel Index (cycle 23 d1)			
Barthel Index (end of treatment)			

The Barthel Index result in each visit was compared with the baseline result in those cases with results for at least 4 patients (for each pairwise comparison only those patients with measures in both visits could be compared). No statistically significant differences were found in any of the comparisons with baseline.

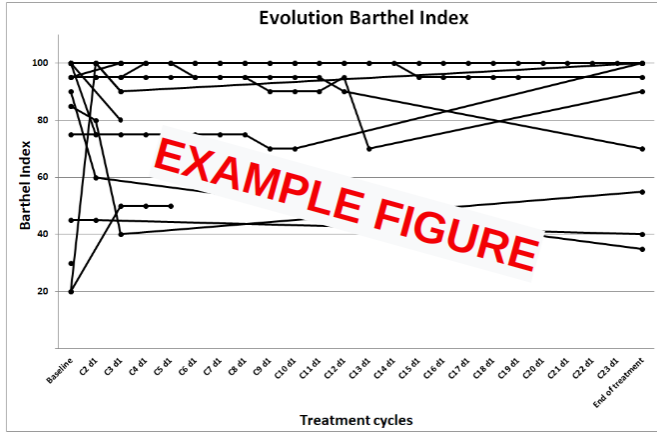
Table 41. Barthel Index: Comparison between visits and baseline

	N	Mean (SD)	Median (Min-Max)	p-value ¹
Barthel Index(baseline)				
Barthel Index(cycle 2 d1)				
Barthel Index(baseline)				
Barthel Index(cycle 3 d1)				
Barthel Index(baseline)				
Barthel Index(cycle 4 d1)				
Barthel Index(baseline)				
Barthel Index(cycle 5 d1)				
Barthel Index(baseline)				
Barthel Index(cycle 6 d1)				
Barthel Index(baseline)				
Barthel Index(cycle 7 d1)				
Barthel Index(baseline)				

Barthel Index(cycle 8 d1)
Barthel Index(baseline)
Barthel Index(cycle 9 d1)
Barthel Index(baseline)
Barthel Index(cycle 10 d1)
Barthel Index(baseline)
Barthel Index(end of treatment)

1: Wilcoxon test

Figure 5. Barthel Index evolution



1.2. SAFETY ANALYSES

Every patient but one presented at least one adverse event during follow-up (n=xx, xx%). xx patients (xx%) presented at least one adverse event grade≥3 during follow-up. xx patients (x%) presented at least one toxicity (related AE) during follow-up. xx patients (xx%) presented at least one toxicity grade≥3 (related AE) during follow-up. xx patients (xx%) presented at least one SAE during follow-up, and none was reported as related to the treatment.

Table 42. Safety results summary

	N	%
AE	No	
	Yes	
	Total	
Adverse event grade≥3	No	
	Yes	
	Total	
Toxicity (any)	No	
	Yes	
	Total	
Toxicity grade≥3	No	
	Yes	
	Total	
SAE (any)	No	
	Yes	
	Total	
SAE related	No	
	Total	

1.2.1.

1.2.2. ADEVERSE EVENTS

The most frequent adverse event (any grade) were xxxxx (xx%, n=xx)....

Table 43. Frequencies of all adverse events

Adverse event	N	%
EXAMPLES:		
Neutrophil count decreased		
Fatigue		
Platelet count decreased		
Anaemia		
.....		

%: calculated respect the total number of patients (N=34)

The most frequent adverse events, (at least in 10% of the patients, n=xx), are reported in the following table:

Table 44. Most frequent adverse events

	N	%	
Specify Adverse events.	No	10	29.4%
	Yes	24	70.6%
EXAMPLE: Fatigue	Total	34	100.0%
.....	No	14	41.2%
	Yes	20	58.8%

Total	34	100.0%
--------------	----	--------

The most frequent adverse events with their respective grades are reported in the following table:

Table 45. Most frequent adverse events with grades

	No		G1		G2		G3		G4		Total	
	N	%	N	%	N	%	N	%	N	%	N	%

Specify Adverse events.

EXAMPLE: Fatigue

.....

1.2.2. TOXICITIES

The most frequent toxicities (related AE of any grade) were xxx decreased (xx%, n=xx)....

Table 46. Frequency of Toxicities

		N	%
Adverse event	Specify Advert event. EXAMPLE: Neutrophil count decreased		
		

%: calculated respect the total number of patients (N=xx)

The most frequent toxicities (at least in 10% of the patients, n=x), are reported in the following table:

Table 47. Most frequent Toxicities

		N	%
Specify Advert event EXAMPLE: Neutrophil count decreased	No		
	Yes		
	Total		
...	No		
	Yes		
	Total		

The most frequent toxicities with their respective grades are reported in the following table:

Table 48. Most frequent Toxicities with grades

	No		G1		G2		G3		G4		Total	
	N	%	N	%	N	%	N	%	N	%	N	%
Specify Advert event EXAMPLE: Neutrophil count decreased												
....												

1.2.3. SERIOUS ADVERSE EVENTS

Table 49. List of SAEs

Patient number	Hospital	AE grade	Relation	Intensity	Action	SAE (any)
1						
2	...					
3					

1.3. ANNEX I: LIST OF ALL TOXICITIES

Table 50. List of all toxicities

Patient number	Hospital	AE grade	Relation	Intensity	Action	SAE (any)
1						
2						
3						
4						
...						

1.4. ANNEX II: ADDITIONAL RESULTS

In the event that the study coordinator considered evaluating the variables of a subgroup of patients (those of interest for the article), for example patients with progression free survival longer than 9 months (**low survivors**), some tables and graphs (PFS and OS) could be required

1.4.1. LONG SURVIVORS

Table 51. Long survivors

	N	%
Long survivor (PFS≥9m)	No	
	Yes	
	Total	

x patients were considered long survivors and are listed below:

List of long survivor patients (PFS≥9 months)

Table 52. Long survivors

	Patient number	Time until PD/Exitus	Progression Free Survival	Time until Exitus	Overall survival
1					
2					
3					
4					
5					
6					
7					

1.4.2. BASELINE AND TUMOUR CHARACTERISTICS VS LONG SURVIVORS

Those variables reported in table 1 of the article are reported below stratified by long survivors.

Table 53. Baseline and tumour characteristic vs. long survivors

		Long survivor (PFS≥9m)			p-value
		No (n=27)	Yes (n=7)	Total (n=34)	
Age, mean +/-SD years	median (range)				
	mean (SD)				
Gender, n (%)	Male				
	Female				
KPS, n (%)	0				
	1				
	2				
Barthel Index, n=31	median (range)				
	mean (SD)				
MMSE, n=31	median (range)				
	mean (SD)				
Prior treatments, n (%)	Temozolomide				
	Nitrosoureas				
	Radiotherapy				
Tumor characteristics at first surgery					
Diagnosis, n (%)	Oligoastrocytoma				
	Grade 2				
	Grade 3				
	Oligodendroglioma				
	Grade 2				
	Grade 3				
	Unknown				
	Not reported				
Time from first AO diagnosis to first cycle, median (range) months	median (range)				
	mean (SD)				
Corticoids use during treatment, n (%)					

1: T-test for independent samples; 2: Mann-Whitney U test; 3: Fisher exact test.

1.4.3. ADDITIONAL FIGURES

Figure 6. Progression Free Survival (R format)

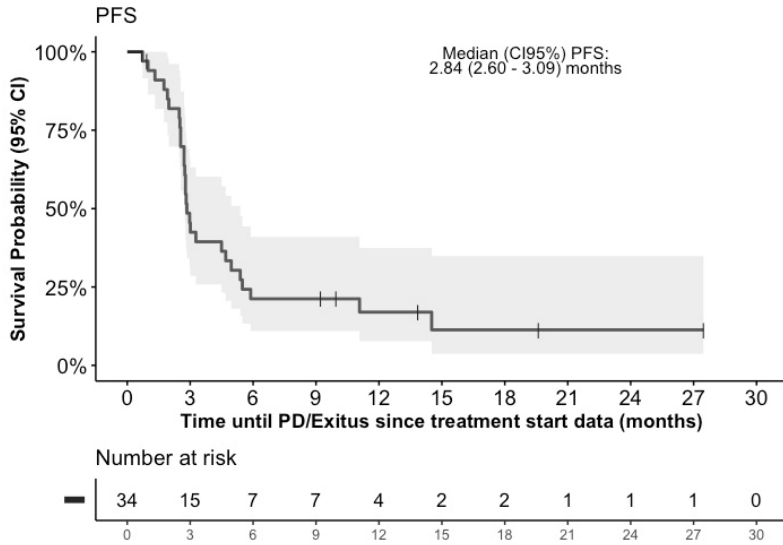


Figure 7. Overall Survival (R format)

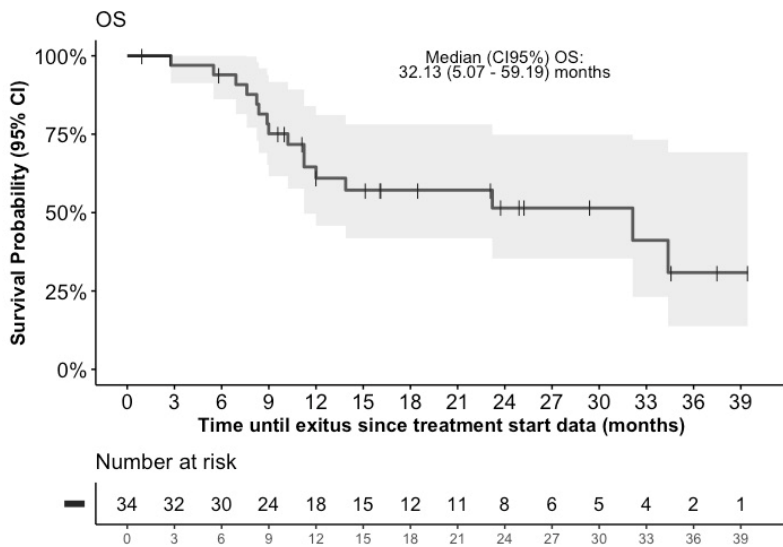


Figure 8. Swimmer plot: patient's follow-up

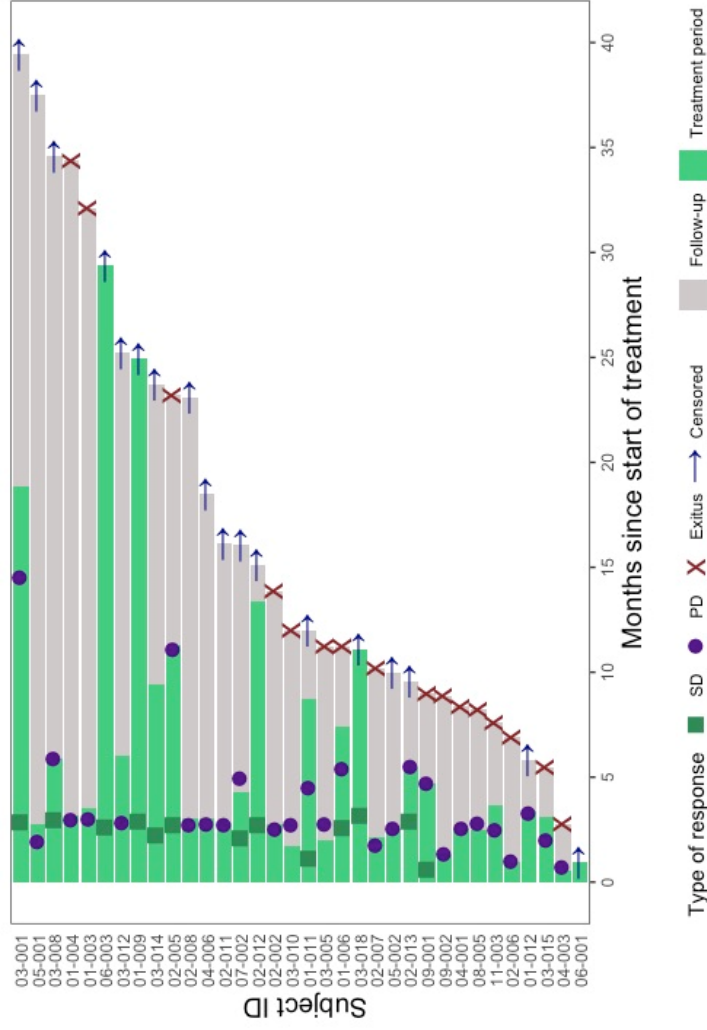
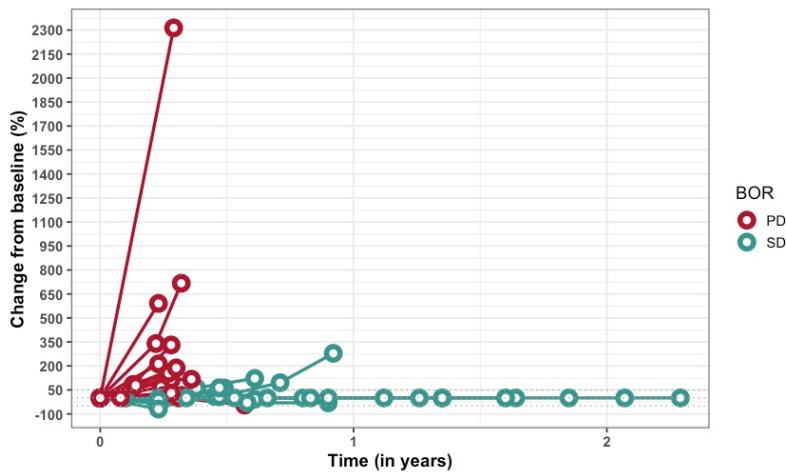


Figure 9. Spider plot: % change in lesions' measurements from baseline



Patient 04-001 had measurements that are considered outliers (too extreme) and the spider graph has been repeated excluding that patient to prevent skewing the results.

Figure 10. Spider plot: % change in lesions' measurements from baseline (excluding outlier value)

