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MEETING SUMMARY ASCO 2019, Chicago, USA

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NEUROENDOCRINE TUMOUR UPDATE

DISCLAIMER



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This content is supported by an Independent Educational Grant from Ipsen.

TOP 3 HIGH-IMPACT NEUROENDOCRINE PRESENTATIONS AT ASCO AND AACR 2019

RESULTS OF ALLIANCE (A021202): PHASE II STUDY OF PAZOPANIB VS PLACEBO IN PROGRESSIVE CARCINOID TUMOURS

Bergsland, et al. ASCO 2019 Abstract #4005

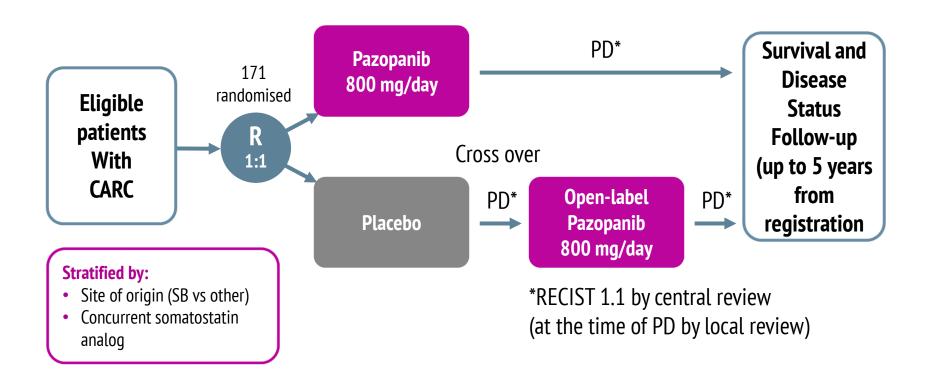
BACKGROUND



- Currently available treatments for advanced carcinoid tumours eventually lead to resistance:
 - Lanreotide
 - Everolimus
 - Lu177 dotatate
- Additional treatment options are therefore required
- VEGF and its receptors are expressed in gi/panNETs
- ALLIANCE study evaluates the effect of Pazopanib, a multi-targeted receptor tyrosine kinase inhibitor, in advanced carcinoid tumours

ALLIANCE STUDY DESIGN





ALLIANCE ENDPOINTS



PRIMARY: PFS BY CENTRAL REVIEW

Key Secondary Endpoints

- Overall survival
- Objective response rate
- Duration of response
- Time to treatment failure
- PFS (local review)
- Safety and tolerability

Other Secondary Endpoints

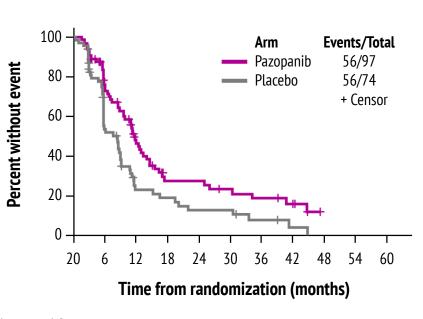
- Quality of Life
- Angiome profiling correlation with response/toxicity
- Other radiographic endpoints

ALLIANCE RESULTS



PROGRESSION FREE SURVIVAL (CENTRAL REVIEW)

PFS 11.6 months (pazopanib) vs 8.5 months (placebo)



Patients at risk:								
Pazopanib	52	29	13	13	10	8	6	0
Placebo	33	11	9	6	6	3	1	0

	Pazopanib (N=97)	Placebo (N=74)		
No. of events	56	56		
12 mo. PFS, % (90% UCB*)	46.4 (54.7)	22.9 (31.4)		
Median PFS, mo. (90% UCB)	11.6 (13.0)	8.5 (8.9)		
HR (90% UCB)	0.53 (0.69)	REF		
Stratified Log-Rank P-value = 0.0005				

Adj. HR** (90% UCB)	0.57 (0.74)	REF		
Adjusted Log-Rank P-value = 0.0020				

^{**}Gender, functional tumor, age and stratification factors (consurrent SSA, site of primary)

SUMMARY



- Pazopanib improves PFS in patients with progressive carcinoids
- No difference in Overall Survival between treatment arms
 - Confounded by crossover
- QoL assessment similar between both arms
- **Expected AE profile**; overall increase in grade ≥3 AEs
- Potential benefit of pazopanib to be considered alongside toxicity

FINAL RESULTS OF TALENT: A PHASE II MULTICOHORT STUDY OF LENVATINIB IN PATIENTS WITH G1/G2 panNETs AND giNETs

Capdevila, et al. ASCO 2019 Abstract #4106

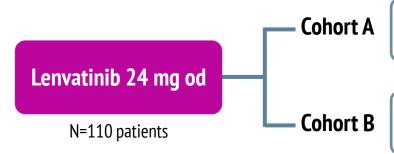
BACKGROUND



- There are limited treatment options for patients with advanced welldifferentiated (G1/G2) NETs
- Lenvatinib is a multikinase inhibitor with potent affinity against VEGFR1-3 and FGFR1-4 that may increase efficacy and revert primary and acquired resistance to TA
- TALENT was a phase II study to evaluate the efficacy of lenvatinib in panNETs and giNETs
- Final results, including subgroup analyses are presented here

TALENT STUDY DESIGN





Patients with advanced/metastatic G1/G2 neuroendocrine tumors of the pancreas after progression to a previous targeted agent

Patients with advanced/metastatic G1/G2 neuroendocrine tumors of the gastrointestinal tract after progression to somatostatin analogs

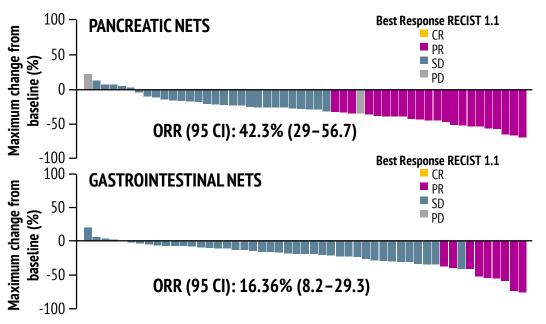
- Primary endpoint: ORR by RECIST
- Secondary endpoint: PFS, OS and safety

TALENT RESULTS



- ORR in panNET: 42.3%; ORR in giNET: 16.3%
- Median follow up 19 months
- In the subgroup analysis, all patients obtained the same benefit in PFS and ORR

PRIMARY ENDPOINT



SECONDARY ENDPOINTS

	PFS (mo)	OS (mo)
PanNETS	15.5	29.2
giNETS	15.4	NR

SAFETY

- Most frequent G3/4 AEs: hypertension (22%), fatigue (11%) and diarrhoea (11%)
- Dose reductions required in 91.8% of patients (median dose 20 mg)

SUMMARY



- Lenvatinib showed promising PFS and OS benefit in a pre-treated population
- This benefit was evident across all subgroups studied

RESULTS OF DART: A PHASE II BASKET TRIAL OF NIVOLUMAB AND IPILIMUMAB COMBINATION IN RARE TUMOURS (NEUROENDOCRINE COHORT)

Patel, et al. AACR 2019 Abstract #CT039

BACKGROUND

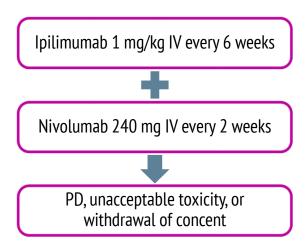


- Immune checkpoint inhibitors, such as anti-CTLA-4 and anti-PD-1 blockade, have improved clinical outcomes in various tumours
- There is a lack of data regarding these agents in rare cancers
- The DART trial, investigated the effects of ipilimumab and nivolumab on various rare tumours
- The data from the neuroendocrine cohort was presented at AACR 2019

DART STUDY DESIGN



- Open label, phase II, basket trial
- Multiple cohorts of rare tumours included
- Concurrent combination immunotherapy:
 - Ipilimumab
 - Nivolumah
- Nivolumab monotherapy allowed for patients with severe toxicity on combination
- Treatment cycle of 6 weeks
- Imaging assessments every 12 weeks



DART ENDPOINTS



NEUROENDOCRINE COHORT

- 32 eligible patients
 - Does NOT include pancreatic NET (separate study cohort)
 - 1 patients re-stratified to PanNET cohort
- 56% (n=18) had high-grade carcinoma
- Most common sites: 47% giNET (n=15) and 19% lung (n=6)
- Median number of prior lines of therapy: 2

Primary Endpoint

Overall response rate by RECIST

Secondary Endpoints

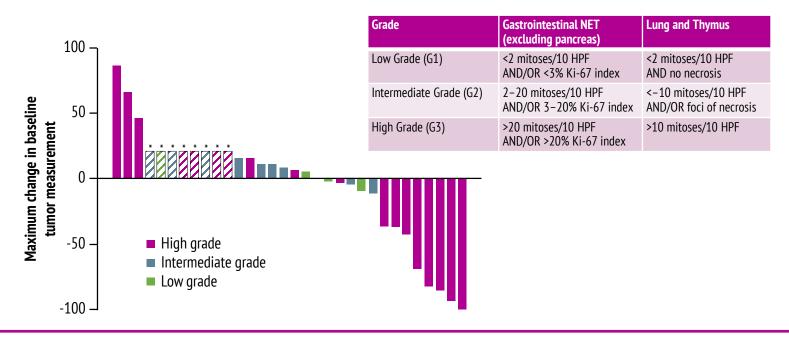
- Progression free survival
- Overall Survival
- Stable disease > 6 months
- Toxicity

DART RESULTS



- ORR 44% in high grade NEC independent of primary site
 - 18 out of 32 patients were high grade NEC
- OS was > 11 months; 6-month PFS was 31%

Response Rate by Tumor Grade of Neuroendocrine Neoplasm



SUMMARY



- Patients with high grade NEC derived clinical benefit from the combination treatment
- No significant activity in low grade NECs
- Ipilimumab plus nivolumab was well tolerated
 - Most common AEs: fatigue (30%) and nausea (27%)
 - Mot common grade 3-4 AEs: ALT (9%) and AST (6.3%) elevations
 - No grade 5 toxicities
- Further study with dual CTLA-4 and PDL-1 inhibition is warranted in high grade NEC

CONCLUSIONS



- Recent data is encouraging and after many years provides optimism for treatment options for high grade NEC
- Further randomized trials are warranted

NEC, neuroendocrine carcinoma

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