nature portfolio

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Last updated by author(s):	Oct 25, 2022

Reporting Summary

Nature Portfolio wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Portfolio policies, see our <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

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For	all statistical an	alyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.				
n/a	Confirmed					
	The exact	sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
	🔀 A stateme	nt on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly				
	The statist	ical test(s) used AND whether they are one- or two-sided on tests should be described solely by name; describe more complex techniques in the Methods section.				
	A descript	ion of all covariates tested				
	🔀 A descript	ion of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
	A full desc	cription of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) ation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)				
\boxtimes		Il hypothesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted values as exact values whenever suitable.				
	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
\boxtimes	\square Estimates of effect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated					
	•	Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.				
So	Software and code					
Poli	Policy information about <u>availability of computer code</u>					
Da	ata collection	No software was used				
Da	ata analysis	Statistical analyses were performed with SPSS version 25 software (IBM Corporation, Armonk, NY)				

Data

Policy information about <u>availability of data</u>

All manuscripts must include a <u>data availability statement</u>. This statement should provide the following information, where applicable:

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Portfolio guidelines for submitting code & software for further information.

- Accession codes, unique identifiers, or web links for publicly available datasets
- A description of any restrictions on data availability
- For clinical datasets or third party data, please ensure that the statement adheres to our policy

The data that support the findings of this study are available from the corresponding author upon reasonable request.

Policy information about studies involving human research participants and Sex and Gender in Research. Reporting on sex and gender Descriptive statistics were used to summarize the patient characteristics.				
Reporting on sex and gender Descriptive statistics were used to summarize the patient characteristics.				
Population characteristics Patients underwent genomic profiling of tissue (somatic) and/or blood using next generation sequencing (NGS) treated with targeted therapy based on their individual genomic profiling.	and were			
ecruitment This was a single-center analysis of real-world patients with advanced pancreatic cancer treated with matched to University of California San Diego (UCSD) Moores Cancer Center for Personalized Cancer Therapy.				
Ethics oversight all ethical approvals from the UCSD Internal Review Board.				
Note that full information on the approval of the study protocol must also be provided in the manuscript.				
Field-specific reporting				
Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your	selection.			
Life sciences Behavioural & social sciences Ecological, evolutionary & environmental sciences				
For a reference copy of the document with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>				
Life sciences study design				
All studies must disclose on these points even when the disclosure is negative.				
Sample size No sample-size calculation was performed.				
Data exclusions Patients still progression free or alive at last follow up for PFS and OS, respectively, were censored on that date.	Patients still progression free or alive at last follow up for PFS and OS, respectively, were censored on that date.			
Replication No reproducibility as this were all n of 1 therapies based on matching scores.	No reproducibility as this were all n of 1 therapies based on matching scores.			
Randomization No randomization as all patients were treated by the molecular tumor board.	No randomization as all patients were treated by the molecular tumor board.			
Blinding Matching score was determined by investigators who were blinded to outcome at the time of calculation.	Matching score was determined by investigators who were blinded to outcome at the time of calculation.			
Paparting for specific materials, systems and methods				
Reporting for specific materials, systems and methods We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether	aach matarial			
system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting				
Materials & experimental systems Methods				
n/a Involved in the study n/a Involved in the study				
Antibodies ChIP-seq Eukaryotic cell lines Flow cytometry				
Eukaryotic cell lines Flow cytometry Palaeontology and archaeology MRI-based neuroimaging				
Animals and other organisms				
Clinical data				
Dual use research of concern				

Clinical data

Policy information about <u>clinical studies</u>

All manuscripts should comply with the ICMJE guidelines for publication of clinical research and a completed CONSORT checklist must be included with all submissions.

Clinical trial registration NCT02478931

Study protocol https://clinicaltrials.gov/ct2/show/NCT02478931

Data collection

This was a single-center analysis of real-world patients with advanced pancreatic cancer treated with matched therapy at the University of California San Diego (UCSD) Moores Cancer Center for Personalized Cancer Therapy. The

Outcomes

Key endpoints of the study included OS, PFS, objective response rate (ORR), and CBR (defined as stable disease (SD) > 6 months or partial response (PR) or complete response (CR)). OS was calculated from the time of initiation of therapy to death or last follow up. PFS was calculated from the time of initiation of targeted therapy to progression or death. First therapy after MTB was considered. OS and PFS were stratified by line of matched therapy (1st line vs 2nd line or greater) and matching score (< 50% vs > 50%). Survival analysis was done using Kaplan-Meier analysis and stratified survival curves were compared using the log-rank test.