### <u>Materials Design Analysis Reporting (MDAR)</u> Checklist for Authors

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: doi:10.31222/osf.io/9sm4x.). The MDAR checklist is a tool for authors, editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

# **Materials**

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide	Methods (page 6, Para 2 and 3/line 135-143)	
supplier name, catalogue number and	Plasma collected using heparin containing tubes (Cat NO: 367878	
RRID, if available.	Becton Dickinson, New Jersey, USA).	
	PGRN was analyzed using ELISA assays (Cat NO: DPGRN0, R&D	
	Systems, Minneapolis, USA).	
Coll mode wiels		
Cell lines: Dravida spasias information	Yes (Indicate where provided: section/paragraph)	n/a
strain Brovide accession number in	No cell lifes were used in this study.	N/A
renository <b>OR</b> supplier name, catalog		
number, clone number, <b>OR</b> RRID		
Primary cultures: Provide species strain	No cell lines or strains were used in this study	N/A
sex of origin, genetic modification		,,,
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain,	No laboratory animals were used in this study.	N/A
sex, age, genetic modification status. Provide		
accession number in repository <b>OR</b> supplier		
name, catalog number, clone number, <b>OR</b> RRID		
Animal observed in or captured from	No laboratory animals were used in this study.	N/A
the field: Provide species, sex and age		
where possible		
Model organisms: Provide Accession	No laboratory animals were used in this study.	N/A
number in repository (where relevant)		
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique	No plants were used in this study.	N/A
accession number if available, and source		
(including location for collected wild		
Microbes: provide species and strain,	No microbes were used in this study.	N/A
unique accession number if available,		
Human research participants	Ves (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB	Methods (nage 5, Para 2/line 111-119) (nage 14, nara 3, line 312-	II/d
or equivalent committee(s). provide reference	319)	
number for approval.	Institutional Review Board of the Mount Sinai School of Medicine,	
	New York; IRB reference NO: GCO1: 16-2619 and Institutional	
	Review Board of the Columbia university medical center, New York;	
	IRB reference NO: AAAA4473.	
Provide statement confirming informed	page 5, Para 2/line 111-120), and page 14, para 3, line 312-319)	
consent obtained from study participants.	Informed written consent was obtained from all colorectal cancer	
	patients who were enrolled in an IRB approved data/plasma bank	
	and all patients consented to analysis, present and to publish the	
	paper.	
Report on age and sex for all study	Results (page 8, Para 2/line 168-169-and Table 1	
participants.	A total of 93 eligible CRC patients who underwent MICR were	
	selected for the study. There were 50 males and 43 females with a	
	mean age of 66.3± 13.2 years.	

## <u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
Ear clinical trials, provide the trial registration	This study is not a clinical trail	, a
number <b>OP</b> cite DOL in manuscript	This study is not a clinical trail	
number on cite bor in manuscript.		
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-	Method (page 6 Para 2/line 132-138 and (page 6 Para	, .
by-step protocols are available.	3/line 139-143)	
	Analysis protocol described in method section	
	· /···	
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been		
done, or if they were not carried out.		
Sample size determination	Results (Page8, Para 1/line 168-169 and table 1)	
Randomisation	The study was a prospective study.	
Blinding	The study was a prospective study.	
Inclusion/exclusion criteria	Method (page 6 Para 1/line 123-128)	
Comple definition and in laboratory realization		,
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
state number of times the experiment was	Niethou (page 6, Para 3/line 139-143)	
	Plasma PGRN levels were determined in duplicate and 8	
	serial dilution standard curve samples were included on	
	each 96 wen plate; the results are reported as pg/mi.	
Define whether data describe technical or high rise		
Define whether data describe technical of biological	Method (page 2, Para 2/line 46-51), (page 6-7 Para 3/line	
replicates	139-143). The date use is Median and CI values of	
	duplicated biological sample vales.	
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of	Ethics approval and consent to participate Methods	
authority granting ethics approval (IRB or equivalent	(page 5, Para 2/line 111-119), (page 14, para 3, line 311-	
committee(s), provide reference number for	319).	
approval.	All consented preoperatively to participate in the Mount	
	Sinai West Colorectal service's IRB-approved general	
	tissue and data banking protocol (NO: GCO1: 16-2619-	
	Institutional Review Board of the Mount Sinai School of	
	Medicine, New York; and IRB reference NO: AAAA4473-	
	Institutional Review Board of the Columbia University	
	Medical Center, New York).	
Studies involving experimental animals: State details	No animal or animal tissues used in this study	
of authority granting ethics approval (IRB or		
equivalent committee(s), provide reference number		
for approval.		
Studies involving specimen and field samples: State if	No animal or animal tissues used in this study	
relevant permits obtained, provide details of	,	
authority approving study; if none were required,		
explain why.		
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern.	Not applicable- This study is not subject to dual use	
state the authority granting approval and reference	research	
number for the regulatory approval		

## <u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is	No samples or data points were excluded	
excluded, and whether the criteria for exclusion were		
determined and specified in advance.		
Statistics	Ves (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of	Method (page 7, Para 1/line 145-166)	11/4
tests.		
	Continuous random variables such as age, surgical time.	
	length of stay, surgical incision size of group was	
	presented as mean and SD whereas frequencies and	
	percentages were determined for categorical variables.	
	Blood samples collected at postoperative time points	
	were collected during postoperative follow-up visits and	
	as such the late specimens were spread out over a 3-4	
	week period. The late samples were bundled into 7 day	
	time blocks (POD 7-13, POD 14-20, POD 21-27, and POD	
	28-34) and were considered as single time points for the	
	statistical data analysis. Since preoperative and	
	corresponding postoperative PGRN values were not	
	normally distributed at later time points, the comparison	
	of PGRN values for the Preop vs. Postoperative time	
	points was performed with the use of non-parametric	
	test (Wilcoxon signed rank paired) and outcome data	
	were reported as Median and Cl values. Preoperative vs	
	Postoperative comparison data is depicted in a bar graph	
	snowing PGRN levels as median and 75% quartile range.	
	negraph exhibits (Figure 11) the difference of preop vs	
	Nonparametric Mann and Whitney test was used to	
	compare male vs female subgroups values, advancing	
	cancer stage subgroup values hand assisted procedure	
	subgroup preop and post on values vs lanaroscopy	
	assisted procedure subgroup preop and post op values	
	because comparisons were done between different	
	groups and numbers(n) of each group were small.	
	Correlation between postoperative plasma PGRN levels	
	and age and length of surgery was evaluated by the	
	Spearman's rank correlation coefficient (rs). A p value of	
	p<0.05 was used as statistically significant. All data	
	analysis was performed using SPSS version 15.0 (SPSS,	
	Inc., Chicago IL).	

Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available,	No newly created datasets are available.	
including protocols for access or restriction on		
access.		
If data are publicly available, provide accession	Not applicable	
number in repository or DOI or URL.		
If publicly available data are reused, provide	Not applicable	
accession number in repository or DOI or URL, where		
possible.		
Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential	Not applicable No codes were generated.	
for replicating the main findings of the study:		
State whether the code or software is available.	Not applicable	
If code is publicly available, provide accession	Not applicable	
number in repository, or DOI or URL.		

## **Reporting**

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a
MDAR framework recommends adoption of discipline-specific guidelines, established and endorsed through community initiatives. Journals have their own policy about requiring specific guidelines and recommendations to complement MDAR.		
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication.	

Article Information: https://dx.doi.org/10.21037/jgo-24-114

\*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version.