

ICMJE Form for Disclosure of Potential Conflicts of Interest

Instructions

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This section asks about patents and copyrights, whether pending, issued, licensed and/or receiving royalties.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
J. Michael

2. Surname (Last Name)
Wells

3. Date
13-September-2018

4. Are you the corresponding author? Yes No

5. Manuscript Title
Elevated Circulating MMP-9 and Increased Exacerbation Risk in COPD: Results from SPIROMICS and COPDGene

6. Manuscript Identifying Number (if you know it)
123614-INS-CMED-1

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Dr. Wells has nothing to disclose.

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Section 1. Identifying Information

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Margaret

2. Surname (Last Name)
Parker

3. Date
13-September-2018

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Yes No

Corresponding Author's Name
Amit Gaggar and J. Michael Wells

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1. Given Name (First Name)
Robert

2. Surname (Last Name)
Oster

3. Date
13-September-2018

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Yes No

Corresponding Author's Name
Amit Gaggar and J. Michael Wells

5. Manuscript Title

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Russ

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Bowler

3. Date
13-September-2018

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Yes No

Corresponding Author's Name
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Mark
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Dransfield
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13-September-2018
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Royalties: Funds are coming in to you or your institution due to your patent

ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Surya
2. Surname (Last Name)
Bhatt
3. Date
13-September-2018
4. Are you the corresponding author? Yes No
Corresponding Author's Name
Amit Gaggar and J. Michael Wells
5. Manuscript Title
Elevated Circulating MMP-9 and Increased Exacerbation Risk in COPD: Results from SPIROMICS and COPDGene
6. Manuscript Identifying Number (if you know it)
123614-INS-CMED-1

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Are there any relevant conflicts of interest? Yes No

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No

ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 5. Relationships not covered above

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Section 6. Disclosure Statement

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Dr. Bhatt has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Michael
2. Surname (Last Name)
Cho
3. Date
13-September-2018
4. Are you the corresponding author? Yes No
Corresponding Author's Name
Amit Gaggar and J. Michael Wells
5. Manuscript Title
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Dr. Cho has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)
Victor

2. Surname (Last Name)
Kim

3. Date
13-September-2018

4. Are you the corresponding author? Yes No

Corresponding Author's Name
Amit Gaggar and J. Michael Wells

5. Manuscript Title
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Dr. Kim has nothing to disclose.

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Royalties: Funds are coming in to you or your institution due to your patent

ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Jeffrey
2. Surname (Last Name)
Curtis
3. Date
13-September-2018
4. Are you the corresponding author? Yes No
Corresponding Author's Name
Amit Gaggar and J. Michael Wells
5. Manuscript Title
Elevated Circulating MMP-9 and Increased Exacerbation Risk in COPD: Results from SPIROMICS and COPDGene
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Section 4. Intellectual Property -- Patents & Copyrights

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Dr. Curtis has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Fernando 2. Surname (Last Name) Martinez 3. Date 13-September-2018

4. Are you the corresponding author? Yes No Corresponding Author's Name
Amit Gaggar and J. Michael Wells

5. Manuscript Title
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6. Manuscript Identifying Number (if you know it)
123614-INS-CMED-1

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Dr. Martinez has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

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Robert

2. Surname (Last Name)
Paine

3. Date
13-September-2018

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Dr. Paine has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) 2. Surname (Last Name) 3. Date
 Wanda O'Neal 13-September-2018

4. Are you the corresponding author? Yes No Corresponding Author's Name
Amit Gaggar and J. Michael Wells

5. Manuscript Title
 Elevated Circulating MMP-9 and Increased Exacerbation Risk in COPD: Results from SPIROMICS and COPDGene

6. Manuscript Identifying Number (if you know it)
 123614-INS-CMED-1

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Are there any relevant conflicts of interest? Yes No

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

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Dr. O'Neal has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)

Wassim

2. Surname (Last Name)

Labaki

3. Date

13-September-2018

4. Are you the corresponding author?

Yes No

Corresponding Author's Name

Amit Gaggar and J. Michael Wells

5. Manuscript Title

Elevated Circulating MMP-9 and Increased Exacerbation Risk in COPD: Results from SPIROMICS and COPDGene

6. Manuscript Identifying Number (if you know it)

123614-INS-CMED-1

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No

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Dr. Labaki has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Robert
2. Surname (Last Name)
Kaner
3. Date
13-September-2018
4. Are you the corresponding author? Yes No
Corresponding Author's Name
Amit Gaggar and J. Michael Wells
5. Manuscript Title
Elevated Circulating MMP-9 and Increased Exacerbation Risk in COPD: Results from SPIROMICS and COPDGene
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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Igor
2. Surname (Last Name) Barjaktarevic
3. Date 13-September-2018

4. Are you the corresponding author? Yes No
Corresponding Author's Name
Amit Gaggar and J. Michael Wells

5. Manuscript Title
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ICMJE Form for Disclosure of Potential Conflicts of Interest

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Edwin
2. Surname (Last Name) Silverman
3. Date 13-September-2018

4. Are you the corresponding author? Yes No
Corresponding Author's Name
Amit Gaggar and J. Michael Wells

5. Manuscript Title
Elevated Circulating MMP-9 and Increased Exacerbation Risk in COPD: Results from SPIROMICS and COPDGene

6. Manuscript Identifying Number (if you know it)
123614-INS-CMED-1

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Are there any relevant conflicts of interest? Yes No

Section 4. Intellectual Property -- Patents & Copyrights

Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes No

ICMJE Form for Disclosure of Potential Conflicts of Interest

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Section 6. Disclosure Statement

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Dr. Silverman has nothing to disclose.

Evaluation and Feedback

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) James
2. Surname (Last Name) Crapo
3. Date 13-September-2018

4. Are you the corresponding author? Yes No
Corresponding Author's Name
Amit Gaggar and J. Michael Wells

5. Manuscript Title
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Dr. Crapo has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Graham
2. Surname (Last Name) Barr
3. Date 13-September-2018

4. Are you the corresponding author? Yes No
Corresponding Author's Name
Amit Gaggar and J. Michael Wells

5. Manuscript Title
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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Prescott
 2. Surname (Last Name) Woodruff
 3. Date 13-September-2018

4. Are you the corresponding author? Yes No
 Corresponding Author's Name
 Amit Gaggar and J. Michael Wells

5. Manuscript Title
 Elevated Circulating MMP-9 and Increased Exacerbation Risk in COPD: Results from SPIROMICS and COPDGene

6. Manuscript Identifying Number (if you know it)
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Dr. Woodruff has nothing to disclose.

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name) Peter
2. Surname (Last Name) Castaldi
3. Date 13-September-2018

4. Are you the corresponding author? Yes No
Corresponding Author's Name
Amit Gaggar and J. Michael Wells

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ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)
Amit

2. Surname (Last Name)
Gaggar

3. Date
13-September-2018

4. Are you the corresponding author? Yes No

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STROBE Statement—checklist of items that should be included in reports of observational studies

	Item No.	Recommendation	Page No.	Relevant text from manuscript
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	1	
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	6-7	
Introduction				
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	9-10	
Objectives	3	State specific objectives, including any prespecified hypotheses	10	
Methods				
Study design	4	Present key elements of study design early in the paper	20-23	At end of manuscript per journal style
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	20	
Participants	6	(a) <i>Cohort study</i> —Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up <i>Case-control study</i> —Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls <i>Cross-sectional study</i> —Give the eligibility criteria, and the sources and methods of selection of participants	20	
		(b) <i>Cohort study</i> —For matched studies, give matching criteria and number of exposed and unexposed <i>Case-control study</i> —For matched studies, give matching criteria and the number of controls per case	n/a	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	20-23	
Data sources/ measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	21-22	
Bias	9	Describe any efforts to address potential sources of bias	20-23	
Study size	10	Explain how the study size was arrived at	35	CONSORT Diagram

Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	22-23	
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	22-23	
		(b) Describe any methods used to examine subgroups and interactions	22-23	
		(c) Explain how missing data were addressed	22-23	Complete case analysis
		(d) <i>Cohort study</i> —If applicable, explain how loss to follow-up was addressed <i>Case-control study</i> —If applicable, explain how matching of cases and controls was addressed <i>Cross-sectional study</i> —If applicable, describe analytical methods taking account of sampling strategy	n/a	
		(e) Describe any sensitivity analyses	n/a	
Results				
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	11 & 35	
		(b) Give reasons for non-participation at each stage	35	CONSORT Diagram
		(c) Consider use of a flow diagram	35	CONSORT Diagram
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	11 & 41	Table 1
		(b) Indicate number of participants with missing data for each variable of interest	n/a	Complete case analysis
		(c) <i>Cohort study</i> —Summarise follow-up time (eg, average and total amount)	12-13	
Outcome data	15*	<i>Cohort study</i> —Report numbers of outcome events or summary measures over time	12-14	
		<i>Case-control study</i> —Report numbers in each exposure category, or summary measures of exposure	n/a	
		<i>Cross-sectional study</i> —Report numbers of outcome events or summary measures	n/a	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	11-14; tables	
		(b) Report category boundaries when continuous variables were categorized	11-14; tables	
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	39	Figure 4 (p39)

Continued on next page

Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	11-14, tables
Discussion			
Key results	18	Summarise key results with reference to study objectives	15
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	18
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	19
Generalisability	21	Discuss the generalisability (external validity) of the study results	15-19
Other information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	7-8

*Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at <http://www.plosmedicine.org/>, Annals of Internal Medicine at <http://www.annals.org/>, and Epidemiology at <http://www.epidem.com/>). Information on the STROBE Initiative is available at www.strobe-statement.org.