

ICMJE Form for Disclosure of Potential Conflicts of Interest

Instructions

The purpose of this form is to provide readers of your manuscript with information about your other interests that could influence how they receive and understand your work. The form is designed to be completed electronically and stored electronically. It contains programming that allows appropriate data display. Each author should submit a separate form and is responsible for the accuracy and completeness of the submitted information. The form is in six parts.

1. Identifying information.

2. The work under consideration for publication.

This section asks for information about the work that you have submitted for publication. The time frame for this reporting is that of the work itself, from the initial conception and planning to the present. The requested information is about resources that you received, either directly or indirectly (via your institution), to enable you to complete the work. Checking "No" means that you did the work without receiving any financial support from any third party -- that is, the work was supported by funds from the same institution that pays your salary and that institution did not receive third-party funds with which to pay you. If you or your institution received funds from a third party to support the work, such as a government granting agency, charitable foundation or commercial sponsor, check "Yes".

3. Relevant financial activities outside the submitted work.

This section asks about your financial relationships with entities in the bio-medical arena that could be perceived to influence, or that give the appearance of potentially influencing, what you wrote in the submitted work. You should disclose interactions with ANY entity that could be considered broadly relevant to the work. For example, if your article is about testing an epidermal growth factor receptor (EGFR) antagonist in lung cancer, you should report all associations with entities pursuing diagnostic or therapeutic strategies in cancer in general, not just in the area of EGFR or lung cancer.

Report all sources of revenue paid (or promised to be paid) directly to you or your institution on your behalf over the 36 months prior to submission of the work. This should include all monies from sources with relevance to the submitted work, not just monies from the entity that sponsored the research. Please note that your interactions with the work's sponsor that are outside the submitted work should also be listed here. If there is any question, it is usually better to disclose a relationship than not to do so.

For grants you have received for work outside the submitted work, you should disclose support ONLY from entities that could be perceived to be affected financially by the published work, such as drug companies, or foundations supported by entities that could be perceived to have a financial stake in the outcome. Public funding sources, such as government agencies, charitable foundations or academic institutions, need not be disclosed. For example, if a government agency sponsored a study in which you have been involved and drugs were provided by a pharmaceutical company, you need only list the pharmaceutical company.

4. Intellectual Property.

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

5. Relationships not covered above.

Use this section to report other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work.

Definitions.

Entity: government agency, foundation, commercial sponsor, academic institution, etc.

Grant: A grant from an entity, generally [but not always] paid to your organization

Personal Fees: Monies paid to you for services rendered, generally honoraria, royalties, or fees for consulting, lectures, speakers bureaus, expert testimony, employment, or other affiliations

Non-Financial Support: Examples include drugs/equipment supplied by the entity, travel paid by the entity, writing assistance, administrative support, etc.

Other: Anything not covered under the previous three boxes

Pending: The patent has been filed but not issued

Issued: The patent has been issued by the agency

Licensed: The patent has been licensed to an entity, whether earning royalties or not

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)
Ethan

2. Surname (Last Name)
Cottrill

3. Date
21-October-2018

4. Are you the corresponding author? ☒ Yes ☐ No

5. Manuscript Title
Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review

6. Manuscript Identifying Number (if you know it)

Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest? ☐ Yes ☒ No

Section 3. Relevant financial activities outside the submitted work.

Place a check in the appropriate boxes in the table to indicate whether you have financial relationships (regardless of amount of compensation) with entities as described in the instructions. Use one line for each entity; add as many lines as you need by clicking the "Add +" box. You should report relationships that were **present during the 36 months prior to publication**.

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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- ☒ No other relationships/conditions/circumstances that present a potential conflict of interest

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Section 6. Disclosure Statement

Based on the above disclosures, this form will automatically generate a disclosure statement, which will appear in the box below.

Dr. Cottrill has nothing to disclose.

Evaluation and Feedback

Please visit <http://www.icmje.org/cgi-bin/feedback> to provide feedback on your experience with completing this form.

ICMJE Form for Disclosure of Potential Conflicts of Interest

Section 1. Identifying Information

1. Given Name (First Name)

A. Karim

2. Surname (Last Name)

Ahmed

3. Date

21-October-2018

4. Are you the corresponding author?

☐ Yes

☒ No

Corresponding Author's Name

Ethan Cottrill

5. Manuscript Title

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Dr. Ahmed 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)
Noah

2. Surname (Last Name)
Lessing

3. Date
21-October-2018

4. Are you the corresponding author?

☐ Yes ☒ No

Corresponding Author's Name
Ethan Cottrill

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Dr. Lessing has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)
Zachary

2. Surname (Last Name)
Pennington

3. Date
21-October-2018

4. Are you the corresponding author?

☐ Yes ☒ No

Corresponding Author's Name
Ethan Cottrill

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Dr. Pennington has nothing to disclose.

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Section 1. Identifying Information

1. Given Name (First Name)
Wataru

2. Surname (Last Name)
Ishida

3. Date
21-October-2018

4. Are you the corresponding author?

☐ Yes ☒ No

Corresponding Author's Name
Ethan Cottrill

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Dr. Ishida 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) Alexander | 2. Surname (Last Name) Perdomo-Pantoja | 3. Date 21-October-2018 |
| 4. Are you the corresponding author? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Corresponding Author's Name Ethan Cottrill |
| 5. Manuscript Title Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review | | |
| 6. Manuscript Identifying Number (if you know it) | | |

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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

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Dr. Perdomo-Pantoja 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) Sheng-fu Larry | 2. Surname (Last Name) Lo | 3. Date 21-October-2018 |
| 4. Are you the corresponding author? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Corresponding Author's Name Ethan Cottrill |
| 5. Manuscript Title Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review | | |
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Are there any relevant conflicts of interest? ☒ Yes ☐ No

If yes, please fill out the appropriate information below.

| Name of Entity | Grant? | Personal Fees? | Non-Financial Support? | Other? | Comments |
|---------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--|
| Chordoma Foundation | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Research material, cell lines, animal models |

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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Section 5. Relationships not covered above

Are there other relationships or activities that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work?

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Section 6. Disclosure Statement

Based on the above disclosures, this form will automatically generate a disclosure statement, which will appear in the box below.

Dr. Lo reports grants from Chordoma Foundation, outside the submitted work.

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)
Elizabeth

2. Surname (Last Name)
Howell

3. Date
21-October-2018

4. Are you the corresponding author?

☐ Yes ☒ No

Corresponding Author's Name
Ethan Cottrill

5. Manuscript Title
Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review

6. Manuscript Identifying Number (if you know it)

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Are there any relevant conflicts of interest? ☐ Yes ☒ No

Section 3. Relevant financial activities outside the submitted work.

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Are there any relevant conflicts of interest? ☐ Yes ☒ No

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Section 6. Disclosure Statement

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Dr. Howell 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)
Christina

2. Surname (Last Name)
Holmes

3. Date
21-October-2018

4. Are you the corresponding author?

☐ Yes ☒ No

Corresponding Author's Name
Ethan Cottrill

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) C. Rory | 2. Surname (Last Name) Goodwin | 3. Date 21-October-2018 |
| 4. Are you the corresponding author? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Corresponding Author's Name Ethan Cottrill |
| 5. Manuscript Title Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review | | |
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Are there any relevant conflicts of interest? ☒ Yes ☐ No

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| Name of Entity | Grant? | Personal Fees? | Non-Financial Support? | Other? | Comments |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|----------|
| NIH/NINDS K12 Physician Scientist Award | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| North Carolina Spine Society | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Burroughs Wellcome Fund | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Section 4. Intellectual Property -- Patents & Copyrights

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Dr. Goodwin reports grants from NIH/NINDS K12 Physician Scientist Award, grants from North Carolina Spine Society, grants from Burroughs Wellcome Fund, outside the submitted work.

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Section 1. Identifying Information

| | | |
|---|------------------------------------|---|
| 1. Given Name (First Name) Nicholas | 2. Surname (Last Name) Theodore | 3. Date 21-October-2018 |
| 4. Are you the corresponding author? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Corresponding Author's Name Ethan Cottrill |
| 5. Manuscript Title Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review | | |
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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

If yes, please fill out the appropriate information below.

| Name of Entity | Grant? | Personal Fees? | Non-Financial Support? | Other? | Comments |
|------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|---|
| Globus Medical | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Royalties, Stock Ownership, Consulting, Scientific Advisory Board |
| Depuy Synthes | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Royalties |
| AO North America | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Fellowship Support |

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Dr. Theodore reports other from Globus Medical, other from Depuy Synthes, other from AO North America, outside the submitted work.

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Section 1. Identifying Information

| | | |
|---|-----------------------------------|---|
| 1. Given Name (First Name) Daniel M. | 2. Surname (Last Name) Sciubba | 3. Date 21-October-2018 |
| 4. Are you the corresponding author? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Corresponding Author's Name Ethan Cottrill |
| 5. Manuscript Title Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review | | |
| 6. Manuscript Identifying Number (if you know it) | | |

Section 2. The Work Under Consideration for Publication

Did you or your institution **at any time** receive payment or services from a third party (government, commercial, private foundation, etc.) for any aspect of the submitted work (including but not limited to grants, data monitoring board, study design, manuscript preparation, statistical analysis, etc.)?

Are there any relevant conflicts of interest? ☐ Yes ☒ No

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| Depuy Synthes | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Consulting, Travel |
| Globus Medical | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Consulting, Speaking, Travel |
| K2M | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Consulting, Travel |
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| Medtronic | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Consulting, Speaking, Travel |
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Dr. Sciubba reports other from Baxter, other from Depuy Synthes, other from Globus Medical, other from K2M, other from Medical Device Business Services, other from Medtronic, other from NUVASIVE, other from Stryker, other from Synthes, other from Orthofix, outside the submitted work.

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Section 1. Identifying Information

| | | |
|---|----------------------------------|---|
| 1. Given Name (First Name) Timothy | 2. Surname (Last Name) Witham | 3. Date 21-October-2018 |
| 4. Are you the corresponding author? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Corresponding Author's Name Ethan Cottrill |
| 5. Manuscript Title Investigational Growth Factors Utilized in Animal Models of Spinal Fusion: Systematic Review | | |
| 6. Manuscript Identifying Number (if you know it) | | |

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Section 6. Disclosure Statement

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Dr. Witham reports grants from Eli Lilly and Company, grants from Gordon & Marilyn Macklin Foundation, during the conduct of the study.

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