# Summary of Interests

## Company or Organization

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<th>Entity</th>
<th>Type</th>
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<td>General Electric</td>
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<tr>
<td>ISMRM</td>
<td>Fiduciary Officer</td>
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<td></td>
<td>Official Title: Member Board of Directors</td>
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<tr>
<td>Subtle Medical</td>
<td>Other Business Ownership</td>
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*Form of Business Description: co-founder, equity*

## Intellectual Property

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<td>Other Intellectual Property - royalties</td>
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<tr>
<td>Description: royalties</td>
<td>Type: royalties</td>
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<td>Patent - Multiple deep learning patents</td>
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<tr>
<td>Description: Multiple deep learning patents</td>
<td>Patent Status: Issued</td>
<td>Patent Holder: Current Institution</td>
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**Licensees:**

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<td>Subtle Medical</td>
<td>Subtle Medical</td>
<td>05/01/2018</td>
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## Additional Questions

1. **Are you the corresponding author?**
   
   No.

2. **What is the Manuscript Title?**
   
   Ethical Considerations and Fairness in the Use of Artificial Intelligence for Neuroradiology
3. What is the Manuscript Identifying Number (if you know it)?

4. Please select which of the following apply to each relationship or activity:
   a. Other Professional Activities - Other Biogen, Inc.
      Neither
   b. Fiduciary Officer ISMRM
      Neither
   c. Grant / Contract General Electric
      The relationship is outside the work reported in the manuscript but topically related and within the past 36 months
   d. Other Business Ownership Subtle Medical
      The relationship is outside the work reported in the manuscript but topically related and within the past 36 months
   e. Other Intellectual Property royalties
      Neither
   f. Patent Multiple deep learning patents
      The relationship is outside the work reported in the manuscript but topically related and within the past 36 months

5. I confirm I have disclosed all direct support for the present manuscript (e.g. funding, provision of study materials, medical writing, article processing charges, etc.) There is no time limit for this item.
   Yes

6. Please indicate below whether in the past 36 months you have had any of the following interests that are topically related to the work reported in the manuscript.
   a. Employment (If you need to add an interest, return to the previous step and select “Employment”)
      No, I have no relevant interests of this type
   b. Grants or contracts for research (If you need to add an interest, return to the previous step and select “Grant/Contract”)
      No, I have no relevant interests of this type
   c. Payment for consulting (If you need to add an interest, return to the previous step and select “Independent Contractor”)
      No, I have no relevant interests of this type
   d. Payments or honoraria for lectures, presentations, speakers bureaus, or educational events (If you need to add an interest, return to the previous step and select “Independent Contractor” and include the correct information under "Consultant")
      No, I have no relevant interests of this type
   e. Payment for service on an advisory board (If you need to add an interest, return to the previous step and select “Independent Contractor,” and choose “Other”)
      No, I have no relevant interests of this type
   f. Payment for participation Data and safety monitoring board (If you need to add an interest, return to the previous step and select “Independent Contractor”)
      No, I have no relevant interests of this type
   g. Expert witness testimony (If you need to add an interest, return to the previous step and select “Independent Contractor”)
      No, I have no relevant interests of this type
   h. Royalties from Patents, Trademarks, Copyrights or other intellectual property (If you need to add an interest, return to the previous step and select the appropriate interest type)
      No, I have no relevant interests of this type
i. Patents planned, issued, or pending, whether or not you receive royalties (If you need to add an interest, return to the previous step and select “Patents”)
   Yes, as disclosed above

j. Fiduciary Officer or Other Board Membership (If you need to add an interest, return to the previous step and select “Fiduciary Officer”)
   Yes, as disclosed above

k. Stock or stock options (If you need to add an interest, return to the previous step and select the appropriate interest type)
   Yes, as disclosed above

l. Support for attending meetings or other travel (If you need to add an interest, return to the previous step and select “Travel”)
   No, I have no relevant interests of this type

7. Was any individual paid to provide professional writing assistance with this manuscript?
   No.

8. Have you or your institution received equipment, materials, drugs, or services in direct support of the work in the manuscript (without time limit) not disclosed above?
   No.

9. In the past 36 months, have you received equipment, materials, drugs, medical writing, gifts or other services from for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript not disclosed above?
   No.

10. Are there other financial or non-financial interests that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work not disclosed above.
    No.

Certification
I certify that I have answered every question and have not altered the wording of any of the questions on this form.
Summary of Interests

I do not have any interests to disclose at this time.

Additional Questions

1. Are you the corresponding author?
   Yes.

2. What is the Manuscript Title?
   Deep Learning Generated Synthetic MR STIR Spine Images are Superior in Image Quality and Diagnostically Equivalent to Conventional STIR: A Multicenter, Multi-reader Trial

3. What is the Manuscript Identifying Number (if you know it)?

4. Please select which of the following apply to each relationship or activity:
   You are not disclosing any interests to this organization.

5. I confirm I have disclosed all direct support for the present manuscript (e.g. funding, provision of study materials, medical writing, article processing charges, etc.) There is no time limit for this item.
   Yes

6. Please indicate below whether in the past 36 months you have had any of the following interests that are topically related to the work reported in the manuscript.

   a. Employment (If you need to add an interest, return to the previous step and select “Employment”)
      No, I have no relevant interests of this type

   b. Grants or contracts for research (If you need to add an interest, return to the previous step and select “Grant/Contract”)
      No, I have no relevant interests of this type

   c. Payment for consulting (If you need to add an interest, return to the previous step and select “Independent Contractor”)
      No, I have no relevant interests of this type

   d. Payments or honoraria for lectures, presentations, speakers bureaus, or educational events (If you need to add an interest, return to the previous step and select “Independent Contractor” and include the correct information under “Consultant”)
      No, I have no relevant interests of this type

   e. Payment for service on an advisory board (If you need to add an interest, return to the previous step and select “Independent Contractor,” and choose “Other”)
      No, I have no relevant interests of this type

   f. Payment for participation Data and safety monitoring board (If you need to add an interest, return to the previous step and select “Independent Contractor”)
      No, I have no relevant interests of this type
g. Expert witness testimony (If you need to add an interest, return to the previous step and select “Independent Contractor”)

No, I have no relevant interests of this type

h. Royalties from Patents, Trademarks, Copyrights or other intellectual property (If you need to add an interest, return to the previous step and select the appropriate interest type)

No, I have no relevant interests of this type

i. Patents planned, issued, or pending, whether or not you receive royalties (If you need to add an interest, return to the previous step and select “Patents”)

No, I have no relevant interests of this type

j. Fiduciary Officer or Other Board Membership (If you need to add an interest, return to the previous step and select “Fiduciary Officer”)

No, I have no relevant interests of this type

k. Stock or stock options (If you need to add an interest, return to the previous step and select the appropriate interest type)

No, I have no relevant interests of this type

l. Support for attending meetings or other travel (If you need to add an interest, return to the previous step and select “Travel”)

No, I have no relevant interests of this type

7. Was any individual paid to provide professional writing assistance with this manuscript?

No.

8. Have you or your institution received equipment, materials, drugs, or services in direct support of the work in the manuscript (without time limit) not disclosed above?

No.

9. In the past 36 months, have you received equipment, materials, drugs, medical writing, gifts or other services from for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript not disclosed above?

No.

10. Are there other financial or non-financial interests that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work not disclosed above.

No.

Certification

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<tr>
<td>Subtle Medical, Magnetic Insight, Icometrix, EMTensor</td>
<td>Consultant</td>
<td>Yes</td>
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<tr>
<td>The University of Texas MD Anderson Cancer Center</td>
<td>Employment</td>
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</tbody>
</table>

Title: Professor and Chair of Neuroradiology

Additional Questions

1. Are you the corresponding author?
   No.

2. What is the Manuscript Title?
   Predictive Value of Imaging Parameters for Functional Outcome in Anterior Circulation Large Vessel Occlusion Acute Ischemic Stroke: A Machine Learning Study

3. What is the Manuscript Identifying Number (if you know it)?

4. Please select which of the following apply to each relationship or activity:
   a. Other Professional Activities - Consultant Subtle Medical, Magnetic Insight, Icometrix, EMTensor
      The relationship is in direct support of the work reported in the manuscript anytime from when the work was conceived
   b. Employment The University of Texas MD Anderson Cancer Center
      Neither

5. I confirm I have disclosed all direct support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) There is no time limit for this item.
   Yes

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      No, I have no relevant interests of this type
   c. Payment for consulting (If you need to add an interest, return to the previous step and select "Independent Contractor")
Yes, as disclosed above

d. Payments or honoraria for lectures, presentations, speakers bureaus, or educational events (If you need to add an interest, return to the previous step and select “Independent Contractor” and include the correct information under “Consultant”)

No, I have no relevant interests of this type

e. Payment for service on an advisory board (If you need to add an interest, return to the previous step and select “Independent Contractor,” and choose “Other”)

Yes, as disclosed above

f. Payment for participation on a Data and safety monitoring board (If you need to add an interest, return to the previous step and select “Independent Contractor”)

No, I have no relevant interests of this type

g. Expert witness testimony (If you need to add an interest, return to the previous step and select “Independent Contractor”)

No, I have no relevant interests of this type

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No, I have no relevant interests of this type

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No, I have no relevant interests of this type

j. Fiduciary Officer or Other Board Membership (If you need to add an interest, return to the previous step and select “Fiduciary Officer”)

No, I have no relevant interests of this type

k. Stock or stock options (If you need to add an interest, return to the previous step and select the appropriate interest type)

No, I have no relevant interests of this type

l. Support for attending meetings or other travel (If you need to add an interest, return to the previous step and select “Travel”)

No, I have no relevant interests of this type

7. Was any individual paid to provide professional writing assistance with this manuscript?

No.

8. Have you or your institution received equipment, materials, drugs, or services in direct support of the work in the manuscript (without time limit) not disclosed above?

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<tr>
<td>Subtle Medical</td>
<td>Employment</td>
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Title: Machine Learning Scientist - Lead

Additional Questions

1. **Are you the corresponding author?**
   No.

2. **What is the Manuscript Title?**
   Deep Learning Generated Synthetic MR STIR Spine Images are Superior in Image Quality and Diagnostically Equivalent to Conventional STIR- A Multicenter, Multi-reader Trial.

3. **What is the Manuscript Identifying Number (if you know it)?**

4. **Please select which of the following apply to each relationship or activity:**
   a. **Employment** Subtle Medical
      The relationship is in direct support of the work reported in the manuscript anytime from when the work was conceived

5. **I confirm I have disclosed all direct support for the present manuscript (e.g. funding, provision of study materials, medical writing, article processing charges, etc.) There is no time limit for this item.**
   Yes

6. **Please indicate below whether in the past 36 months you have had any of the following interests that are topically related to the work reported in the manuscript.**
   a. **Employment** (If you need to add an interest, return to the previous step and select “Employment”)
      Yes, as disclosed above

   b. **Grants or contracts for research** (If you need to add an interest, return to the previous step and select “Grant/Contract”)
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   c. **Payment for consulting** (If you need to add an interest, return to the previous step and select “Independent Contractor”)
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   d. **Payments or honoraria for lectures, presentations, speakers bureaus, or educational events** (If you need to add an interest, return to the previous step and select "Independent Contractor" and include the correct information under "Consultant")
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f. Payment for participation Data and safety monitoring board (If you need to add an interest, return to the previous step and select “Independent Contractor”)
   No, I have no relevant interests of this type
g. Expert witness testimony (If you need to add an interest, return to the previous step and select “Independent Contractor”)
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i. Patents planned, issued, or pending, whether or not you receive royalties (If you need to add an interest, return to the previous step and select “Patents”)
   Yes, as disclosed above
j. Fiduciary Officer or Other Board Membership (If you need to add an interest, return to the previous step and select “Fiduciary Officer”)
   No, I have no relevant interests of this type
k. Stock or stock options (If you need to add an interest, return to the previous step and select the appropriate interest type)
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l. Support for attending meetings or other travel (If you need to add an interest, return to the previous step and select “Travel”)
   No, I have no relevant interests of this type

7. Was any individual paid to provide professional writing assistance with this manuscript?
   No.

8. Have you or your institution received equipment, materials, drugs, or services in direct support of the work in the manuscript (without time limit) not disclosed above?
   No.

9. In the past 36 months, have you received equipment, materials, drugs, medical writing, gifts or other services from for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript not disclosed above?
   No.

10. Are there other financial or non-financial interests that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work not disclosed above?
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Certification
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<td>Stock Option</td>
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Category: Consultant

Additional Questions

1. Are you the corresponding author?
   No.

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   Deep Learning Generated Synthetic MR STIR Spine Images are Superior in Image Quality and Diagnostically Equivalent to Conventional STIR- A Multicenter, Multi-reader Trial

3. What is the Manuscript Identifying Number (if you know it)?

4. Please select which of the following apply to each relationship or activity:
   a. Other Professional Activities - Consultant Subtle Medical
      The relationship is outside the work reported in the manuscript but topically related and within the past 36 months
   b. Stock Option Subtle Medical
      The relationship is outside the work reported in the manuscript but topically related and within the past 36 months

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   b. Grants or contracts for research (If you need to add an interest, return to the previous step and select "Grant/Contract")
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   c. Payment for consulting (If you need to add an interest, return to the previous step and select "Independent Contractor")
      Yes, as disclosed above
d. Payments or honoraria for lectures, presentations, speakers bureaus, or educational events (If you need to add an interest, return to the previous step and select "Independent Contractor" and include the correct information under "Consultant")
   Yes, as disclosed above

e. Payment for service on an advisory board (If you need to add an interest, return to the previous step and select "Independent Contractor," and choose “Other")
   Yes, as disclosed above

f. Payment for participation Data and safety monitoring board (If you need to add an interest, return to the previous step and select “Independent Contractor”)
   No, I have no relevant interests of this type

g. Expert witness testimony (If you need to add an interest, return to the previous step and select “Independent Contractor”)
   No, I have no relevant interests of this type

h. Royalties from Patents, Trademarks, Copyrights or other intellectual property (If you need to add an interest, return to the previous step and select the appropriate interest type)
   No, I have no relevant interests of this type

i. Patents planned, issued, or pending, whether or not you receive royalties (If you need to add an interest, return to the previous step and select “Patents”)
   No, I have no relevant interests of this type

j. Fiduciary Officer or Other Board Membership (If you need to add an interest, return to the previous step and select “Fiduciary Officer”)
   No, I have no relevant interests of this type

k. Stock or stock options (If you need to add an interest, return to the previous step and select the appropriate interest type)
   Yes, as disclosed above

l. Support for attending meetings or other travel (If you need to add an interest, return to the previous step and select “Travel”)
   No, I have no relevant interests of this type

7. Was any individual paid to provide professional writing assistance with this manuscript?
   No.

8. Have you or your institution received equipment, materials, drugs, or services in direct support of the work in the manuscript (without time limit) not disclosed above?
   No.

9. In the past 36 months, have you received equipment, materials, drugs, medical writing, gifts or other services from for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript not disclosed above?
   No.

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<td>Consultant</td>
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<td>Siemens Medical Solutions USA, Inc.</td>
<td>Consultant</td>
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<td>subtle medical</td>
<td>Consultant</td>
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Additional Questions

1. Are you the corresponding author?
   Yes.

2. What is the Manuscript Title?
   Deep Learning Generated Synthetic MR STIR Spine Images are Superior in Image Quality and Diagnostically Equivalent to Conventional STIR- A Multicenter, Multi-reader Trial

3. What is the Manuscript Identifying Number (if you know it)?
   AJNR-23-00207

4. Please select which of the following apply to each relationship or activity:
   a. Other Professional Activities - Consultant GE Healthcare
Neither

b. Other Professional Activities - Consultant GUERBET LLC

Neither

c. Other Professional Activities - Consultant Icometrix

Neither

d. Other Professional Activities - Consultant Philips Electronics North America Corporation

Neither

e. Other Professional Activities - Consultant Siemens Medical Solutions USA, Inc.

Neither

f. Other Professional Activities - Consultant subtle medical

The relationship is in direct support of the work reported in the manuscript anytime from when the work was conceived

5. I confirm I have disclosed all direct support for the present manuscript (e.g. funding, provision of study materials, medical writing, article processing charges, etc.) There is no time limit for this item.

Yes

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a. Employment (If you need to add an interest, return to the previous step and select “Employment”)

Yes, as disclosed above

b. Grants or contracts for research (If you need to add an interest, return to the previous step and select “Grant/Contract”)

Yes, as disclosed above

c. Payment for consulting (If you need to add an interest, return to the previous step and select “Independent Contractor”)

Yes, as disclosed above

d. Payments or honoraria for lectures, presentations, speakers bureaus, or educational events (If you need to add an interest, return to the previous step and select “Independent Contractor,” and include the correct information under “Consultant”)

Yes, as disclosed above

e. Payment for service on an advisory board (If you need to add an interest, return to the previous step and select “Independent Contractor,” and choose “Other”)

Yes, as disclosed above

f. Payment for participation Data and safety monitoring board (If you need to add an interest, return to the previous step and select “Independent Contractor”)

No, I have no relevant interests of this type

g. Expert witness testimony (If you need to add an interest, return to the previous step and select “Independent Contractor”)

No, I have no relevant interests of this type

h. Royalties from Patents, Trademarks, Copyrights or other intellectual property (If you need to add an interest, return to the previous step and select the appropriate interest type)

No, I have no relevant interests of this type

i. Patents planned, issued, or pending, whether or not you receive royalties (If you need to add an interest, return to the previous step and select “Patents”)

No, I have no relevant interests of this type

j. Fiduciary Officer or Other Board Membership (If you need to add an interest, return to the previous step and select “Fiduciary Officer”)

No, I have no relevant interests of this type
No, I have no relevant interests of this type

k. Stock or stock options (If you need to add an interest, return to the previous step and select the appropriate interest type)

Yes, as disclosed above

l. Support for attending meetings or other travel (If you need to add an interest, return to the previous step and select “Travel”)

Yes, as disclosed above

7. Was any individual paid to provide professional writing assistance with this manuscript?

No.

8. Have you or your institution received equipment, materials, drugs, or services in direct support of the work in the manuscript (without time limit) not disclosed above?

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No.

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<tbody>
<tr>
<td>Ajit shankaranarayanan</td>
<td>Employment</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Title: Chief Product Officer

Additional Questions

1. Are you the corresponding author?
   No.

2. What is the Manuscript Title?
   Deep Learning Generated Synthetic MR STIR Spine Images are Superior in Image Quality and Diagnostically Equivalent to Conventional STIR- A Multicenter, Multi-reader Trial.

3. What is the Manuscript Identifying Number (if you know it)?

4. Please select which of the following apply to each relationship or activity:
   a. Employment Ajit Shankaranarayanan
      The relationship is in direct support of the work reported in the manuscript anytime from when the work was conceived.
   5. I confirm I have disclosed all direct support for the present manuscript (e.g. funding, provision of study materials, medical writing, article processing charges, etc.) There is no time limit for this item.
      Yes.

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      No, I have no relevant interests of this type.
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   d. Payments or honoraria for lectures, presentations, speakers bureaus, or educational events (If you need to add an interest, return to the previous step and select “Independent Contractor” and include the correct information under “Consultant”)
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7. Was any individual paid to provide professional writing assistance with this manuscript?

No.

8. Have you or your institution received equipment, materials, drugs, or services in direct support of the work in the manuscript (without time limit) not disclosed above?

No.

9. In the past 36 months, have you received equipment, materials, drugs, medical writing, gifts or other services from for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript not disclosed above?

No.

10. Are there other financial or non-financial interests that readers could perceive to have influenced, or that give the appearance of potentially influencing, what you wrote in the submitted work not disclosed above?

No.

Certification

I certify that I have answered every question and have not altered the wording of any of the questions on this form.
Summary of Interests

Company or Organization

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<tr>
<th>Entity</th>
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<tr>
<td>Subtle Medical</td>
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Title: Head of Research and Development

Additional Questions

1. Are you the corresponding author?
   No.

2. What is the Manuscript Title?
   Deep Learning Generated Synthetic MR STIR Spine Images are Superior in Image Quality and Diagnostically Equivalent to Conventional STIR- A Multicenter, Multi-reader Trial

3. What is the Manuscript Identifying Number (if you know it)?

4. Please select which of the following apply to each relationship or activity:
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      The relationship is in direct support of the work reported in the manuscript anytime from when the work was conceived

5. I confirm I have disclosed all direct support for the present manuscript (e.g. funding, provision of study materials, medical writing, article processing charges, etc.) There is no time limit for this item.
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   b. Grants or contracts for research (If you need to add an interest, return to the previous step and select “Grant/Contract”)
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   c. Payment for consulting (If you need to add an interest, return to the previous step and select “Independent Contractor”)
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