Date:Jan 5, 2023
Your Name:Noah Bonnheim
Manuscript Title: Deep-learning-based biomarker of spinal cartilage endplate health using ultra-short echo time
magnetic resonance imaging
Manuscript number (if known):

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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		Name all entities with whom you have this relationship or indicate none (add rows as needed)	Specifications/Comments (e.g., if payments were made to you or to your institution)
		Time frame: Since the initial	planning of the work
1	All support for the present manuscript (e.g., funding, provision of study materials, medical writing, article processing charges, etc.) No time limit for this item.	XNone	
		Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	XNone	
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	XNone	
	testimony		
7	Support for attending meetings and/or travel	XNone	
8	Patents planned, issued or	XNone	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society,		
	committee or advocacy group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	XNone	
	materials, drugs, medical		
	writing, gifts or other		
12	services Other financial or non-	V None	
13	financial interests	XNone	
	illialiciai illielesis		
Ple	ease summarize the above o	onflict of interest in the fol	lowing box:
_			
	None		

Date:Jan 5, 2023
Your Name:Linshanshan Wang
Manuscript Title: Deep-learning-based biomarker of spinal cartilage endplate health using ultra-short echo time
magnetic resonance imaging
Manuscript number (if known):

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3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	XNone	
	testimony		
7	Support for attending meetings and/or travel	XNone	
8	Patents planned, issued or	XNone	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society,		
	committee or advocacy group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	XNone	
	materials, drugs, medical		
	writing, gifts or other		
12	services Other financial or non-	V None	
13	financial interests	XNone	
	illialiciai illielesis		
Ple	ease summarize the above o	onflict of interest in the fol	lowing box:
_			
	None		

Date:Jan 8, 2023
Your Name:Ann Lazar
Manuscript Title: Deep-learning-based biomarker of spinal cartilage endplate health using ultra-short echo time
magnetic resonance imaging
Manuscript number (if known):

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		Time frame: Since the initia	planning of the work
1	All support for the present	XNone	
	manuscript (e.g., funding,		
	provision of study materials,		
	medical writing, article		
	processing charges, etc.)		
	No time limit for this item.		
		Time frame: past	36 months
2	Grants or contracts from	XNone	
	any entity (if not indicated		
	in item #1 above).		
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	XNone	
	testimony		
7	Support for attending meetings and/or travel	XNone	
8	Patents planned, issued or	XNone	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society,		
	committee or advocacy group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	XNone	
	materials, drugs, medical		
	writing, gifts or other		
12	services Other financial or non-	V None	
13	financial interests	XNone	
	illialiciai illielesis		
Ple	ease summarize the above o	onflict of interest in the fol	lowing box:
_			
	None		

Date:Jan 5, 2023
Your Name:Ravi Chachad
Manuscript Title: Deep-learning-based biomarker of spinal cartilage endplate health using ultra-short echo time
magnetic resonance imaging
Manuscript number (if known):

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		Time frame: past	36 months
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3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	XNone	
	testimony		
7	Support for attending meetings and/or travel	XNone	
8	Patents planned, issued or	XNone	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society,		
	committee or advocacy group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	XNone	
	materials, drugs, medical		
	writing, gifts or other		
12	services Other financial or non-	V None	
13	financial interests	XNone	
	illialiciai illielesis		
Ple	ease summarize the above o	onflict of interest in the fol	lowing box:
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	None		

Date:Jan 5, 2023
Your Name:Jiamin Zhou
Manuscript Title: Deep-learning-based biomarker of spinal cartilage endplate health using ultra-short echo time
magnetic resonance imaging
Manuscript number (if known):

In the interest of transparency, we ask you to disclose all relationships/activities/interests listed below that are related to the content of your manuscript. "Related" means any relation with for-profit or not-for-profit third parties whose interests may be affected by the content of the manuscript. Disclosure represents a commitment to transparency and does not necessarily indicate a bias. If you are in doubt about whether to list a relationship/activity/interest, it is preferable that you do so.

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3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	XNone	
	testimony		
7	Support for attending meetings and/or travel	XNone	
8	Patents planned, issued or	XNone	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society,		
	committee or advocacy group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	XNone	
	materials, drugs, medical		
	writing, gifts or other		
12	services Other financial or non-	V None	
13	financial interests	XNone	
	illialiciai illielesis		
Ple	ease summarize the above o	onflict of interest in the fol	lowing box:
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	None		

Date:Jan 8, 2023
Your Name:Xiaojie Gou
Manuscript Title: Deep-learning-based biomarker of spinal cartilage endplate health using ultra-short echo time
magnetic resonance imaging
Manuscript number (if known):

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		Time frame: past	36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	XNone	
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	XNone	
	testimony		
7	Support for attending meetings and/or travel	XNone	
	eeage aa, e. a.a.e.		
8	Patents planned, issued or	XNone	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society,		
	committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	XNone	
	materials, drugs, medical		
	writing, gifts or other		
40	services		
13	Other financial or non-	XNone	
	financial interests		
Ple	Please summarize the above conflict of interest in the following box:		
	None		

Date:Jan 8, 2023
Your Name:Conor O'Neill
Manuscript Title: Deep-learning-based biomarker of spinal cartilage endplate health using ultra-short echo time
magnetic resonance imaging
Manuscript number (if known):

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3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	XNone	
	testimony		
7	Support for attending meetings and/or travel	XNone	
	eeage aa, e. a.a.e.		
8	Patents planned, issued or	XNone	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society,		
	committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	XNone	
	materials, drugs, medical		
	writing, gifts or other		
40	services		
13	Other financial or non-	XNone	
	financial interests		
Ple	Please summarize the above conflict of interest in the following box:		
	None		

Date:Jan 5, 2023
Your Name:Joel Castellanos
Manuscript Title: Deep-learning-based biomarker of spinal cartilage endplate health using ultra-short echo tim
magnetic resonance imaging
Manuscript number (if known):

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	lectures, presentations,				
	speakers bureaus,				
	manuscript writing or				
	educational events				
6	Payment for expert	XNone			
	testimony				
7	Support for attending	XNone			
	meetings and/or travel				
8	Patents planned, issued or	XNone			
	pending				
9	Participation on a Data	XNone			
	Safety Monitoring Board or				
	Advisory Board				
10	Leadership or fiduciary role	XNone			
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	committee or advocacy				
	group, paid or unpaid				
11	Stock or stock options	XNone			
12	Receipt of equipment,	XNone			
	materials, drugs, medical				
	writing, gifts or other				
12	Services	V None			
13	Other financial or non- financial interests	XNone			
	illianciai interests				
Dla	Please summarize the above conflict of interest in the following box:				
FIC	ricase summanze the above commet of interest in the following box.				
	None related to the tonic of this paper				
	None related to the topic of this paper.				

Date:	1/5/2023	
Your Name:	Jiang Du	
Manuscript Title:_	Deep-learning-based b	iomarker of spinal cartilage endplate health using ultra-short echo time
magnetic resonan	ce imaging	
Manuscript numb	er (if known):	

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1	All support for the present	XNone	
	manuscript (e.g., funding,		
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	medical writing, article		
	processing charges, etc.) No time limit for this item.		
	No time illuit for this item.		
		- : .	
		Time frame: past	36 months
2	Grants or contracts from	XNone	
	any entity (if not indicated		
	in item #1 above).		
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

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5	*	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	XNone	
	testimony		
7	Support for attending	XNone	
	meetings and/or travel		
8	Patents planned, issued or	X None	
	pending		
9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society,		
	committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	XNone	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		
	ease summarize the above conflict of interest.	onflict of interest in the fo	llowing box:

Date:	1/5/2023	
Your Name:	Hyungseok Jang	
Manuscript Title:	Deep-learning-based biomarke	r of spinal cartilage endplate health using ultra-short echo time
magnetic resonance	e imaging	
Manuscript number	r (if known):	

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	_	Time frame: Since the initial	planning of the work
1	All support for the present	XNone	
	manuscript (e.g., funding,		
	provision of study materials,		
	medical writing, article		
	processing charges, etc.) No time limit for this item.		
	No time limit for this item.		
		Time frame: past	36 months
2	Grants or contracts from	XNone	
	any entity (if not indicated		
	in item #1 above).		
3	Royalties or licenses	XNone	
4	Consulting fees	XNone	

			1
5	Payment or honoraria for	XNone	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	XNone	
	testimony		
7	Support for attending	X None	
	meetings and/or travel		
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8	Patents planned, issued or	XNone	
	pending		
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9	Participation on a Data	XNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	XNone	
	in other board, society,		
	committee or advocacy		
	group, paid or unpaid		
11	Stock or stock options	XNone	
12	Receipt of equipment,	XNone	
	materials, drugs, medical		
	writing, gifts or other		
	services		
13	Other financial or non-	XNone	
	financial interests		
Ple	ease summarize the above co	onflict of interest in the fo	llowing box:
_			
	No conflict of interest.		

		ICMJE DISC	LOSURE FORM
Date: Jan	8, 2023		
Your Name:R			
Manuscript Title	: Deep-lea	rning-based biomarker of	spinal cartilage endplate health using ultra-short echo
magnetic resona	nce imaging_		
Manuscript num	ber (if known):	
related to the co parties whose in to transparency	ntent of your terests may b and does not	manuscript. "Related" me e affected by the content o	relationships/activities/interests listed below that are ans any relation with for-profit or not-for-profit third of the manuscript. Disclosure represents a commitmen of If you are in doubt about whether to list a
The following qu manuscript only		to the author's relationshi	ps/activities/interests as they relate to the <u>current</u>
to the epidemiol	ogy of hypert		defined broadly. For example, if your manuscript pert all relationships with manufacturers of antihypertens the manuscript.
	•	pport for the work reporte is the past 36 months.	d in this manuscript without time limit. For all other i
		Name all entities with	Specifications/Comments
		whom you have this	(e.g., if payments were made to you or to your
		relationship or indicate	institution)
		none (add rows as	
		needed)	
		Time frame: Since the initia	planning of the work
1 All support for	the present	None	

		whom you have this relationship or indicate none (add rows as needed)	(e.g., if payments were made to you or to your institution)
		Time frame: Since the initia	al planning of the work
1	All support for the present manuscript (e.g., funding,	None	
	provision of study materials, medical writing, article processing charges, etc.)	NIH/NIAMS	Grant made to institution
	No time limit for this item.		
		Time frame: pas	t 36 months
2	Grants or contracts from any entity (if not indicated in item #1 above).	_xNone	
3	Royalties or licenses	x_None	
4	Consulting fees	x_None	

5	Payment or honoraria for	x None	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	xNone	
	testimony		
7	Support for attending meetings and/or travel	_xNone	
8	Patents planned, issued or	xNone	
	pending		
9	Participation on a Data	_xNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	xNone	
	in other board, society,		
	committee or advocacy		
11	group, paid or unpaid	Name	
11	Stock or stock options	x_None	
12	Receipt of equipment,	x None	
12	materials, drugs, medical	XNOTIC	
	writing, gifts or other		
	services		
13	Other financial or non-	x_None	
	financial interests		
		•	
Dlم	ase summarize the above o	onflict of interest in the f	ollowing hove

The study was funded by a grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

		ICMJE DISC	CLOSURE FORM	
Da	te:Jan 5, 2023			
	ur Name: Aaron Fields			
		rning-based biomarker of	spinal cartilage endplate health using ultra-short echo tim	ıe
	gnetic resonance imaging		,	
	nuscript number (if known			
rel pa to	ated to the content of your rties whose interests may b	manuscript. "Related" me e affected by the content necessarily indicate a bias	Il relationships/activities/interests listed below that are eans any relation with for-profit or not-for-profit third of the manuscript. Disclosure represents a commitment is. If you are in doubt about whether to list a o so.	
	e following questions apply inuscript only.	to the author's relationsh	nips/activities/interests as they relate to the <u>current</u>	
to me	the epidemiology of hypertedication, even if that medic	ension, you should declar cation is not mentioned in	·	
	e time frame for disclosure i	• •	ed in this manuscript without time limit. For all other iten	15,
		Name all entities with	Specifications/Comments	
		whom you have this	(e.g., if payments were made to you or to your	
		relationship or indicate	institution)	
		none (add rows as	,	
		needed)		
		Time frame: Since the initia	al planning of the work	
	All support for the present	None		
	manuscript (e.g., funding,			
	provision of study materials,	NIH/NIAMS	Grant made to institution	
	medical writing, article			
	processing charges, etc.) No time limit for this item.			
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Time frame: past 36 months

_x___None

_x_None

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Grants or contracts from

in item #1 above).
Royalties or licenses

Consulting fees

any entity (if not indicated

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5	Payment or honoraria for	x None	
	lectures, presentations,		
	speakers bureaus,		
	manuscript writing or		
	educational events		
6	Payment for expert	xNone	
	testimony		
7	Support for attending meetings and/or travel	_xNone	
8	Patents planned, issued or	xNone	
	pending		
9	Participation on a Data	_xNone	
	Safety Monitoring Board or		
	Advisory Board		
10	Leadership or fiduciary role	xNone	
	in other board, society,		
	committee or advocacy		
11	group, paid or unpaid	Name	
11	Stock or stock options	x_None	
12	Receipt of equipment,	x None	
12	materials, drugs, medical	XNOTIC	
	writing, gifts or other		
	services		
13	Other financial or non-	x_None	
	financial interests		
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Dlم	ase summarize the above o	onflict of interest in the f	ollowing hove

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