

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.

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



Section 1. Ider	ntifying Informa	ation					
1. Given Name (First Nam Carlos	ie)	2. Surnar Higuera	ne (Last Nar	ne)		3. Date 08-November-2019	
4. Are you the correspon	ding author?	Yes	√ No	Correspond Kurt Spind	_	r's Name	
5. Manuscript Title Value in Research: Ach	ieving Validated C)utcomes	Measurem	ent While Mitiga	ting Follo	w-Up Cost	
6. Manuscript Identifying	Number (if you kno	ow it)					
Section 2. The	Work Under Co	nsidera	tion for P	ublication			
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Section 3. Rele	vant financial a	ctivities	outside	the submitted	work.		
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Name of Entity		Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments	
Stryker		✓		Барроге			
KCI		▼	✓			Consulting fees	
Ferring Pharmaceuticals		✓				-	
CD Diagnostics		✓					
Zimmer Biomet		✓	✓			Consulting fees	
ЗМ		\checkmark					
OREF		✓					
Cempra		✓					



Name of Entity	Grant	sonal Non-Finances Support?	Other •	Comments	
Orthofix	✓				
Cymedica	✓				
Pacira	✓				
Myoscience	✓				
Pfizer		✓		Consulting fees	
Orthogenics	✓				
Section 4. Intellectual Propert	y Patents	& Copyrights			
Do you have any patents, whether plann	ed, pending c	r issued, broadly rel	evant to the	work? Yes 🗸 No	
Section 5. Relationships not c	overed abo	ve			
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Dr. Higuera reports grants from Stryker, grants and personal fees from KCI, grants from Ferring Pharmaceuticals, grants from CD Diagnostics, grants and personal fees from Zimmer Biomet, grants from 3M, grants from OREF, grants from Cempra, grants from Orthofix, grants from Cymedica, grants from Pacira, grants from Myoscience, personal fees from Pfizer, grants from Orthogenics, outside the submitted work; .					



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Leo 1



Section 1. Identifying Infor	mation	
1. Given Name (First Name) Brian	2. Surname (Last Name) Leo	3. Date 03-April-2019
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Kurt P. Spindler
5. Manuscript Title Value in Research: Achieving Validate	d Outcomes Measurement V	Vhile Mitigating Follow-Up Cost
6. Manuscript Identifying Number (if you	know it)	
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Section 2. The Work Under	Consideration for Public	ation
	ng but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ta monitoring board, study design, manuscript preparation,
Section 3. Relevant financia	l activities outside the s	ubmitted work.
of compensation) with entities as desc	eribed in the instructions. Us eport relationships that were rest? Yes No	ether you have financial relationships (regardless of amount e one line for each entity; add as many lines as you need by e present during the 36 months prior to publication .
Name of Entity	Grant? Personal Non	o-Financial Other? Comments
Zimmer Biomet		Consultant
Section 4. Intellectual Prope	erty Patents & Copyrig	hts
Do you have any patents, whether pla	nned, pending or issued, bro	oadly relevant to the work?

Leo 2



Section 5. Polationships not sovered above
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Dr. Leo reports personal fees from Zimmer Biomet, outside the submitted work; .

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Murray 1



Section 1. Identifying Ir	nformation					
Given Name (First Name) Trevor	2. Surname (Last Name) Murray	3. Date 03-April-2019				
4. Are you the corresponding author	? Yes ✓ No	Corresponding Author's Name Kurt P. Spindler				
5. Manuscript Title Value in Research: Achieving Valid	Manuscript Title lue in Research: Achieving Validated Outcomes Measurement While Mitigating Follow-L					
6. Manuscript Identifying Number (if	you know it)					
Section 2. The Work Und	der Consideration for Public	ation				
	cluding but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ta monitoring board, study design, manuscript preparation,				
Section 3. Relevant fina	Section 3. Relevant financial activities outside the submitted work.					
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Murray 2



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Seitz 1



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Seitz 2



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Cartina C						
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Dr. Seitz has not	hing to disclose.					

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Barsoum 1



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4. Are you the corresponding author?	Yes	√ No	Correspond Kurt P. Spi	_	r's Name	
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Did you or your institution at any time rece any aspect of the submitted work (including statistical analysis, etc.)? Are there any relevant conflicts of intere	but not limit	ed to gran				for
Section 3. Relevant financial	activities c	outside t	he submitted	work.		
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	_ 7 P	Personal	Non-Financial	7		
Name of Entity	Grant !	Fees?	Support?	Other •	Comments	
DJO		✓				
Stryker		\checkmark				
Zimmer		\checkmark				
Orthosensor		\checkmark				
Third Frontier		\checkmark				
NIH		✓				
Custom Orthopaedic Solutions				✓	Stock	
PeerWell				\checkmark	Stock	

Barsoum 2



Name of Entity	Grant? Personal Fees?	Non-Financial Ot	ther? Comments		
Capsico Health			Stock		
Continue A					
Section 4. Intellectual Propert	y Patents & Copy	yrights			
Do you have any patents, whether plann	ed, pending or issued	, broadly relevant t	to the work? Yes V No		
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Dr. Barsoum reports personal fees from Orthosensor , personal fees from Third F from PeerWell , other from Capsico Healt	rontier , personal fees	from NIH , other fr	al fees from Zimmer, personal fees from rom Custom Orthopaedic Solutions , other		

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Bloomfield 1



Section 1.	Identifying Inform	nation			
1. Given Name (Fi Michael	rst Name)	2. Surname (Last Name) Bloomfield	3. Date 03-April-2019		
4. Are you the cor	u the corresponding author? Yes Vo		Corresponding Author's Nar Kurt P. Spindler	me	
5. Manuscript Title Value in Research: Achieving Validated Outcomes Measurement While Mitigating Follow-Up Cost		Cost			
6. Manuscript Ider	ntifying Number (if you kr	now it)			
			_		
Section 2.	The Work Under Co	onsideration for Publi	ication		
any aspect of the s statistical analysis,	ubmitted work (including	but not limited to grants, d	n a third party (government, cor ata monitoring board, study de	mmercial, private foundation, etc.) for sign, manuscript preparation,	
	ı				
Section 3.	Relevant financial	activities outside the	submitted work.		
of compensation clicking the "Add	ı) with entities as descri	bed in the instructions. Upper that we be the second to th	lse one line for each entity; a	ationships (regardless of amount dd as many lines as you need by nonths prior to publication.	
	ı				
Section 4.	Intellectual Proper	rty Patents & Copyri	ghts		
Do you have any	patents, whether plan	ned, pending or issued, b	roadly relevant to the work?	Yes 🗸 No	

Bloomfield 2



Section 5. Polationships not sovered above
Relationships not covered above
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Section 6. Disclosure Statement
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Evaluation and Feedback

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Bloomfield 3



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Bowles 1



Section 1.	Identifying Inform	nation	
1. Given Name (Fi	rst Name)	2. Surname (Last Name) Bowles	3. Date 03-April-2019
4. Are you the corresponding author?		Yes ✓ No	Corresponding Author's Name Kurt P. Spindler
5. Manuscript Title Value in Researc		Outcomes Measurement \	While Mitigating Follow-Up Cost
6. Manuscript Ider	ntifying Number (if you kr	now it)	
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Section 4.	Intellectual Proper	rty Patents & Copyric	yhts
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo			

Bowles 2



Section 5. Relationships not severed above
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Brooks 1



Section 1. Identif	fying Information			
Given Name (First Name) Peter	2. Surname (Last Name) Brooks	3. Date 03-April-2019		
4. Are you the correspondin	g author? Yes Vo	Corresponding Author's Name Kurt Spindler MD		
5. Manuscript Title Value in Research: Achiev	ing Validated Outcomes Measurement W	/hile Mitigating Follow-Up Cost		
6. Manuscript Identifying Nu	umber (if you know it)			
Section 2. The Wo	ork Under Consideration for Public	ation		
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Section 4. Intelle	ctual Property Patents & Copyrig	hts		
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo				

Brooks 2



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Anis 1



Section 1.	Identifying Inform	nation	
1. Given Name (Fii Hiba	rst Name)	2. Surname (Last Name) Anis	3. Date 03-April-2019
4. Are you the corresponding author?		Yes ✓ No	Corresponding Author's Name Kurt P. Spindler
5. Manuscript Title Value in Research		Outcomes Measurement \	While Mitigating Follow-Up Cost
6. Manuscript Ider	ntifying Number (if you kr	now it)	
			-
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Section 4.	Intellectual Proper	rty Patents & Copyric	ghts
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo			

Anis 2



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Evans 1



Section 1. Identifying In	formation			
1. Given Name (First Name) Peter	2. Surname (Last Name) Evans	3. Date 03-April-2019		
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Kurt P. Spindler, MD		
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Evans 2



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Farrow 1



Section 1. Identifying Inform	nation			
1. Given Name (First Name) Lutul	2. Surname (Last Name) Farrow	3. Date 03-April-2019)	
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Kurt P. Spindler, MD		
5. Manuscript Title Value in Research: Achieving Validated	Outcomes Measurement \	While Mitigating Follow-Up Cost		
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intellectual Proper	rty Patents & Copyric	nts		
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Farrow 2



Section 5.	Deletion ships not assessed above
	Relationships not covered above
	lationships or activities that readers could perceive to have influenced, or that give the appearance of icing, what you wrote in the submitted work?
Yes, the follow	ring relationships/conditions/circumstances are present (explain below):
✓ No other relati	onships/conditions/circumstances that present a potential conflict of interest
	nuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements hals may ask authors to disclose further information about reported relationships.
Section 6.	Disclosure Statement
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Dr. Farrow has no	thing to disclose.

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Farrow 3



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

Gilot 1



Section 1.	Identifying Inform	ation		
1. Given Name (Firs	st Name)	2. Surname (Last Name) Gilot	3. Date 03-April-2019	
4. Are you the corresponding author?		Yes ✓ No	Corresponding Author's Name Kurt P. Spindler	
5. Manuscript Title Value in Research	: Achieving Validated	Outcomes Measurement \	While Mitigating Follow-Up Cost	
6. Manuscript Ident	tifying Number (if you kn	ow it)		
Section 2.	The Work Under Co	onsideration for Public	ation	
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 s	ubmitted work.	
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Section 4.	Intellectual Proper	ty Patents & Copyric	jhts	
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo				

Gilot 2



Section 5. Relationships not covered above
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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. Gilot has nothing to disclose.

Evaluation and Feedback

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Gilot 3



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Goodwin 1



Section 1. Identifyin	g Information			
1. Given Name (First Name) Ryan	2. Surname (Last Name) Goodwin	3. Date 03-April-2019		
4. Are you the corresponding au	thor? Yes 🗸 No	Corresponding Author's Name Kurt P. Spindler, MD		
5. Manuscript Title Value in Research: Achieving	Validated Outcomes Measurement	t While Mitigating Follow-Up Cost		
6. Manuscript Identifying Numb	er (if you know it)			
Section 2. The Work	Under Consideration for Publ	lication		
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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Name of Entity	Grant? Personal No	on-Financial Other? Comments		
Styker Spine		Educational consult		
(2M		✓ Educational consult		
Orthopediatrics		✓ Educational consult		
Section 4. Intellectua	al Property Patents & Copyri	ights		
	ether planned, pending or issued, b			
25 you have any paterio, will	plannea, penanty of 133aca, b	J. Jan., relevant to the Work.		

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Section 5. Polationships not severed above
Relationships not covered above
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Dr. Goodwin reports other from Styker Spine, other from K2M, other from Orthopediatrics, outside the submitted work; .

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

lannotti 1



Section 1. Identifying Infor	mation			
1. Given Name (First Name) Joseph	2. Surname (Last Nar Iannotti	ne) 3. Date 03-April-20	019	
4. Are you the corresponding author?	Yes ✓ No	Corresponding Author's Name Kurt P. Spindler, MD		
5. Manuscript Title Value in Research: Achieving Validate	d Outcomes Measurem	ent While Mitigating Follow-Up Cost		
6. Manuscript Identifying Number (if you	know it)			
Section 2. The Work Under	Consideration for P	ublication		
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Section 3. Relevant financia	l activities outside	the submitted work.		
of compensation) with entities as desc	cribed in the instruction	e whether you have financial relationships (r ns. Use one line for each entity; add as many t were present during the 36 months prio n	lines as you need by	
Are there any relevant conflicts of inte		No		
If yes, please fill out the appropriate in	formation below.			
Name of Entity	Grant? Personal Fees?	Non-Financial Other? Comments		
DePuy Synthes		Royalties		
DJO		Royalties and Cons	ulting	
Lippincott Williams Wilkens		Royalties		
Wright Tornier		Royalties		
Arthrex		Royalties		

lannotti 2



Section 4. Intellectual Property Patents & Copyrights						
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo						
Section 5. Relationships not covered above						
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Section 6. Disclosure Statement						
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Dr. lannotti reports personal fees from DePuy Synthes, personal fees from DJO, personal fees from Lippincott Williams Wilkens, personal fees from Wright Tornier, personal fees from Arthrex, outside the submitted work.						

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Jones 1



Section 1. Identifying Inform	nation			
1. Given Name (First Name) Morgan	2. Surname (Last Name) Jones		3. Date 03-April-2019	
4. Are you the corresponding author?	☐ Yes 🗸 No	Corresponding Author Kurt P. Spindler, MI		
5. Manuscript Title Value in Research: Achieving Validated	Outcomes Measurement \	While Mitigating Follo	ow-Up Cost	
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If yes, please fill out the appropriate info				
Name of Entity	Grant? Personal Noi	n-Financial other?	Comments	
NIH	V		K23AR066133	
Samumed			Advisory Board	
lournal of Bone and Joint Surgery	✓		Curriculum development	
Section 4. Intellectual Proper	rty Patents & Copyri	ghts		
Do you have any patents, whether plan	ned, pending or issued, br	oadly relevant to the	work? Yes V	

Jones 2



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Dr. Jones reports grants from NIH, personal fees from Samumed, personal fees from Journal of Bone and Joint Surgery, outside the submitted work; .

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Joyce 1



Section 1. Identifying Inform	nation			
Given Name (First Name) Michael	2. Surname (Last Name) Joyce	3. Date 03-April-2019		
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Kurt P. Spindler		
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Section 3. Relevant financial	activities outside the	submitted work		
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Joyce 2



Section 5. Polationships not severed shove	
Relationships not covered above	
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Krebs 1



Section 1.	Identifying Inform	nation			
1. Given Name (Fil Viktor	rst Name)	2. Surname (Last Name) Krebs	3. Date 03-April-2019		
4. Are you the cor	responding author?	Yes ✓ No	Corresponding Author's Name Kurt P. Spindler		
5. Manuscript Title Value in Research		Outcomes Measurement \	While Mitigating Follow-Up Cost		
6. Manuscript Ider	ntifying Number (if you kr	now it)			
			-		
Section 2.	The Work Under Co	onsideration for Public	cation		
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 s	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 Vo					
Section 4.	Intellectual Proper	rty Patents & Copyri <u>c</u>	yhts		
Do you have any			oadly relevant to the work? Yes V No		

Krebs 2



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?
Yes, the following relationships/conditions/circumstances are present (explain below):
✓ No other relationships/conditions/circumstances that present a potential conflict of interest
At the time of manuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statement. On occasion, journals may ask authors to disclose further information about reported relationships.
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. Krebs has nothing to disclose.

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Krebs 3



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Mesko 1



Section 1. Identifying Inform	nation			
1. Given Name (First Name) Nathan	2. Surname (Last Name) Mesko	3. Date 03-April-2	2019	
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Kurt P. Spindler		
5. Manuscript Title Value in Research: Achieving Validated	Outcomes Measurement \	/hile Mitigating Follow-Up Cost		
6. Manuscript Identifying Number (if you k	now it)			
Section 2. The Work Under C	onsideration for Public	ation		
Did you or your institution at any time receany aspect of the submitted work (including statistical analysis, etc.)?				
Are there any relevant conflicts of interest	est?			
Section 3. Relevant financial	activities outside the s	ubmitted 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? Ves No				
If yes, please fill out the appropriate info				
Name of Entity	Grant? Personal Nor	-Financial Other? Comments		
Stryker Orthopaedics		Consultant for Re Hip/Knee, Custon Robotic Platform	vision and Tumor n Prosthesese,	
Section 4. Intellectual Prope	rty Patents & Copyric	hts		
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo				

Mesko 2



Section 5. Relationships not covered above
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
Section 6. Disclosure Statement
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Dr. Mesko reports personal fees from Stryker Orthopaedics, outside the submitted work; .

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Section 1. Identifying Inform	nation				
1. Given Name (First Name) Anthony	2. Surname (Last N Miniaci	ame)	3. Date 03-Ap	e ril-2019	
4. Are you the corresponding author?	☐ Yes ✓ No	-	ding Author's Name indler, MD		
5. Manuscript Title Value in Research: Achieving Validated	Outcomes Measure	ment While Mitiga	ting Follow-Up Cost		
6. Manuscript Identifying Number (if you kn	now it)				
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Section 3. Relevant financial	activities outside	the submitted	work.		
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Name of Entity	Grant? Persona	Non-Financial Support?	Other? Comments	;	
Arthrosurface			Stock, honora fee	ria, royalty consulting	
Zimmer Biomet, Wolters Kluwer			Royalty		
Amniox Medical			✓ Consulting fee	e	
Rock Medical			Education		
Linvatec Corporation			Consulting		
Stryker			Consulting		
Trice			✓ Stock, speakir	ıg fee	



Section 4. Intellectual Property - Potents & Conscients
Intellectual Property Patents & Copyrights
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo
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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Board of ASES Foundation, Arthrosurface, Trice
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Dr. Miniaci reports personal fees from Arthrosurface, other from Zimmer Biomet, Wolters Kluwer, other from Amniox Medical, other from Rock Medical, other from Linvatec Corporation, other from Stryker, other from Trice, outside the submitted work; and Board of ASES Foundation, Arthrosurface, Trice.



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Molloy 1



Section 1.	Identifying Inform	nation			
1. Given Name (Fi Robert	rst Name)	2. Surname (Last Name) Molloy		3. Date 03-April-2019	
4. Are you the cor	responding author?	☐ Yes ✓ No	Corresponding Author's Kurt P. Spindler	Name	
•	5. Manuscript Title Value in Research: Achieving Validated Outcomes Measurement While Mitigating Follow-Up Cost				
6. Manuscript Ider	ntifying Number (if you kr	now it)			
			_		
Section 2.	The Work Under Co	onsideration for Publi	cation		
any aspect of the s statistical analysis, Are there any rel	ubmitted work (including	g but not limited to grants, d		commercial, private foundation, etc.) for design, manuscript preparation,	
Section 3.	Relevant financial	activities outside the	submitted work.		
of compensation clicking the "Add Are there any rele) with entities as descr	ibed in the instructions. Uport relationships that we est? Yes No	se one line for each entity	relationships (regardless of amount y; add as many lines as you need by 6 months prior to publication .	
Name of Entity		Grant	n-Financial Other?	Comments	
Stryker		✓	Co	nsulting	
Section 4.	Intellectual Proper	rty Patents & Copyri	ghts		
Do you have any	patents, whether plan	ned, pending or issued, b	roadly relevant to the wo	ork? Yes 🗸 No	

Molloy 2



Section 5. Polationships not sovered above
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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Dr. Molloy reports grants from Stryker, outside the submitted work; .

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Molloy 3



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Muschler 1



Section 1. Identifying Inform	nation	
Given Name (First Name) George	2. Surname (Last Name) Muschler	3. Date 03-April-2019
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Kurt P. Spindler
5. Manuscript Title Value in Research: Achieving Validated	Outcomes Measurement \	While Mitigating Follow-Up Cost
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		_
Section 2. The Work Under Co	onsideration for Public	cation
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Section 3. Relevant financial	activities outside the s	submitted work.
Place a check in the appropriate boxes i of compensation) with entities as descri	in the table to indicate wh ibed in the instructions. Us port relationships that we	nether you have financial relationships (regardless of amount se one line for each entity; add as many lines as you need by tree present during the 36 months prior to publication.
Section 4. Intellectual Property	die Dotente O.C.	· has
Intellectual Proper	rty Patents & Copyric	gnts
Do you have any patents, whether plan	ned, pending or issued, br	roadly relevant to the work? Yes V No

Muschler 2



Section 5. Belationshing not sovered above	
Relationships not covered above	
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Dr. Muschler has nothing to disclose.	

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Nickodem 1



Section 1.	Identifying Inform	nation	
1. Given Name (Fi Robert	rst Name)	2. Surname (Last Name) Nickodem	3. Date 03-April-2019
4. Are you the cor	responding author?	Yes ✓ No	Corresponding Author's Name Kurt P. Spindler
5. Manuscript Title Value in Research		Outcomes Measurement \	While Mitigating Follow-Up Cost
6. Manuscript Ider	ntifying Number (if you kr	now it)	
Section 2.	The Work Under Co	onsideration for Public	cation
any aspect of the s statistical analysis,	ubmitted work (including	g but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ta monitoring board, study design, manuscript preparation,
Section 3.	Relevant financial	activities outside the s	submitted work.
of compensation clicking the "Add	the appropriate boxes i	in the table to indicate who ibed in the instructions. Us port relationships that wer	ether you have financial relationships (regardless of amount se one line for each entity; add as many lines as you need by se present during the 36 months prior to publication.
Section 4.	Intellectual Prope	rty Patents & Copyri <u>c</u>	yhts
Do you have any	patents, whether plan	ned, pending or issued, br	oadly relevant to the work? Yes V No

Nickodem 2



Section 5. Polationships not severed above
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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At the time of manuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements On occasion, journals may ask authors to disclose further information about reported relationships.
Section 6. Disclosure Statement
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Dr. Nickodem has nothing to disclose.

Evaluation and Feedback

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Nickodem 3



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Other: Anything not covered under the previous three boxes

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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

Parker 1



Section 1. Identifying Info	rmation			
Given Name (First Name) Richard D	2. Surname (Last Name) Parker	3. Date 03-April-2019		
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Kurt Spindler, MD		
5. Manuscript Title Value in Research: Achieving Validat	ed Outcomes Measurement ^v	While Mitigating Follow-Up Cost		
6. Manuscript Identifying Number (if you	u know it)			
Section 2. The Work Under	Consideration for Public	cation		
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 int	erest? Yes ✓ No			
Section 3. Polyment Grane		and and the adversal		
Relevant financi	al activities outside the s	submitted work.		
of compensation) with entities as de-	scribed in the instructions. Us	ether you have financial relationships (regardless of amount se one line for each entity; add as many lines as you need by re present during the 36 months prior to publication.		
Are there any relevant conflicts of int	· ·			
Section 4. Intellectual Prop	perty Patents & Copyri	ghts		
Do you have any patents, whether pl	anned, pending or issued, b	roadly relevant to the work? Yes V No		

Parker 2



Section 5. Relationships not severed above
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?
Yes, the following relationships/conditions/circumstances are present (explain below):
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Section 6. Disclosure Statement
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Dr. Parker has nothing to disclose.

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Parker 3



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Patel 1



Section 1.	Identifying Inform	nation			
1. Given Name (Fir Preetesh	st Name)	2. Surname (Last Name) Patel	3. Date 03-April-2019		
4. Are you the corr	esponding author?	Yes Vo	Corresponding Author's Name Kurt P. Spindler		
5. Manuscript Title Value in Research		Outcomes Measurement	While Mitigating Follow-Up Cost		
6. Manuscript Iden	tifying Number (if you kr	now it)			
Section 2.	The Work Under Co	onsideration for Publ	ication		
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 rele	evant conflicts of intere	est?			
Section 3.	Section 3. Relevant financial activities outside the submitted work.				
of compensation clicking the "Add Are there any rele	he appropriate boxes i with entities as descri	n the table to indicate with the instructions. Uport relationships that we est?	hether you have financial relationships (regardless of amount Use one line for each entity; add as many lines as you need by ere present during the 36 months prior to publication.		
			on-Financial		
Name of Entity		Fees	On-Financial Support? Comments		
Stryker			Paid consultant		
Section 4.					
		rty Patents & Copyr			
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes V					

Patel 2



Section 5. Relationships not covered above
Relationships not covered above
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Yes, the following relationships/conditions/circumstances are present (explain below):
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Piuzzi 1



Section 1. Identifying Inform	nation		
1. Given Name (First Name) Nicolas	2. Surname (Last Name) Piuzzi		3. Date 03-April-2019
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Nam Kurt P. Spindler, MD	ne
5. Manuscript Title Value in Research: Achieving Validated	Outcomes Measurement	While Mitigating Follow-Up C	Cost
6. Manuscript Identifying Number (if you kr	now it)		
		_	
Section 2. The Work Under Co	onsideration for Publi	cation	
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 of compensation) with entities as described clicking the "Add +" box. You should repare there any relevant conflicts of interest.	ibed in the instructions. Us port relationships that we	se one line for each entity; ad	ld as many lines as you need by
Section 4			
Section 4. Intellectual Proper	rty Patents & Copyri	ghts	
Do you have any patents, whether plan	ned, pending or issued, bi	roadly relevant to the work?	Yes ✓ No

Piuzzi 2



Section 5. Relationships not severed above
Relationships not covered above
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Ricchetti 1



Section 1. Identifying Inform	nation			
1. Given Name (First Name) Eric T.	2. Surname (Last Name) Ricchetti		3. Date 03-April-2019	
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Kurt P. Spindler, MD	Name	
5. Manuscript Title Value in Research: Achieving Validated Outcomes Measurement While Mitigating Follow-Up Cost			-Up Cost	
6. Manuscript Identifying Number (if you kr	now it)			
Section 2. The Work Under Co	onsideration for Public	cation		
Did you or your institution at any time rece any aspect of the submitted work (including statistical analysis, etc.)? Are there any relevant conflicts of intere	but not limited to grants, da	. , .	•	
Section 3. Relevant financial	activities outside the s	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? Ves No				
If yes, please fill out the appropriate info	ormation below.			
Name of Entity	Grant? Personal Noi	n-Financial other?	Comments	
Depuy Synthes	✓			
DJO Surgical				
BJS				
Section 4. Intellectual Proper	ty Patents & Copyric	ghts		
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo				

Ricchetti 2



Section 5.				
Jeetion 3.	Relationships not covered above			
	elationships or activities that readers could perceive to have influenced, or that give the appearance of encing, what you wrote in the submitted work?			
Yes, the follow	wing relationships/conditions/circumstances are present (explain below):			
✓ No other rela	tionships/conditions/circumstances that present a potential conflict of interest			
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Section 6.				
	Disclosure Statement			
Based on the abo	ove disclosures, this form will automatically generate a disclosure statement, which will appear in the box			
Dr. Ricchetti repo outside the subr	orts grants and personal fees from Depuy Synthes, personal fees from DJO Surgical, personal fees from JBJS, nitted work; .			

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Rosneck 1



Section 1.	Identifying Inform	nation		
1. Given Name (Fi	rst Name)	2. Surname (Last Name) Rosneck		3. Date 03-April-2019
4. Are you the cor	the corresponding author? Yes Vo Corresponding Author's Name Kurt P. Spindler		s Name	
5. Manuscript Title Value in Research: Achieving Validated Outcomes Measurement While Mitigating Follow-Up Cost			r-Up Cost	
6. Manuscript Ider	ntifying Number (if you kr	now it)		
Section 2.	The Work Under Co	onsideration for Publ	ication	
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.				
of compensation clicking the "Add Are there any rele) with entities as descri	ibed in the instructions. Uport relationships that we lest? Yes No	Ise one line for each enti	al relationships (regardless of amount ity; add as many lines as you need by 36 months prior to publication .
Name of Entity		Grance	on-Financial Support?	Comments
Smith and Nephew		✓		
Section 4.	Intellectual Proper	rty Patents & Copyri	ghts	
Do you have any	Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo			

Rosneck 2



Section 5. Relationships not covered above
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
Disclosure Statement
Based on the above disclosures, this form will automatically generate a disclosure statement, which will appear in the box below.
Dr. Rosneck reports personal fees from Smith and Nephew, outside the submitted work; .

Evaluation and Feedback

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

Saluan 1



Section 1. Identifying Inform	nation			
1. Given Name (First Name) Paul	2. Surname (Last Name) Saluan		3. Date 03-April-2019	
4. Are you the corresponding author?	4. Are you the corresponding author? Yes Vo		me	
5. Manuscript Title Value in Research: Achieving Validated	Outcomes Measurement	While Mitigating Follow-Up	Cost	
6. Manuscript Identifying Number (if you kr	now it)			
		_		
Section 2. The Work Under Co	onsideration for Publi	cation		
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	est? Yes ✓ No			
Sortion 2				
Section 3. Relevant financial	activities outside the	submitted work.		
Place a check in the appropriate boxes in of compensation) with entities as described the "Add +" box. You should repare there any relevant conflicts of interest.	ibed in the instructions. Us port relationships that we	se one line for each entity; a	dd as many lines as you need by	
Section 4. Intellectual Proper	rty Patents & Copyri	ghts		
Do you have any patents, whether plan	ned, pending or issued, b	roadly relevant to the work?	Yes 🗸 No	

Saluan 2



Section 5. Relationships not covered above
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✓ No other relationships/conditions/circumstances that present a potential conflict of interest
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Section 6. Disclosure Statement
Disclosure Statement
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Schaffer 1



Section 1. Identifying Inform	nation		
1. Given Name (First Name) Jonathan	2. Surname (Last Name) Schaffer		3. Date 03-April-2019
4. Are you the corresponding author?	you the corresponding author? Yes V		ne
5. Manuscript Title Value in Research: Achieving Validated	Outcomes Measurement	While Mitigating Follow-Up (Cost
6. Manuscript Identifying Number (if you kr	now it)		
		_	
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Section 3. Relevant financial	activities outside the	submitted work.	
Place a check in the appropriate boxes in of compensation) with entities as described clicking the "Add +" box. You should repart there any relevant conflicts of interest.	ibed in the instructions. Us port relationships that we	se one line for each entity; ad	dd as many lines as you need by
Continue A			
Section 4. Intellectual Proper	rty Patents & Copyri	ghts	
Do you have any patents, whether plan	ned, pending or issued, bi	roadly relevant to the work?	☐ Yes ✓ No

Schaffer 2



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Schickendantz 1



Section 1. Identifying Inform	nation		
1. Given Name (First Name) Mark	2. Surname (Last Name) Schickendantz		3. Date 03-April-2019
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Nam Kurt P. Spindler	ne
5. Manuscript Title Value in Research: Achieving Validated	Outcomes Measurement	While Mitigating Follow-Up (Cost
6. Manuscript Identifying Number (if you k	now it)		
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Section 2. The Work Under C	onsideration for Publi	cation	
Did you or your institution at any time receany aspect of the submitted work (including statistical analysis, etc.)? Are there any relevant conflicts of interesting the statement of the stat	g but not limited to grants, do		
Are there any relevant connects of frices	cst: Tes V No		
Section 3. Relevant financial			
Relevant financial	activities outside the	submitted work.	
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Section 4. Intellectual Prope	rty Patents & Copyri	ghts	
Do you have any patents, whether plan	ned, pending or issued, b	roadly relevant to the work?	☐ Yes 🗸 No

Schickendantz 2



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Section 1.	Identifying Inform	nation			
1. Given Name (Fi Kurt	rst Name)	2. Surname (Last N Spindler	lame)		3. Date 01-August-2019
4. Are you the cor	responding author?	✓ Yes No	1		
5. Manuscript Title Value in Researc	e h: Achieving Validated	Outcomes Measure	ement While Mitiga	ating Follo	ow-Up Cost
6. Manuscript Ide	ntifying Number (if you kr R1	now it)			
	ı				
Section 2.	The Work Under C	onsideration for	Publication		
	ubmitted work (including				ent, commercial, private foundation, etc.) for udy design, manuscript preparation,
	evant conflicts of inter	est? ✓ Yes	No		
			ou have more than	n one enti	ty press the "ADD" button to add a row.
excess rows can	be removed by pressin		al Nan Financial		
Name of Institut	ion/Company	Grant? Person Fees?	.	Other •	Comments
nPhase		✓		✓	Commercial Product nPhase
Section 3.	Relevant financial	activities outsid	e the submitted	work.	
of compensation	n) with entities as descr	ibed in the instruct	ions. Use one line f	or each er	cial relationships (regardless of amount ntity; add as many lines as you need by e 36 months prior to publication.
Are there any rel	evant conflicts of inter	est? ✓ Yes	No		
If yes, please fill o	out the appropriate info	ormation below.			
Name of Entity		Grant? Person		Other?	Comments
Smith & Nephew Enc	loscopy			✓	Funding for Research
DonJoy Orthopaedic	S			✓	Funding for Research
NFL				✓	Royalty or consulting fee



Name of Entity	Grant?	Personal Fees?	Non-Financial Support?	Other?	Comments
Cytori				√	Consulting fee
Mitek				✓	Consulting fee
NIH/NIAMS R01 AR053684	✓				
Samumed				✓	Consulting fee
Flexion Therapeutics				√	Consulting fee
NIH/NIAMS R01 AR074131	✓				
Do you have any patents, whether plann				nt to the	work? Yes V No
Section 5. Relationships not o	overed:	above			
Are there other relationships or activities potentially influencing, what you wrote				nfluence	d, or that give the appearance of
Yes, the following relationships/cond	litions/cii	cumstance	s are present (exp	olain belo	ow):
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Dr. Spindler reports grants and other fro Endoscopy, other from DonJoy Orthopa R01 AR053684, other from Samumed, of submitted work; .	edics, oth	ner from NF	L, other from Cyt	ori, othe	from Mitek, grants from NIH/NIAMS



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Stearns 1



Section 1. Identifying	ng Information	
1. Given Name (First Name) Kim	2. Surname (Last Name) Stearns	3. Date 03-April-2019
4. Are you the corresponding at		onding Author's Name Spindler
5. Manuscript Title Value in Research: Achieving	Validated Outcomes Measurement While Miti	igating Follow-Up Cost
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	k (including but not limited to grants, data monitor	rty (government, commercial, private foundation, etc.) for ring board, study design, manuscript preparation,
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Do you have any patents, wh	ether planned, pending or issued, broadly rele	evant to the work? Yes Vo

Stearns 2



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

Suarez 1



Section 1. Identifying Inform	ation	
1. Given Name (First Name) Juan	2. Surname (Last Name) Suarez	3. Date 03-April-2019
4. Are you the corresponding author?	☐ Yes 🗸 No	Corresponding Author's Name Kurt P. Spindler
5. Manuscript Title Value in Research: Achieving Validated (Outcomes Measurement	While Mitigating Follow-Up Cost
6. Manuscript Identifying Number (if you kn	ow it)	
Section 2. The Work Under Co	onsideration for Publi	cation
Did you or your institution at any time recei	ve payment or services fron but not limited to grants, d	n a third party (government, commercial, private foundation, etc.) for ata monitoring board, study design, manuscript preparation,
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Are there any relevant conflicts of intere		
If yes, please fill out the appropriate info	ormation below.	
Name of Entity	Grant•	on-Financial Other? Comments
Corin USA		Royalties
Depuy		Consultant
Section 4. Intellectual Proper	ty Patents & Copyri	ahts
Do you have any patents, whether plans		-

Suarez 2



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Suarez 3



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Williams 1



Section 1. Identifying Infor	mation	
Given Name (First Name) James	2. Surname (Last Name) Williams	3. Date 03-April-2019
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding Author's Name Kurt P. Spindler
5. Manuscript Title Value in Research: Achieving Validated	d Outcomes Measurement \	While Mitigating Follow-Up Cost
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Section 3. Relevant financia	l activities outside the s	submitted work.
of compensation) with entities as desc	ribed in the instructions. Us eport relationships that wer	ether you have financial relationships (regardless of amount se one line for each entity; add as many lines as you need by re present during the 36 months prior to publication.
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Do you have any patents, whether pla	nned, pending or issued, br	roadly relevant to the work? Yes V No

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Zajichek 1



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any aspect of the s statistical analysis,	ubmitted work (including	but not limited to grants, da	a third party (government, commercial, private foundation, etc.) for ta monitoring board, study design, manuscript preparation,
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of compensation clicking the "Add) with entities as descri	bed in the instructions. Use port relationships that wer	ether you have financial relationships (regardless of amount se one line for each entity; add as many lines as you need by se present during the 36 months prior to publication.
Section 4.	Intellectual Proper	ty Patents & Copyric	ghts
Do you have any	patents, whether plan	ned, pending or issued, br	oadly relevant to the work? Yes V No

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