

#### **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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patent

Diebo 1



Section 1.	Identifying Inform	nation			
1. Given Name (Fi	rst Name)	2. Surname (Last Name) Diebo		3. Date 31-August-2019	
4. Are you the corresponding author?		✓ Yes No			
5. Manuscript Title Osteoporosis and Spine Surgery: A Call to Own the Back Bone					
6. Manuscript Ider	ntifying Number (if you kr	now it)			
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Section 2.	The Work Under Co	onsideration for Publi	cation		
any aspect of the s statistical analysis,	ubmitted work (including	but not limited to grants, d	a a third party (government, co ata monitoring board, study de	mmercial, private foundation, etc.) for esign, manuscript preparation,	
Section 3.	Relevant financial	activities outside the	submitted work.		
of compensation clicking the "Add	) with entities as descri	ibed in the instructions. U port relationships that we	se one line for each entity; a	ationships (regardless of amount add as many lines as you need by nonths prior to publication.	
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	

Diebo 2



Section 5. Relationships not severed above
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Dr. Diebo has nothing to disclose.

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Sheikh 1



Section 1.	Identifying Inform	nation			
1. Given Name (Fi Basel	rst Name)	2. Surname (Last Name) Sheikh	3. Date 31-August-2019		
4. Are you the cor	responding author?	Yes ✓ No	Corresponding Author's Name Bassel G. Diebo		
5. Manuscript Title Osteoporosis an		to Own the Back Bone			
6. Manuscript Ide	ntifying Number (if you kr	now it)			
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Section 2.	The Work Under C	onsideration for Public	cation		
Did you or your institution <b>at any time</b> 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.		
of compensation clicking the "Add	n) with entities as descr	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 re present during the 36 months prior to publication.		
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Do you have any	patents, whether plan	ned, pending or issued, br	oadly relevant to the work? Yes V No		

Sheikh 2



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patent

Paulino 1



Section 1.	Identifying Inform	nation			
1. Given Name (Fi	First Name)  2. Surname (Last Name) Paulino				3. Date 31-August-2019
4. Are you the cor	u the corresponding author? Yes Vo		lo Correspo Bassel G.	nding Author's Nam Diebo	ne
5. Manuscript Title Osteoporosis and Spine Surgery: A Call to Own the Back Bone			Bone		
6. Manuscript Ider	ntifying Number (if you kr	now it)			
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Section 3.	Relevant financial	activities outsi	de the submitted	l work.	
of compensation clicking the "Add Are there any rel	) with entities as descr	ibed in the instructions in the instruction in the	tions. Use one line	for each entity; ac	ationships (regardless of amount dd as many lines as you need by onths prior to publication.
Name of Entity		Grant? Perso	2	Other? Com	ments
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טס you nave any	patents, whether plan	nea, penaing or is	suea, proadly relev	rant to the work?	Yes ✓ No

Paulino 2



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Dr. Paulino reports personal fees from DePuy, A Johnson & Johnson Company Ethicon, outside the submitted work; .

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Shepherd 1



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4. Are you the corresponding author?		Yes ✓ No	Corresponding Author's Name Bassel G. Diebo				
5. Manuscript Title Osteoporosis and Spine Surgery: A Call to		to Own the Back Bone					
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	ı						
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Shepherd 2



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of compensation) with entities as desc	ribed in the instructions. eport relationships that wrest?   Yes   No	Use one line fo vere <b>present d</b>	ove financial relationships (regardless of amount or each entity; add as many lines as you need l or uring the 36 months prior to publication.			
Name of Entity	Grant? Personal N	lon-Financial Support	Other? Comments			
DePuy, A Johnson & Johnson Company	<b>✓</b>		Research support			
Globus Medical	<b>✓</b>		Research support			
K2M			IP Royalties, paid consultant, paid presenter or speaker			
Medicrea			Paid consultant			
Medtronic			Paid consultant			
Medtronic Sofamor Danek			IP Royalties, paid presenter or speaker			
Nuvasive			Research support			



Name of Entity	Grant? Perso		Other?	Comments	
Stryker	<b>√</b>			Research support	
Zimmer				IP Royalties, paid consultant, paid presenter or speaker	
Section 4. Intellectual Propert	y Patents &	Copyrights			
Do you have any patents, whether plann	ed, pending or	issued, broadly releva	ant to the	work? Yes 🗸 No	
Section 5. Relationships not c	overed above	<b>e</b>			
Are there other relationships or activities potentially influencing, what you wrote i		•	influence	d, or that give the appearance of	
✓ Yes, the following relationships/cond	litions/circumsta	ances are present (ex	plain belo	w):	
No other relationships/conditions/circumstances that present a potential conflict of interest					
Board or committee member of the Scol committee member (VP) of the Internation			overning b	oard of Spine Deformity, and Board or	
At the time of manuscript acceptance, jo On occasion, journals may ask authors to					
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Based on the above disclosures, this form below.	n will automatic	ally generate a disclo	sure state	ment, which will appear in the box	
Dr. Schwab reports grants from DePuy, A K2M, personal fees from Medicrea, personal f Nuvasive, grants from Stryker, personal f of the Scoliosis Research Society, Editoric the International Spine Society Group (IS	onal fees from <i>W</i> fees from Zimm al or governing	ledtronic, personal feer, outside the subm	ees from M nitted work	ledtronic Sofamor Danek, grants from c; and Board or committee member	



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Redfern 1



Section 1.	Identifying Inform	nation	
1. Given Name (Fi James	rst Name)	2. Surname (Last Name) Redfern	3. Date 31-August-2019
4. Are you the cor	4. Are you the corresponding author?		Corresponding Author's Name Bassel G. Diebo
5. Manuscript Title Osteoporosis and Spine Surgery: A Call to Own the Back Bone		to Own the Back Bone	
6. Manuscript Ide	ntifying Number (if you kr	now it)	
			_
Section 2.	The Work Under C	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 ita monitoring board, study design, manuscript preparation,
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Section 3.	Relevant financial	activities outside the s	submitted work.
of compensation clicking the "Add	n) with entities as descr	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 re present during the 36 months prior to publication.
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Section 4.	Intellectual Prope	rty Patents & Copyrig	ghts
Do you have any	patents, whether plan	ned, pending or issued, br	roadly relevant to the work? Yes V No

Redfern 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?
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 statements On occasion, journals may ask authors to disclose further information about reported relationships.
Section 6. Disclosure Statement
Disclosure statement
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Dr. Redfern has nothing to disclose.

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Redfern 3



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Freilich 1



Section 1.	Identifying Inform	nation	
1. Given Name (Fir Michael	rst Name)	2. Surname (Last Name) Freilich	3. Date 31-August-2019
4. Are you the corresponding author?		Yes 🗸 No	Corresponding Author's Name Bassel G. Diebo
5. Manuscript Title Osteoporosis and	e d Spine Surgery: A Call	to Own the Back Bone	
6. Manuscript Ider	ntifying Number (if you kr	now it)	
			_
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Section 3.	Relevant financial	activities outside the	submitted work.
of compensation clicking the "Add	) with entities as descri	ibed in the instructions. U port relationships that we	ether you have financial relationships (regardless of amount se one line for each entity; add as many lines as you need by re <b>present during the 36 months prior to publication</b> .
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 V No

Freilich 2



Section 5. Polationships not severed above
Relationships not covered above
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Shah 1



Section 1.	Identifying Inform	nation		
1. Given Name (Fi	rst Name)	2. Surname (Last Name) Shah	3. Date 31-August-2019	
4. Are you the corresponding author?		Yes ✓ No	Corresponding Author's Name Bassel G. Diebo	
5. Manuscript Title Osteoporosis an	e d Spine Surgery: A Call	to Own the Back Bone		
6. Manuscript Ider	ntifying Number (if you kr	now it)		
Section 2.	The Work Under C	onsideration for Public	cation	
Did you or your institution <b>at any time</b> 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.	
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 <b>present during the 36 months prior to publication</b> .  Are there any relevant conflicts of interest? Yes Vo				
	l.			
Section 4.	Intellectual Proper	rty Patents & Copyric	phts	
Do you have any	patents, whether plan	ned, pending or issued, br	oadly relevant to the work? Yes V No	

Shah 2



Section 5. Relationships not sovered above		
Relationships not covered above		
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Section 6. Disclosure Statement		
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Passias 1



Section 1. Identifying Infor	rmation			
1. Given Name (First Name) Peter	2. Surname (Last Name) Passias		3. Date 31-August-2019	
4. Are you the corresponding author?	☐ Yes ✓ No	Corresponding A Bassel G. Diebo	uthor's Name	
5. Manuscript Title Osteoporosis and Spine Surgery: A Ca	all to Own the Back Bone			
6. Manuscript Identifying Number (if you	know it)			
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Section 2. The Work Under	Consideration for Publi	cation		
Did you or your institution <b>at any time</b> re any aspect of the submitted work (includi statistical analysis, etc.)? Are there any relevant conflicts of inte	ng but not limited to grants, d			ec., for
Section 3. Relevant financia	al activities outside the	submitted work	•	
Place a check in the appropriate boxe of compensation) with entities as des clicking the "Add +" box. You should a Are there any relevant conflicts of intelligence of the second	cribed in the instructions. Ureport relationships that we erest?	lse one line for eac	h entity; add as many lines as you nee	ed by
Name of Entity	Grant? Personal No	on-Financial Othe	Comments	
Allosource			Financial or material support	
Cervical Scoliosis Research Society	<b>✓</b>		Research support	
Globus Medical			Paid presenter or speaker	
Medicrea			Paid consultant	
SpineWave			Paid consultant	
Zimmer			Paid presenter or speaker	

Passias 2



Soutien A				
Section 4. Intellectual Property Patents & Copyrights				
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes V				
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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Dr. Passias reports other from Allosource, grants from Cervical Scoliosis Research Society, personal fees from Globus Medical, personal fees from Medicrea, personal fees from SpineWave, personal fees from Zimmer, outside the submitted work; .				

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Passias 3



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Name of Entity		Grant'	on-Financial Other?	Comments
Nemaris Inc			✓ sto	ock
Section 4.	Intellectual Proper	rty Patents & Copyr	ights	
Do you have any	patents, whether plan	ned, pending or issued, l	oroadly relevant to the wo	ork?



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Dr. Lafage reports other from Nemaris Inc, outside the submitted work; .

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Najjar 1



Section 1.	Identifying Inform	nation	
1. Given Name (Fire	st Name)	2. Surname (Last Name) Najjar	3. Date 31-August-2019
4. Are you the corre	4. Are you the corresponding author?		Corresponding Author's Name Bassel G. Diebo
5. Manuscript Title Osteoporosis and	l Spine Surgery: A Call	to Own the Back Bone	
6. Manuscript Iden	tifying Number (if you kr	now it)	
Section 2.	The Work Under Co	onsideration for Publi	cation
any aspect of the su statistical analysis, e	ıbmitted work (including	but not limited to grants, d	n a third party (government, commercial, private foundation, etc.) for ata monitoring board, study design, manuscript preparation,
Section 3.	Relevant financial	activities outside the	submitted work.
of compensation) clicking the "Add	with entities as descri	bed in the instructions. U 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 re <b>present during the 36 months prior to publication</b> .
Section 4.	Intellectual Proper	ty Patents & Copyri	ghts
Do you have any	patents, whether plan	ned, pending or issued, b	roadly relevant to the work? Yes V No

Najjar 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?
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 statements 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. Najjar has nothing to disclose.

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Najjar 3



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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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## 2. The work under consideration for publication.

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

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

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#### Definitions.

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

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

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

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

Other: Anything not covered under the previous three boxes

**Pending:** The patent has been filed but not issued

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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

Tarabichi 1



Section 1.	Identifying Inform	nation	
1. Given Name (Fi	rst Name)	2. Surname (Last Name) Tarabichi	3. Date 31-August-2019
4. Are you the corresponding author?		Yes ✓ No	Corresponding Author's Name Bassel G. Diebo
5. Manuscript Title Osteoporosis and	e d Spine Surgery: A Call	to Own the Back Bone	
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			_
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Tarabichi 2



Section 5.	Delationships not servered above
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	elationships or activities that readers could perceive to have influenced, or that give the appearance of ncing, what you wrote in the submitted work?
Yes, the follow	ving relationships/conditions/circumstances are present (explain below):
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Section 1. Identifying Inform	nation			
1. Given Name (First Name) Virginie	2. Surname (Last Name Lafage	·)	3. Date 31-August-2019	
4. Are you the corresponding author?	☐ Yes ✓ No	Correspondir Bassel G. Die	ng Author's Name Boo	
5. Manuscript Title Osteoporosis and Spine Surgery: A Call	to Own the Back Bone			
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Name of Entity	Grant? Personal Fees?	Non-Financial Support?	Other? Comments	
DePuy, A Johnson & Johnson Company	<b>✓</b>		Research support, paid presenter or speaker	
Globus Medical			Paid consultant	
K2M			Paid presenter or speaker	
Medtronic	<b>✓</b>		Research support	
Nemaris Inc			✓ Stock or stock options	
Nuvasive	<b>✓</b>		Research support	
Stryker	<b>✓</b>		Research support	



Section 4. Intellectual Property - Potente & Consuights				
Intellectual Property Patents & Copyrights				
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Dr. Lafage reports grants and personal fees from DePuy, A Johnson & Johnson Company, from Globus Medical, personal fees from K2M, grants and personal fees from Medtronic, other from Nemaris Inc, grants from Nuvasive, grants from Stryker, outside the submitted work; and Board or committee member of the Scoliosis Research Society, and Board or committee member of the International Spine Society Group (ISSG).				



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