

#### **Instructions**

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### Identifying information.

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

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Chew 1



Section 1. Identifying Inform	nation	
1. Given Name (First Name) Wee Siong	2. Surname (Last Name) Chew	3. Date 09-May-2019
4. Are you the corresponding author?	✓ Yes No	
5. Manuscript Title Large-scale lipidomics identifies associa	ations between plasma sphingolipids and T2DM incid	dence
6. Manuscript Identifying Number (if you king 126925-INS-CMED-TR-2	now it)	
Section 2. The Work Under C	onsideration for Publication	
	eive payment or services from a third party (government, cong but not limited to grants, data monitoring board, study doest? Yes V No	
Section 3. Relevant financial	activities outside the submitted work.	
Place a check in the appropriate boxes of compensation) with entities as descr	in the table to indicate whether you have financial re ibed in the instructions. Use one line for each entity; port relationships that were <b>present during the 36 i</b>	add as many lines as you need by
Section 4. Intellectual Prope	rty Patents & Copyrights	
	ned, pending or issued, broadly relevant to the work	x?

Chew 2



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

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Torta 1



Section 1. Identifying Info	ormation	
1. Given Name (First Name) Federico	2. Surname (Last Name) Torta	3. Date 09-May-2019
4. Are you the corresponding author?	✓ Yes No	
5. Manuscript Title Large-scale lipidomics identifies asso	ociations between plasma sphingolipid	s and T2DM incidence
6. Manuscript Identifying Number (if you 126925-INS-CMED-TR-2	u know it)	
Section 2. The Work Under	r Consideration for Publication	
	ling but not limited to grants, data monitori	ty (government, commercial, private foundation, etc.) for ing board, study design, manuscript preparation,
Section 3. Relevant finance	ial activities outside the submitte	d work.
Place a check in the appropriate box of compensation) with entities as de	es in the table to indicate whether you scribed in the instructions. Use one line report relationships that were <b>present</b>	have financial relationships (regardless of amount for each entity; add as many lines as you need by a during the 36 months prior to publication.
Section 4. Intellectual Pro	perty Patents & Copyrights	
Do you have any patents, whether p	lanned, pending or issued, broadly rele	vant to the work? Yes 🗸 No

Torta 2



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Ji 1



Section 1.	Identifying Inform	ation	
1. Given Name (Fir Shanshan	rst Name)	2. Surname (Last Name) Ji	3. Date 09-May-2019
4. Are you the cor	responding author?	✓ Yes No	
5. Manuscript Title Large-scale lipide		tions between plasma sphingolipids and T2DM incid	dence
6. Manuscript Ider 126925-INS-CME	ntifying Number (if you kr D-TR-2	ow it)	
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Section 4.			
Section 4.	Intellectual Proper	ty Patents & Copyrights	
Do you have any	patents, whether plan	ned, pending or issued, broadly relevant to the work	?

Ji 2



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Choi 1



Section 1.	Identifying Inform	ation		
1. Given Name (Fi Hyungwon		2. Surname (Last Nan Choi	ne)	3. Date 09-May-2019
4. Are you the cor	responding author?	✓ Yes No		
5. Manuscript Title Large-scale lipid		itions between plasm	a sphingolipids and T2DM inci	dence
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Section 3.				
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Choi 2



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Begum 1



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Do you have any	patents, whether plan	ned, pending or issued, broadly	relevant to the work	? ☐ Yes ✓ No

Begum 2



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Sim 1



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4. Are you the corresponding author?	✓ Yes No	
5. Manuscript Title Large-scale lipidomics identifies associa	ations between plasma sphingolipids and T2DM inci	dence
6. Manuscript Identifying Number (if you ki 126925-INS-CMED-TR-2	now it)	
Section 2. The Work Under C	onsideration for Publication	
	vive payment or services from a third party (government, c g but not limited to grants, data monitoring board, study c est? Yes V No	
Section 3. Relevant financial	activities outside the submitted work.	
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Section 4. Intellectual Prope	rty Patents & Copyrights	
Do you have any patents, whether plan	ned, pending or issued, broadly relevant to the work	☐ Yes ✓ No</td

Sim 2



Section 5.	
	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 follo	wing relationships/conditions/circumstances are present (explain below):
✓ No other rela	tionships/conditions/circumstances that present a potential conflict of interest
	anuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements rnals may ask authors to disclose further information about reported relationships.
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Dr. Sim has noth	ning to disclose.

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Section 1.	Identifying Inform	nation			
1. Given Name (Fi Chin Meng	rst Name)	2. Surname (Last N Khoo	ame)	3. Date 09-Ma	e ny-2019
4. Are you the cor	responding author?	✓ Yes No			
5. Manuscript Title Large-scale lipid	e omics identifies associa	ations between plas	ma sphingolipids and T	T2DM incidence	
6. Manuscript Iden 126925-INS-CME	ntifying Number (if you kr ED-TR-2	now it)			
Section 2.	The Work Under C	onsideration for	Publication		
any aspect of the s statistical analysis,	submitted work (including	but not limited to gr			al, private foundation, etc.) for anuscript preparation,
Section 3.	Relevant financial	activities outsid	e the submitted wor	r <b>k.</b>	
of compensation clicking the "Add	the appropriate boxes i	in the table to indic ibed in the instructi port relationships th	ate whether you have fons. Use one line for ea	inancial relationsh ach entity; add as n	nips (regardless of amount many lines as you need by <b>prior to publication</b> .
Section 4.	Intellectual Prope	ty Patents & C	opyrights		
Do you have any	patents, whether plan	ned, pending or iss	ued, broadly relevant to	o the work?	es 🗸 No



Section 5.	
Section 5.	Relationships not covered above
	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	wing relationships/conditions/circumstances are present (explain below):
✓ No other relat	tionships/conditions/circumstances that present a potential conflict of interest
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1. Given Name (Fi Eric Yin Hao	rst Name)	2. Surname (Last Name) Khoo	3. Date 09-May-2019
4. Are you the cor	responding author?	✓ Yes No	
5. Manuscript Title Large-scale lipide		tions between plasma sphingolipids and T2DM incic	dence
6. Manuscript Ider 126925-INS-CME	ntifying Number (if you kn ED-TR-2	ow it)	
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Section 4.			
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Do you have any	patents, whether plan	ned, pending or issued, broadly relevant to the work	? ☐ Yes ✓ No



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Ong 1



Section 1.	Identifying Inform	ation	
1. Given Name (Fii Wei-Yi	rst Name)	2. Surname (Last Name) Ong	3. Date 09-May-2019
4. Are you the cor	responding author?	✓ Yes No	
5. Manuscript Title Large-scale lipide		tions between plasma sphingolipids and T2DM incic	dence
6. Manuscript Ider	ntifying Number (if you kn D-TR-2	ow it)	
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Section 4.	Intellectual Proper	ty Patents & Copyrights	
Do you have any	patents, whether plan	ned, pending or issued, broadly relevant to the work	? ☐ Yes ✓ No

Ong 2



Section 5.			
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Van Dam 1



Section 1.	Identifying Inform	ation	
1. Given Name (Fi Rob M.	rst Name)	2. Surname (Last Name) Van Dam	3. Date 09-May-2019
4. Are you the cor	responding author?	✓ Yes No	
5. Manuscript Title Large-scale lipide		ations between plasma sphingolipids and T2DM inc	idence
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Do you have any	patents, whether plan	ned, pending or issued, broadly relevant to the wor	rk? Yes 🗸 No

Van Dam 2



Section 5. Polationships not sovered above
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Wenk 1



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4. Are you the cor	responding author?	✓ Yes	No		
5. Manuscript Title Large-scale lipid		tions between p	olasma sphingolipids and	l T2DM incide	ence
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Do you have any	patents, whether plan	ned, pending or	issued, broadly relevant t	to the work?	☐ Yes 🗸 No

Wenk 2



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

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

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

## 4. Intellectual Property.

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

## Relationships not covered above.

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

#### Definitions.

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

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

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

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

Other: Anything not covered under the previous three boxes

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

**Issued:** The patent has been issued by the agency

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

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

Tai 1



Section 1.	Identifying Inform	ation	
Given Name (Fire E. Shyong	rst Name)	2. Surname (Last Name) Tai	3. Date 09-May-2019
4. Are you the cor	responding author?	✓ Yes No	
5. Manuscript Title Large-scale lipide		tions between plasma sphingolipids and T2DM inci	dence
6. Manuscript Ider 126925-INS-CME	ntifying Number (if you kr ED-TR-2	ow it)	
Section 2.	The Work Under Co	onsideration for Publication	
any aspect of the s statistical analysis,	ubmitted work (including	ve payment or services from a third party (government, cobut not limited to grants, data monitoring board, study dest?	
Section 3.	Relevant financial	activities outside the submitted work.	
of compensation clicking the "Add	n) with entities as descri	n the table to indicate whether you have financial rebed in the instructions. Use one line for each entity; port relationships that were <b>present during the 36</b> sest?	add as many lines as you need by
Section 4.	Intellectual Proper	ty Patents & Copyrights	
Do you have any	patents, whether plan	ned, pending or issued, broadly relevant to the work	☐ Yes ✓ No</th

Tai 2



Section 5.	
	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 follo	wing relationships/conditions/circumstances are present (explain below):
✓ No other rela	tionships/conditions/circumstances that present a potential conflict of interest
	anuscript acceptance, journals will ask authors to confirm and, if necessary, update their disclosure statements rnals may ask authors to disclose further information about reported relationships.
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. Tai has nothi	ng to disclose.

## **Evaluation and Feedback**

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

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#### **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.

### Identifying information.

### 2. The work under consideration for publication.

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

#### 3. Relevant financial activities outside the submitted work.

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

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

Herr 1



Section 1.	Identifying Inform	ation			
1. Given Name (First Name) Deron		2. Surname (Last Name) Herr	3. Date 09-May-2019		
4. Are you the corresponding author?		✓ Yes No			
•	5. Manuscript Title Large-scale lipidomics identifies associations between plasma sphingolipids and T2DM incidence				
6. Manuscript Identifying Number (if you know it) 126925-INS-CMED-TR-2					
Section 2.	The Work Under Co	onsideration for Publication			
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 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 <b>present during the 36 months prior to publication</b> .  Are there any relevant conflicts of interest? Yes Yes No					
Section 4.					
Section 4.	Intellectual Proper	ty Patents & Copyrights			
Do you have any patents, whether planned, pending or issued, broadly relevant to the work? Yes Vo					

Herr 2



Section 5.				
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 statements On occasion, journals may ask authors to disclose further information about reported relationships.				
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. Herr has notl	hing to disclose.			

#### **Evaluation and Feedback**

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

Herr 3

# ${\bf STROBE\ statement-checklist\ of\ items\ that\ should\ be\ reported\ in\ observational\ studies}$

	Item No.	STROBE items	Location in manuscript where items are reported	
Title and abstra	Title and abstract			
	1	(a) Indicate the study's design with a commonly used term in the title or the abstract (b) Provide in the abstract an informative and balanced summary of what was done and what was found	Abstract, paragraph 2	
Introduction				
Background rationale Objectives	3	Explain the scientific background and rationale for the investigation being reported  State specific objectives, including any prespecified hypotheses	Introduction, paragraphs 1, 2, and 3 Introduction, paragraph 3	
Methods	3	state specific objectives, including any prespecified hypotheses	muoduction, paragraph 3	
Study Design	4	Present key elements of study design early in the paper	Methods, paragraph 1	
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Methods, paragraphs 1 and 2	
Participants	6	<ul> <li>(a) Cohort study - Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up         Case-control study - Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls Cross-sectional study - Give the eligibility criteria, and the sources and methods of selection of participants</li> <li>(b) Cohort study - For matched studies, give matching criteria         and number of exposed and unexposed         Case-control study - For matched studies, give matching criteria and the number of controls per case</li> </ul>	Methods, paragraphs 1 and 2	
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable.	Methods, paragraphs 1 and 2	

Data sources/	8	For each variable of interest, give sources of data and details of	Methods, paragraphs 2 and 3
measurement		methods of assessment (measurement).	
		Describe comparability of assessment methods if there is more	
		than one group	
Bias	9	Describe any efforts to address potential sources of bias	Methods, paragraph 3
Study size	10	Explain how the study size was arrived at	Methods, paragraph 1
Quantitative	11	Explain how quantitative variables were handled in the	Methods, paragraphs 2 and 3
variables		analyses. If applicable, describe which groupings were chosen,	71 0 1
		and why	
Statistical	12	(a) Describe all statistical methods, including those used to	Methods, paragraph 4
methods		control for confounding	
		(b) Describe any methods used to examine subgroups and	
		interactions	
		(c) Explain how missing data were addressed	
		(d) Cohort study - If applicable, explain how loss to follow-	
		up was addressed  Case-control study - If applicable, explain how matching of cases	
		and controls was addressed	
		Cross-sectional study - If applicable, describe analytical	
		methods taking account of sampling strategy	
		(e) Describe any sensitivity analyses	
Results		(c) 2 course any constant to analyses	
Participants	13	(a) Report the numbers of individuals at each stage of the	Methods, paragraph 1
•		study (e.g., numbers potentially eligible, examined for	Results, paragraphs 1 and 2
		eligibility, confirmed eligible, included in the study, completing	
		followup, and analysed)	
		(b) Give reasons for non-participation at each stage.	
		(c) Consider use of a flow diagram	
Descriptive data	14	(a) Give characteristics of study participants (e.g.,	Methods, paragraph 1
		demographic, clinical, social) and information on exposures and	Figure 1
		potential confounders (b) Indicate the number of participants with missing data for	Table 1
		each variable of interest	Results, paragraphs 1 and 2
		(c) Cohort study - summarise follow-up time (e.g., average	
		1 1	

and total amount)

Outcome data	15	Cohort study - Report numbers of outcome events or summary measures over time  Case-control study - Report numbers in each exposure category, or summary measures of exposure  Cross-sectional study - Report numbers of outcome events or	Tables 1 and 2 Results, paragraphs 1 and 2 Figure 1
		summary measures	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounderadjusted estimates and their precision (e.g., 95% confidence	Table 2 Figure 4
		interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	Results, paragraphs 7 and 8
Other analyses	17	Report other analyses done—e.g., analyses of subgroups and	Figs 2 – 5
		interactions, and sensitivity analyses	Results, paragraphs 3 – 6
Discussion			
Key results	18	Summarise key results with reference to study objectives	Fig 2&7 Discussion, paragraphs 2, 3, 4, 6, 7, and 9
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	Discussion, paragraphs 10 and 11
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Discussion, paragraphs 8 and 9
Generalisability	21	Discuss the generalisability (external validity) of the study results	Discussion, paragraphs 8 and 9
Other Informati	on		

Funding	22	Give the source of funding and the role of the funders for the	Funding information as stated below was entered in
		present study and, if applicable, for the original study on which	the financial disclosure section of the manuscript:
		the present article is based	This work was supported by the National University
			Health System (NUHSRO/2014/085/AF-Partner/01,
			DRH) and the NRF Investigatorship grant
			(NRFNRFI2015-05, FT). The funders had no role in
			study design, data collection and analysis, decision to
			publish, or preparation of the manuscript