## SUPPLEMENTARY TABLE 1. Survey of impact of COVID-19 pandemic on pregnant women in Hong Kong

You are invited to participate in a survey which studies the effect of COVID-19 pandemic on obstetric care, psychosocial well-being in pregnant women in Hong Kong. This research is conducted by Dr PW Hui, Dr KW Cheung and Dr Mimi Seto of Department of Obstetrics and Gynaecology, Queen Mary Hospital, The University of Hong Kong.

#### **PURPOSE OF THE STUDY**

In this survey, we hope to gather your answers on how COVID-19 pandemic has affected you since January 2020.

#### **PROCEDURE**

In this survey, we will be asking you questions about your antenatal clinic schedule, work arrangement, practice of mask wear, quarantine experience and obstetric service adjustment during the COVID-19 outbreak. The survey will take around 10-15 minutes to complete.

#### POTENTIAL RISKS

You may find talking about your obstetric experience during the COVID-19 outbreak somewhat upsetting or uncomfortable. If at any time you find such feeling distributing, you can stop the survey at any time and discuss your feeling with our healthcare staff.

#### **POTENTIAL BENEFITS**

This study provides you an opportunity as a pregnant woman to reflect on your views on your pregnancy experience and obstetric service adjustment during COVID-19 outbreak. The information will be useful for our department to understand and address the concerns of pregnant women in the future.

#### CONFIDENTIALITY

We will make every effort to ensure strict confidentiality. The information obtained in this study will only be used for research and educational purpose only. No personal identifiers will be collected. The data will be analysed anonymously.

#### PARTICIPATION AND WITHDRAWAL

Your participation is voluntary. You can choose not to participate in or you can withdraw from this study at any time witho
delaying or affecting your subsequent management in the hospital. Do you understand the procedures described above ar
agree to participate in this survey?

Yes, I consent.
No, I do not consent.

How many times have you postponed your hospital appointment(s) for fear of COVID-19 since January 2020?

	I do not have such appointment	0	1 time	2 times	3 times	4 times	5 times	6 times or more
Regular antenatal check-up								
Ultrasound for foetal anomaly								
Ultrasound for foetal growth								
Investigations eg, blood test, Down's or GBS screening								
Other medical/surgical appointments								

How many times of your appointment(s) have been changed by hospital because of COVID-19?

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	I do not have such appointment	0	1 time	2 times	3 times	4 times	5 times	6 times or more		
Regular antenatal check-up										
Ultrasound for foetal anomaly										
Ultrasound for foetal growth										
Investigations eg, blood test, Down's or GBS screening										
Other medical/surgical appointments										
As you have appointment resched	duled, have you	ı arranged	appointme	ent in priva	te sector ir	nstead?				
		No		cheduled ntment						
Regular antenatal check-up							1			
Ultrasound for foetal anomaly										
Ultrasound for foetal growth							!			
Investigations, eg, blood test, Do		creening								
Other medical/surgical appointments										
Were you working from home?  I was not working in this period.  I was working from home.  My workplace remained the same.  How did work from home affect your attendance for obstetrics clinic?  It had no impact.  It was easier for me to attend the clinic.  It was more difficult for me to attend the clinic.  Are you working in these listed areas?  Public hospital  Private hospital  Out-patient clinic  Airport/airlines  I am working in other areas.										
Were your partner/husband work  ☐ My partner/husband was no ☐ My partner/husband was work ☐ My partner/husband's work	ot working in th orking from hor	is period. ne.								
How did your partner/husband w  ☐ It had no impact. ☐ It was easier for my partner. ☐ It was more difficult for part	/husband to att	end the cli	nic with m	e.	artner/hust	oand for ob	stetric clin	ic?		

How	did your partner/husband work from home affect your overall pregnancy experience?  Much better  Little better  Similar  Little worse  Much worse
On y	your overall pregnancy experience, please select the items that describe your conditions? (Can choose more than 1
	More conflict with partner/husband
	More financial strain
	More overall psychological stress
	More pressure from household duty
	More pressure from work duty
	Others, please describe:
On :	your overall pregnancy experience, please select the items that describe your conditions? (Can choose more than 1
	More time for me and/or my partner/husband to attend clinic together
	More time for me and/or my partner/husband to spend time at home
	More time for me and/or my partner/husband to prepare for delivery
	Others, please describe:
Wha	at was the impact of school suspension on your overall pregnancy experience?
	Much better
	Little better
	Similar
	Little worse
	Much worse
Wha	at was the impact of suspension of community service on your overall pregnancy experience?
	Much better
	Little better
	Similar
	Little worse
	Much worse

What proportion of time did you wear mask in the following setting? (Please tap on the slider and slide to your answer.)

		Never						Always				
	0	10	20	30	40	50	60	70	80	90	100	
In hospital						-6						
In clinic						-8						
At home						-8						
Outdoors						-0						

What type of mask did you use most of time?

	Surgical mask	N95 mask	Other type of mask	I did not use mask
In hospital				
In clinic				
At home				
Outdoors				

Have □ □	e you travelled aboard for fear of COVID-19 Infection in Hong Kong? Yes No
Have	e you travelled back to Hong Kong for fear of COVID-19 infection aboard? Yes No
Do y	ou have family members in same household infected by COVID-19? Yes No
Have	you been quarantined?
	Yes
	No
Wha	t type of quarantined have you been?
	Quarantined camp in Hong Kong
	Local home
	Local hotel
	Cruise ship Other overseas sites
_	Other overseas sites

How did quarantine emotionally disturb your overall pregnancy experience? (Please tap on the slider and slide to your answer.)

		Not disturbed						Ve	ry disturb	ed	
	0	10	20	30	40	50	60	70	80	90	100
Emotion											

Have you been living with household members on home quaranting	Have \	vou been	livina v	with h	nousehold	members	on h	nome c	uarantine
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□ Yes

□ No

How did living with household members on home quarantine emotionally disturb your overall pregnancy experience? (Please tap on the slider and slide to your answer.)

		Not disturbed						Ve	ry disturb	ed	
	0	10	20	30	40	50	60	70	80	90	100
Emotion											

Have	you ever	been in	contact with	patients	infected by	COVID-19?
П	Yes					

□ No

How did contact with patients infected by COVID-19 emotionally disturb your overall pregnancy experience? (Please tap on the slider and slide to your answer.)

		Not disturbed					Very disturbed				
	0	10	20	30	40	50	60	70	80	90	100
Emotion						-6					

Have anyone of your household members been in contact with patients infected by COVID-19?

□ Yes

□ No

How did the contact history of your household members with patients infected by COVID-19 emotionally disturb your overall pregnancy experience? (Please tap on the slider and slide to your answer.)

		Not disturbed				Very disturbed					
	0	10	20	30	40	50	60	70	80	90	100
Emotion						-					

Have you been tested for COVID-19?

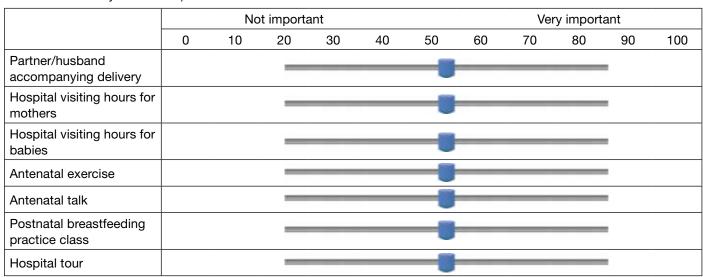
□ Yes

□ No

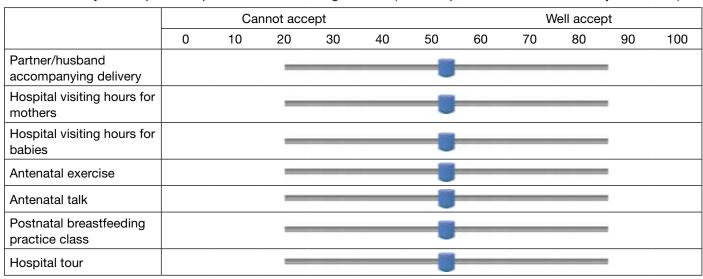
How much did the testing emotionally disturb your overall pregnancy experience? (Please tap on the slider and slide to your answer.)

	Not disturbed				Very disturbed						
	0	10	20	30	40	50	60	70	80	90	100
Emotion											

How important do you feel about the following service towards your obstetric and delivery experience? (Please tap on the slider and slide to your answer.)



How much can you accept the suspension of the following service? (Please tap on the slider and slide to your answer.)



How useful do you think about the following relieving arrangement? (Please tap on the slider and slide to your answer.)

		Not useful					Very useful				
	0	10	20	30	40	50	60	70	80	90	100
Delivery service of personal belongings at hospital entrance			_			-0					
Telephone call immediately after delivery						-6					
Photo taking using own mobile immediately after delivery			_			-0					
Department online information											
Provision of earlier discharge following delivery											

Wha	at is your age?
	<18 years old
	18-20 years old
	21-25 years old
	26-30 years old
	31-35 years old
	36-40 years old
	41-45 years old
	46-50 years old
Do :	you have singleton or multiple pregnancies?
	Singleton
	Twins
П	Triplets or more

How  □  □	did you conceive? Spontaneous pregnancy Ovulation induction In-vitro fertilisation
What	is your marital status?  Married Single Divorced Others, please describe:
What	is your ethnicity? Chinese Caucasian Filipino Indian Indonesian Thai Nepalese Pakistanis Japanese Korean African Others, please describe:
Numl	ber of previous vaginal delivery 0 1 time 2 times 3 times 4 times or more
Numl	ber of previous Caesarean delivery 0 1 time 2 times 3 times 4 times or more
How	many weeks are you pregnant now? Earlier than 12 weeks 12-18 Weeks 18-24 Weeks 25-30 Weeks 31-36 Weeks Over 36 weeks I have delivered.
How	did you deliver this time? Vaginal delivery Caesarean delivery

What □ □	was the mode of anaesthesia? Regional General
How	long did you stay in hospital before delivery?  0 Day  1 Day  2 Days  3 Days  4 Days  5 Days  6 Days  7 Days or more
How	long did you stay in hospital after delivery?  0 Day  1 Day  2 Days  3 Days  4 Days  5 Days  6 Days  7 Days or more
Have □ □	you requested early discharge following delivery? Yes No
Did y □ □	rou have influenza vaccine during pregnancy? Yes No
Did y □ □	rou have pertussis vaccine during pregnancy? Yes No
Finall	ly, we would like to ask if you have any of the following psychological or psychiatric conditions.  None Depression Anxiety disorder Schizophrenia Obsessive compulsive disorder Manic disorder Adjustment disorder Other psychological or psychiatric conditions, please describe:

Abbreviations: COVID-19 = coronavirus disease 2019; GBS = Group B streptococcus

# SUPPLEMENTARY TABLE 2. Survey of impact of COVID-19 pandemic on pregnant women in Hong Kong (Traditional Chinese version)

#### 2019冠狀病毒病大流行對香港孕婦的影響調查

我們誠意邀請您參加一項調查有關2019冠狀病毒病大流行對香港孕婦的產科護理、社會心理健康的影響。這項研究是由香港大學瑪麗醫院婦產科的許佩華醫生、張嘉宏醫生及司徒天欣醫生進行。

### 這項研究的目的

在是次調查中,我們希望收集有關2020年1月以來2019冠狀病毒病大流行如何影響您的答案。

#### 程序

在這項調查中,我們將詢問有關2019冠狀病毒病大流行爆發期間您的產科覆診的安排,戴口罩的習慣,檢疫經驗和產科服務調整的問題。這項調查大約需要10到15分鐘才能完成。

#### 潛在風險

您可能會發現談論2019冠狀病毒病大流行爆發期間的產科經歷有些沮喪或不安。如果您在任何時候發現這種不安的感覺,可以隨時停止填寫,請與我們的醫護人員討論您的感覺。

#### 潛在的好處

這項研究反映您對2019冠狀病毒病大流行爆發期間懷孕經歷和產科服務調整的看法。這些信息將有助我們更了解孕婦及產婦的需要,並作出改善。

#### 保密

請放心,您提供的資料將會嚴格保密,並以匿名納入一眾受訪者的意見中一併分析作醫學研究。本研究中獲得的信息僅用於研究和教育目的,不會收集任何個人資料。

## 參與和退出

您的參與是自願的。	。您可以選擇不參加或退出本研究:	,而不會延遲或影響您之後在醫院的治療	。請問您了解上述程序並同意參
加此調查嗎?			

- □ 是的,我同意。
- □ 不,我不同意。

請問自2020年1月以來,您因害怕2019冠狀病毒病而推遲了多少次預約檢查?

	我沒有這樣 的預約	0次	1次	2次	3次	4次	5次	6次或 以上
定期產前檢查								
胎兒結構超聲波檢查								
胎兒生長超聲波檢查								
檢查:驗血,唐氏篩查或GBS 篩查等								
其他內科 / 外科的檢查 / 覆診								

#### 請問您因2019冠狀病毒病而被醫院更改了多少次預約檢查?

	我沒有這樣 的預約	0次	1次	2次	3次	4次	5次	6次或 以上
定期產前檢查								
胎兒結構超聲波檢查								
胎兒生長超聲波檢查								
檢查:驗血,唐氏篩查或GBS 篩查等								
其他內科 / 外科的檢查 / 覆診								

如果您推遲了在醫院的預約檢查,請問您是否安排了私家醫生的預約檢查?

	是	不是	沒有新的預約
定期產前檢查			
胎兒結構超聲波檢查			
胎兒生長超聲波檢查			
檢查:驗血,唐氏篩查或GBS篩查等			
其他內科 / 外科的檢查 / 覆診			

請問·	你在家工作嗎?
	我這段時間沒有工作
	我的工作場所維持不變
請問	在家工作對您去產科門診覆診有影響嗎?
	沒有影響
	比較容易
	比較困難
	您在下列的地點工作嗎?
	公立醫院
	私立醫院 門診
	機場/航空公司
	我在其他地方工作
≐= 門-	您的伴侶 / 丈夫在家工作嗎?
明刊	我的伴侣 / 丈夫在此期間沒有工作
	我的伴侣 / 丈夫在家工作
	我的伴侶 / 丈夫工作場所保持不變
請問:	在家工作對您的伴侶/丈夫陪診產科有影響嗎?
	沒有影響
	比較容易
	比較困難
請問:	如果您或您的伴侶/丈夫在家中工作,這對您的整體懷孕經歷有何影響?
	好很多
	好一點
	差不多
	差一點 差很多
	Z IN D
	體懷孕經歷,請選擇以下合適的描述。(可以選擇多於一項)
	與伴侶 / 丈夫發生更多衝突
	財務壓力更大 整體心理壓力更大
	來自家務的壓力更大
	工作壓力更大
П	其他,請描述:

100

# **SUPPLEMENTARY TABLE 2.** (cont'd)

就整體懷孕經歷,請選擇 □ 我和/或我的伴侶 □ 我和/或我的伴侶 □ 我和/或我的伴侶 □ 我和/或我的伴侶 □ 共他,請描述:	/ 丈夫有 / 丈夫有	更多時間· 更多時間 <sup>。</sup>	一起去診原 在家中度第	听	頁)	_				
請問停課對您整體懷孕經 □ 好很多 □ 好一點 □ 差不多 □ 差一點 □ 差很多	逐種有何景	響?								
請問停止社區及公共服務 □ 好很多 □ 好一點 □ 差不多 □ 差一點 □ 差很多	對您的整	體懷孕經	<u>逐</u> 看什麼	影響?						
在以下的情況,請問您戴	口罩的時	間比例是	₹ 1 1 1 1 1 1 1 1 1 1 1 1 1	青點擊方場	鬼並滑動至	您的答	₹。)			
			沒有						常常	
	0	10	20	30	40	50	60	70	80	90
在醫院										

## 請問您使用什麼類型的口罩?

在診所

戶外活動

在家

	外科口罩	N95型	其他型號	沒有使用口罩
在醫院				
在診所				
在家				
戶外活動				

請問日	公有否曾因害怕在香港感染2019冠狀病毒病而離開香港? 有 沒有
請問: □	宏有否曾因為擔心在外地被2019冠狀病毒病感染而返回香港? 有 沒有
請問: □	與您同住的家人有沒有感染了2019冠狀病毒病? 有 沒有

請問 <sup>·</sup>	你是否曾經被隔離嗎? 有 沒有
請問 	您去過哪種隔離地點? 香港的隔離營 當地的家 當地的酒店 在遊輪上 在海外隔離

請問您在進行隔離的生活時,在情感上如何影響您的整體懷孕經歷?(請點擊方塊並滑動到您的答案。)

			沒影響						很不安		
	0	10	20	30	40	50	60	70	80	90	100
情感						-6					

請問您有否曾經與正在進行家居隔離的家庭成員同住?

□ 有

□ 沒有

請問您與正在進行家居隔離的家庭成員同住生活時,在情感上如何影響您的整體懷孕經歷?(請點擊方塊並滑動到您的答案。)

			沒影響				很不安					
	0	10	20	30	40	50	60	70	80	90	100	
情感						-						

請問您有否曾經接觸過感染2019冠狀病毒病的患者?

□ 有

□ 沒有

請問您與感染2019冠狀病毒病的患者接觸時,在情感上如何影響您的整體懷孕經歷?(請點擊方塊並滑動到您的答案。)

			沒影響						很不安		
	0	10	20	30	40	50	60	70	80	90	100
情感											

請問您的家庭成員中有沒有人接觸過2019冠狀病毒病感染的患者?

□ 有

□ 沒有

請問當您知道家庭成員曾與感染2019冠狀病毒病的患者接觸時,在情感上如何影響您的整體懷孕經歷?(請點擊方塊並滑動到您的答案。)

			沒影響					很不安					
	0	10	20	30	40	50	60	70	80	90	100		
情感													

請問您有否曾經進行2019冠狀病毒病測試?

□ 有

□ 沒有

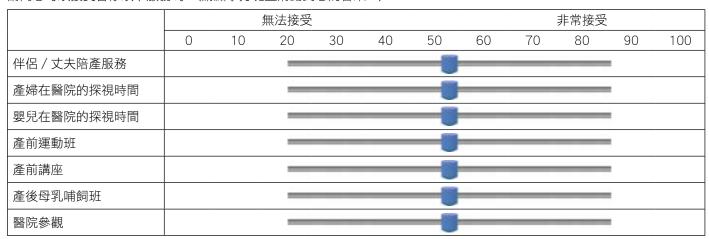
請問2019冠狀病毒病測試在情感上如何影響您的整體懷孕經歷?(請點擊方塊並滑動到您的答案。)

			沒影響						很不安		
	0	10	20	30	40	50	60	70	80	90	100
情感						-					

請問您認為以下服務對您的懷孕和分娩經歷有多重要?(請點擊方塊並滑動到您的答案。)

			不重要		很重要						
	0	10	20	30	40	50	60	70	80	90	100
伴侶 / 丈夫陪產服務											
產婦在醫院的探視時間											
嬰兒在醫院的探視時間											
產前運動班											
產前講座											
產後母乳哺飼班											
醫院參觀											

請問您可以接受暫停以下服務嗎?(請點擊方塊並滑動到您的答案。)



請問您認為以下的安排有多少幫助?(請點擊方塊並滑動到您的答案。)

			沒用				很有用						
	0	10	20	30	40	50	60	70	80	90	100		
醫院入口處的個人物品運 送服務						-0							
生產後打電話通知													
生產後使用自己的手機 拍照						-8							
部門網上的資訊													
分娩後提早出院													

IX幾歲? <18歲 18-20歲 21-25歲 26-30歲 31-35歲 36-40歲 41-45歲 46-50歲
EE是單胎或多胎懷孕嗎? 單胎 雙胞胎 三胞胎或以上
r是怎樣成功懷孕? 自然懷孕 刺激排卵 試管懷孕
IR的婚姻狀況如何? 已婚 單身 離婚 其他,請描述:
r是什麼種族? 華人 白種人 菲律賓人 印度人 印尼人 泰國人 尼·基斯坦人 日本人 韓國人 非洲人
E.經陰道分娩次數? 0次 1次 2次 3次 4次或以上
E 剖腹分娩的次數? 0次 1次 2次 3次 4次或以上

	您現在懷孕幾週? 少於12週 12-18週 18-24週 25-30週 31-36週 超過36週 我已經生產了
請問: □	您這次是如何生產的? 陰道分娩 剖腹產
請問: □	您的麻醉方式是什麼? 局部 全身
請問	您分娩前住院時間有多長? 0天 1天 2天 3天 4天 5天 6天 7天或以上
請問	您分娩後住院時間有多長? 0天 1天 2天 3天 4天 5天 6天 7天或以上
請問: □	您有否在生產後要求提早出院? 有 沒有
請問: □	您在懷孕期間有沒有注射流感疫苗? 有 沒有
請問: □	您在懷孕期間有沒有注射百日咳疫苗? 有 沒有
最後	,我們想知道您有否患有以下任何心理或精神疾病。 沒有 抑鬱症 焦慮症 精神分裂症 強迫症 躁狂症 適應障礙 其他心理或精神疾病,請描述:

# **SUPPLEMENTARY TABLE 3.** Effect of work from home on overall pregnancy experience among women reporting a positive impact of working from home (n=246)

Effect	Responses
More time to spend at home	197 (80.1%)
More time to attend clinic together	133 (54.1%)
More time to prepare for delivery	89 (36.2%)

# **SUPPLEMENTARY TABLE 4.** Effect of work from home on overall pregnancy experience among women reporting a negative impact of working from home (n=18)

Effect	Responses
More psychological stress	13 (72.2%)
More household duties	8 (44.4%)
Greater financial strain	6 (33.3%)
Greater conflict with husband/partner	5 (27.8%)
Greater work pressure	5 (27.8%)

## **SUPPLEMENTARY TABLE 5. Mask wearing practices**\*

	Hospitals	Clinics	Outdoor areas	Home
Proportion of mask-wearing time, %	97.2 ± 13.4	97.0 ± 15.2	89.3 ± 20.3	4.1 ± 12.7
No. of women who always wear a mask (n=733)	682 (93.0%)	691 (94.3%)	468 (63.8%)	6 (0.8%)
Type of mask use (n=733)				
Surgical mask	624 (85.1%)	648 (88.4%)	432 (92.3%)	4 (66.7%)
N95 mask	55 (7.5%)	32 (4.4%)	4 (0.9%)	0
Other type of mask	54 (7.4%)	53 (7.2%)	32 (6.8%)	2 (33.3%)

 $<sup>^{*}</sup>$  Data are shown as No. (%) or mean  $\pm$  standard deviation

## SUPPLEMENTARY TABLE 6. Travel, COVID-19 testing, and quarantine experiences (n=733)

	No. (%)
Travel abroad because of COVID-19 risk in Hong Kong	50/733 (6.8%)
Return to Hong Kong because of COVID-19 risk abroad	98/733 (13.4%)
Tested for COVID-19	27/733 (3.7%)
Moderate to marked emotional disturbance	13/27 (48.1%)
Personal quarantine experience	31/733 (4.2%)
Moderate to marked emotional disturbance	20/31 (64.5%)
Living with household members during home quarantine	26/733 (3.5%)
Moderate to marked emotional disturbance	11/26 (42.3%)

Abbreviation: COVID-19 = coronavirus disease 2019

## SUPPLEMENTARY FIG. Opinions of obstetric service importance and acceptance of service suspension (n=733)

