

**Supplemental Table 1** Scoring criteria for KAP questionnaires<sup>1,2</sup>

<b>Knowledge part (Total scores = 9; Corrected answer = 1 point)</b>	<b>Neutral (point)</b>	<b>Uncertain (point)</b>	<b>Disagree (point)</b>
Can COVID-19 be transmitted from the mother to the baby during pregnancy?	-1	0	1
Can COVID-19 be transmitted from the mother to the baby through breast milk?	-1	0	1
Can COVID-19 spread through respiratory droplets from a COVID-19-positive case?	1	0	-1
To prevent the spread of COVID-19, should people avoid going to a community mall and using public transport?	1	0	-1
Are COVID-19 vaccinations safe for pregnant women and their babies?	1	0	-1
Can COVID-19 vaccinations reduce severe illness from COVID-19 infection?	1	0	-1
Are COVID-19 vaccinations safe for breastfeeding mothers and their babies?	1	0	-1
After the breastfeeding mother receives the COVID-19 vaccine, can the immunity transfer to the baby through breast milk?	1	0	-1
Is formula feeding safer than expressed breast milk if the mother has a COVID-19 infection?	-1	0	1
<b>Attitude part (Total scores = 14; 1 point = positive attitude)</b>	<b>Neutral (point)</b>	<b>Uncertain (point)</b>	<b>Disagree (point)</b>
Breastfeeding is the best option for infant feeding during the COVID-19 pandemic.	1	0	0
Is it safer to switch to formula milk during the COVID-19 pandemic?	0	0	1
I am afraid of transferring COVID-19 to my baby through breastfeeding.	0	0	1
If I had a COVID-19 infection, I would stop breastfeeding.	0	0	1
Wearing a surgical mask ± face shield during breastfeeding can reduce the risk of COVID-19 transmission from the mother to the baby.	1	0	0
Strict hand washing before breastfeeding can reduce the risk of COVID-19 transmission from the mother to the baby.	1	0	0
I would continue breastfeeding despite having a COVID-19 positive case in the household.	1	0	0
I would continue breastfeeding after receiving COVID-19 vaccinations.	1	0	0
Side effects of COVID-19 vaccinations may prevent me from continuing breastfeeding.	0	0	1
It is safer to switch to formula feeding after I have COVID-19 vaccinations.	0	0	1
I want to be vaccinated and breastfeed to provide immunity to my baby.	1	0	0

I do not want visitors because they might have COVID-19 and can infect me and/or my baby.	1	0	0
Breastfeeding can protect my baby against COVID-19 and other respiratory infections.	1	0	0
COVID-19 infection in my household is an important reason to switch from breastfeeding to formula feeding.	0	0	1
<b>Practice part (Total scores = 6)</b>	<b>Always (point)</b>	<b>Usually or rarely (point)</b>	<b>Never (point)</b>
How often do you wear a mask/face shield during feeding time?	2	1	0
How often do you wash your hands with soap and water or hand sanitizer before feeding your baby?	2	1	0
How often do you wear a mask at home?	2	1	0

<sup>1</sup>A longitudinal survey of Thai mothers who live in Bangkok was conducted at infant age of 2,12, and 24 weeks from March 2022-April 2023 during COVID-19 pandemic

<sup>2</sup>The questionnaire, assessing knowledge of SARS-CoV-2 transmission, attitudes toward breastfeeding, and hygiene practices, was validated using the Item-Objective Congruence index. Good KAP was defined as scoring >60% in each section. Associated factors were analyzed using multivariable linear regression.

**Supplemental Table 2** Factors associated with the change in knowledge scores from 2 to 24 weeks<sup>1</sup>

Factors	from 2 to 12 weeks			from 12 to 24 weeks		
	$\beta$	95% CI	<i>p</i> -value <sup>2</sup>	$\beta$	95%CI	<i>p</i> -value <sup>2</sup>
<b>Constant</b>		-0.05, 3.40	0.06		-2.62, 1.37	0.54
<b>Maternal age (years)</b>	-0.18	-0.10, -0.00	<b>0.04*</b>	0.12	-0.02, 0.10	0.19
<b>Mother education</b>						
Primary school or below	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Secondary school	-0.13	-1.67, 0.69	0.41	0.01	-1.32, 1.42	0.95
Trade/vocational school	-0.10	-1.68, 0.80	0.49	0.12	-0.84, 2.02	0.42
Bachelor's degree	0.04	-1.11, 1.37	0.84	-0.063	-1.70, 1.19	0.73
Master's degree	0.09	-1.12, 2.35	0.49	-0.18	-2.86, 1.16	0.40
Professional or doctorate	0.03	-3.09, 4.37	0.73	0.17	0.19, 8.53	<b>0.04*</b>
<b>Mother Occupation</b>						
Not working	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Working	-0.13	-1.24, 0.20	0.16	0.06	-0.55, 1.10	0.51
<b>Family income (USD/month)</b>						
< 440	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
440-880	0.03	-0.69, 0.90	0.79	-0.12	-1.39, 0.40	0.28
>880-1470	0.08	-0.54, 1.20	0.46	-0.02	-1.10, 0.90	0.85
>1470-2930	0.04	-0.83, 1.17	0.73	0.03	-0.98, 1.27	0.80
> 2930	0.06	-0.99, 1.75	0.59	-0.02	-1.76, 1.48	0.86
<b>Breastfeeding experience</b>						
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	0.01	-0.55, 0.61	0.91	-0.01	-0.70, 0.65	0.94
<b>Maternal history of COVID-19 infection</b>						
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	0.09	-0.24, 0.87	0.26	-0.10	-1.05, 0.23	0.20

**Abbreviations:**  $\beta$ : Standardized regression coefficient, CI: confidence interval, Ref: reference

<sup>1</sup>A longitudinal survey of Thai mothers who live in Bangkok was conducted at infant age of 2,12, and 24 weeks from March 2022-April 2023 during COVID-19 pandemic

<sup>2</sup>The association between change in knowledge scores and associated factors were explored using multivariable linear regression.

**Supplemental Table 3** Factors associated with the change in attitude scores from 2 to 24 weeks<sup>1</sup>

Factors	from 2 to 12 weeks			from 12 to 24 weeks		
	$\beta$	95% CI	<i>p</i> -value <sup>2</sup>	$\beta$	95% CI	<i>p</i> -value <sup>2</sup>
<b>Constant</b>		-5.42, 2.09	0.38		-6.50, -0.17	0.04
<b>Maternal age (years)</b>	-0.13	-0.19, 0.03	0.14	0.186	0.02, 0.20	<b>0.02*</b>
<b>Mother education</b>						
Primary school or below	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Secondary school	0.18	-1.03, 4.12	0.24	-0.20	-3.78, 0.56	0.15
Trade/vocational school	0.30	0.21, 5.61	0.04	-0.24	-4.45, 0.11	<b>0.06*</b>
Bachelor's degree	0.340	0.06, 5.47	0.05	-0.41	-5.344, -0.78	<b>0.01*</b>
Master's degree	0.340	1.31, 8.89	<b>0.01*</b>	-0.36	-8.11, -1.72	<b>&lt;0.001*</b>
Professional or doctorate	0.09	-3.65, 12.61	0.29	-0.20	-11.90, 1.82	0.15
<b>Mother Occupation</b>						
Not working	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Working	-0.06	-2.15, 1.02	0.48	-0.01	-1.40, 1.27	0.93
<b>Family income (USD/month)</b>						
< 440	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
440-880	0.16	-0.43, 3.02	0.14	-0.25	-3.36, -0.45	<b>0.01*</b>
>880-1470	0.25	0.45, 4.25	<b>0.02*</b>	-0.41	-5.14, -1.93	<b>&lt;0.001*</b>
>1470-2930	0.15	-0.57, 3.77	0.15	-0.29	-4.62, -0.97	<b>&lt;0.001*</b>
> 2930	0.16	-0.60, 5.39	0.12	-0.35	-7.36, -2.30	<b>&lt;0.001*</b>
<b>Breastfeeding experience</b>						
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	0.10	-0.47, 2.06	0.22	-0.12	-1.92, 0.21	0.11
<b>Maternal history of COVID-19 infection</b>						
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	0.04	-0.89, 1.52	0.60	0.00	-1.02, 1.02	1.00

**Abbreviations:**  $\beta$ : Standardized regression coefficient, CI: confidence interval, Ref: reference

<sup>1</sup>A longitudinal survey of Thai mothers who live in Bangkok was conducted at infant age of 2,12, and 24 weeks from March 2022-April 2023 during COVID-19 pandemic

<sup>2</sup> The association between change in attitude scores and associated factors were explored using multivariable linear regression. \*Indicates a *p*-value < 0.05

**Supplemental Table 4** Factors associated with the change in practice scores from 2 to 24 weeks<sup>1</sup>

Factors	from 2 to 12 weeks			from 12 to 24 weeks		
	$\beta$	95% CI	<i>p</i> -value <sup>2</sup>	$\beta$	95% CI	<i>p</i> -value <sup>2</sup>
<b>Constant</b>		-2.24, 1.44	0.67		-1.16, 2.30	0.52
<b>Maternal age (years)</b>	0.11	-0.02, 0.09	0.23	-0.17	-0.09, 0.00	0.08
<b>Mother education</b>						
Primary school or below	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Secondary school	0.08	-0.95, 1.57	0.63	0.40	0.22, 2.62	0.02
Trade/vocational school	0.01	-1.30, 1.35	0.97	0.14	-0.70, 1.79	0.39
Bachelor's degree	0.11	-0.91, 1.75	0.53	0.40	0.07, 2.55	0.04
Master's degree	0.10	-1.13, 2.58	0.44	0.05	-1.37, 1.94	0.74
Professional or doctorate	-0.03	-4.78, 3.19	0.69	-0.04	-3.44, 3.26	0.96
<b>Mother Occupation</b>						
Not working	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Working	0.01	-0.72, 0.83	0.89	-0.06	-0.88, 0.46	0.54
<b>Family income (USD/month)</b>						
< 440	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
440-880	-0.09	-1.20, 0.49	0.41	-0.11	-1.12, 0.36	0.31
>880-1470	-0.23	-1.97, -0.10	<b>0.03*</b>	-0.05	-1.00, 0.61	0.63
>1470-2930	-0.15	-1.81, 0.31	0.16	-0.05	-1.14, 0.69	0.62
> 2930	-0.18	-2.75, 0.19	0.09	0.12	-0.56, 2.03	0.26
<b>Breastfeeding experience</b>						
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	-0.00	-0.63, 0.60	0.96	-0.04	-0.66, 0.43	0.68
<b>Maternal history of COVID-19 infection</b>						
No	Ref.	Ref.	Ref.	Ref.	Ref.	Ref.
Yes	0.04	-0.42, 0.76	0.58	0.02	-0.45, 0.58	0.80

**Abbreviations:**  $\beta$ : Standardized regression coefficient, CI: confidence interval, Ref: reference

<sup>1</sup>A longitudinal survey of Thai mothers who live in Bangkok was conducted at infant age of 2,12, and 24 weeks from March 2022-April 2023 during COVID-19 pandemic

<sup>2</sup> The association between change in practice scores and associated factors were explored using multivariable linear regression. \*Indicates a *p*-value < 0.05