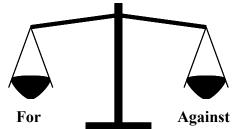
## **Supplemental digital content 1**

The original multi-attribute utility questionnaire for attitude toward labor epidural analgesia



Q1. Epidural analgesia does not cause long term backache	0000000000
Q2. Epidural analgesia is not detrimental to baby	0000000000
Q3. Epidural analgesia will delay labor progression	0000000000
Q4. I am afraid of the pain	0000000000
Q5. If my doctor advised me to receive labor epidural	0000000000
analgesia, I must obey	
Q6. I think it is worthy to relieve labor pain with the	0000000000
current cost of epidural analgesia	
Q7. My elderly family members think epidural analgesia is	0000000000
harmful to me	
Q8. I have actively collected information about epidural	0000000000
analgesia and compared its benefits and drawbacks	
carefully	
Q9. My relatives or friends had received labor epidural	0000000000
analgesia and advised me to receive it	
Q10. I care about my health and receive prenatal exam	0000000000
regularly	
Q11. I'm afraid of needles	0000000000

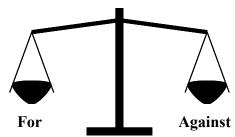
Q12. I will receive epidural analgesia despite possible side	0000000000
effects, like itching, dizziness, nausea or vomiting and	
numbness over lower extremities	
Q13. I think epidural analgesia is too expensive	0000000000
Q14. Epidural analgesia will interfere with my birth	000000000
experience	
Q15. The severe complications due to epidural analgesia are	000000000
extremely rare	
Q16. National health insurance should pay for epidural	000000000
analgesia	
Q17. The labor pain is uncomfortable but tolerable	000000000
Q18. If most people receive epidural analgesia during their	000000000
labor, I will receive it, too	
Q19. I hope the doctor can explain labor epidural analgesia to	000000000
me as explicitly as possible	
Q20. I should not receive epidural analgesia until the labor	0000000000
pain becomes intolerable	
Original coding before the Rasch analysis	9 8 7 6 5 4 3 2 1 0

Item 3, 7, 11, 13, 14, 17, 20 are inversely coded before performing further analyses.

The original category 0 and 1 are combined as the new category "0", 2-4 as "1", 5-7 as "2", and 8-9 as "3".

## The questions retained after the Rasch analysis are marked in boldface.

The simplified version of multi-attribute utility questionnaire for attitude toward labor epidural analgesia after the Rasch analysis



analgesia after the Rasch analysis		
	For	Against
Q4. I fear labor pain		
Q6. I think it is worthy to relieve labor pain with the		
current cost of epidural analgesia		
Q8. I have actively collected information about epidural		
analgesia and compared its benefits and drawbacks		
carefully		
Q9. My relatives or friends had received labor epidural	00000	
analgesia and advised me to receive it		
Q11. I fear needle injection	00000	
Q13. I think epidural analgesia is too expensive	00000	
Q14. Epidural analgesia will interfere with my birth		
experience		
Q16. National health insurance should pay for epidural		
analgesia		
Q17. The labor pain is uncomfortable but tolerable	00000	
New coding after the Rasch analysis	3 2	1 0