# **Additional file 2. Kangaroo mother care qualitative study: semi-structured interview guide**

**KMC interview guide for nurses and doctors**

**Personal information:** Age, sex, educational attainment, profession, title, years of working, KMC trainings received.

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| Questions | CFIR Constructs |
| KMC Basic Information |  |
| * Do you know what’s KMC? * How does KMC influence premature infants’ growth? How does it influence parents? * What’s the procedure of KMC? | Knowledge and Beliefs About the Intervention |
| * Do you think KMC is complicated (duration, difficulty, procedure, charge)? | Complexity |
| * Who will you ask if you encounter any question? | Intervention Source |
| * Is KMC suitable for your daily work now? * How to integrate KMC into your daily work? * Does KMC promote your daily work? | Adaptability |
| * Is the workload of KMC one of your job performance criteria? * Has the lead doctor/nurse considered giving awards and recognition for KMC? | External Policy and Incentives |
| Examples of KMC |  |
| * Has anyone performed KMC today? * If yes, who made the decision to perform KMC? Why the infant was selected for KMC? Is there any other infant with similar condition that did not perform KMC? Why? * If no, why there’s no KMC performed today? When’s the last time KMC performed? | Intervention Source |
| KMC Training |  |
| * When and how did you first know of KMC? * How do the promotion materials influence you? * How was the training session? The pros and cons? Do you need more training? | Intervention Source  Knowledge and Beliefs About the Intervention |
| * At what stage are you aware of KMC intervention and utilization? | Individual Stage of Change |
| Resources Needed for KMC |  |
| * What basic infrastructure (design, equipment, personnel) will influence KMC implementation? | Structural Characteristics |
| * What do you think of the promotion materials (quality, clothing, mirror, cups, WeChat groups)? | Design Quality and Packaging |
| * What other resources are needed? | Patient Needs and Resources  Cost |
| * Do you think the current resource is adequate for KMC? | Patient Needs and Resources |
| * How to acquire those resources? What’s the challenge? * If inadequate, what other resource is needed from the hospital? Have you received any of those resource from hospital? What resource is easier to get? | Patient Needs and Resources |
| Acceptance among Hospital Colleagues and General Environment |  |
| * How do the hospital and ward leadership think of KMC? * What’s the goal for KMC implementation at the moment? How to achieve? * What’s the progress this month? Anyone in charge of data collection? * What’s the acceptance rate of KMC in the hospital and ward? Why? * Do you think your colleagues can assist parents to perform KMC? | Readiness for Implementation  Implementation Climate |
| * Does KMC provide comparative advantage for your hospital? | Peer Pressure |
| * What external policy could sustain KMC implementation? | External Policy and Incentives |
| * What’s the process of attitude change towards KMC? How did that happen? | Culture |
| Parents’ Feedback of KMC |  |
| * How many parents ask for KMC? How do they know of KMC? Wechat groups? * Why parents refuse KMC? Charge, location, emotion? * What’s their attitude towards KMC? * What’s parents’ understanding of KMC? * What’s parents’ feedback of KMC? Does that change doctor-patient relationship? | Patient Needs and Resources |
| * Do you have confidence for assisting parents to perform KMC? Why? | Self-Efficacy |
| Suggestions and Need for KMC |  |
| * During implementation, what changes are needed for KMC? * Do you think you can make those changes? Why and why not? | Patient Needs and Resources |
| * How to sustain the promotion of KMC in the wards? | Implementation Climate |
| * Do you think KMC should be scaled up? When should KMC be introduced to parents? Before or after delivery? | Implementation Climate |
| * Can you tell a story of collaboration with other departments/units during KMC implementation? | Networks and Communications |

Thank you for your participation!

**KMC parent interview guide**

**Personal information:** Age, sex, educational attainment, profession, relationship with the infant (mother, father, etc.), family condition (distance to the hospital, number of children, mode of delivery, etc.)

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| Questions | CFIR Constructs |
| What is KMC? |  |
| * Do you know what’s KMC? | Knowledge and Beliefs About the Intervention |
| * How do you know of KMC? | Evidence Strength and Quality |
| * What influence your understanding of KMC? | Intervention Source |
| * How does KMC influence premature infants’ growth? How does it influence you? Why and why not? | Knowledge and Beliefs About the Intervention  Peer Pressure |
| * Some says KMC is useful and some doesn’t, what’s your attitude towards KMC? (Relevant? enthusiastic? Not optimistic?) Why? | Knowledge and Beliefs About the Intervention |
| Examples of KMC |  |
| * Has anyone in the ward performed KMC today? If yes, who made the decision to perform KMC? * Why KMC was decided to be used and why not? | Intervention Source |
| * How do you perform KMC? Please consider these about KMC: should it be charged? skin contact (skin-to-skin or over clothes), duration, complicated or not, procedure, intervention, etc. | Complexity |
| * What daily changes are needed for KMC? Do you think you can make those changes, why and why not? * How to integrate KMC into your daily life? What’s the challenge? | Adaptability |
| KMC Guidance and Promotion |  |
| * How do you evaluate the guidance received? * How did the guidance assist KMC implementation? Can you explain? * What’s the pros and cons of KMC guidance? * Do you need more guidance? * Who will you ask if you have questions for KMC? | Intervention Source |
| * How do you think of KMC promotion materials? When is the best time to introduce KMC to you? (If there’s a WeChat group? How the group is managed? How’s the quality of the promotion material?) * What are the other ways that KMC could be promoted? E.g. WeChat groups, websites? | Design Quality and Packaging |
| * Can you describe how do you cooperate with medical staff during KMC? Do you think KMC influence your relationship with doctors and nurses? * Can you tell me an actual case? | Networks and Communications |
| * How confident are you in terms of performing KMC? * What makes you more or less confident? | Self-Efficacy |
| Resources Provided for KMC |  |
| * Does the hospital provide adequate resource (e.g. bed, clothes, bandage, glass, cups) for you to perform KMC? * [If yes] how do you acquire such resources? How do you use them? What other resources are needed but hard to acquire? * [If not] what are the resources/time needed? | Patient Needs and Resources |
| * Do you have enough time to perform KMC? | Patient Needs and Resources |
| * What other basic infrastructure (design, equipment, personnel) will influence KMC implementation? | Structural Characteristics |
| Family Support and Collaboration |  |
| * How do other family members think of KMC? Do they support KMC? Why? | Evidence Strength and Quality |
| * Can you tell me how do you collaborate with other family members in KMC? * Can you tell an actual case? | Networks and Communications  Implementation Climate |
| * What family condition will influence KMC implementation? | Structural Characteristics |
| Feedback from other Parents |  |
| * How many other parents ask for KMC? How do they know of KMC? | Patient Needs and Resources |
| * How was the WeChat group established? | Patient Needs and Resources |
| * Why other parents refuse to perform KMC? What’s their perception of KMC? | Patient Needs and Resources |
| * Have you heard of other parents performing KMC? * Can you tell an actual case? | Patient Needs and Resources |
| What stage are you in terms of understanding of KMC? (Choose one) |  |
| * Understanding: Heard of KMC, want to know more of KMC? * Convinced and considering: Accept KMC and would like to discuss using it * Decided to use: Determined to perform KMC * Using periodically: Have knowledge of KMC and using it periodically * Using regularly: Understand KMC’s benefit and use it regularly, and plan to promote it to other people | Self-efficacy  Individual Stage of Change |

Thank you for your participation!