

APPENDIX 1: Survey Instruments

Interview Guide: Married Women

- 1) What is your age? _____
- 2) What is the highest level of education you have attained?
 - a. Illiterate
 - b. Some primary school (up to 7th class)
 - c. Secondary school (8th-10th)
 - d. Higher secondary school (11th or 12th class)
 - e. Some higher education (college, university)
 - f. College or university degree (BA, BBA, B.Sc., B.Sc.IT, B.E., B.Tech, MBBS)
 - g. Post-Graduate degree
- 3) What is your religion?
 - a. Hindu
 - b. Muslim
 - c. Buddhist
 - d. Christian
 - e. Sikh
 - f. Jain
 - g. Other _____
- 4) What is your caste identity?
 - a. Open
 - b. ST
 - c. SC
 - d. OBC
 - e. NT
 - f. Any other (specify) _____
- 5) What is your occupation?
 - a. Unemployed
 - b. Housewife
 - c. Farmer
 - d. Agricultural laborer
 - e. Service
 - f. Business
 - g. Any other (specify) _____
- 6) What was your age when you got married?
- 7) How many pregnancies have you had?
- 8) Are you currently pregnant?
- 9) What were the outcomes of your pregnancies? [PROMPT: normal delivery, miscarriage, abortion, ectopic pregnancy]
- 10) How many (live) children do you have?
- 11) How many children do you want to have?

- 12) Are you planning to have another pregnancy in the next year?
- 13) Are you planning to have another pregnancy in the next 5 years?
- 14) List the methods of contraception that you know.
- 15) Are you currently using contraception? If yes, which method are you using?
- 16) Which methods have you used before? [PROMPT: what has your experience been with other methods?]
- 17) After you have had all the pregnancies that you wish to have, what type of contraceptive method would you like to use?
- 18) When you decide to use a method of contraception, whom do you discuss it with?
[PROMPT: husband, mother, mother-in-law, family members, friends, health worker]
- 19) Would you still choose a method of contraception if they were opposed to it? [PROMPT: Can you tell me more about this?]
- 20) Does it matter to you if a contraceptive method can be kept private from your husband (and others)? [PROMPT: If so, can you say more about this? Why would this matter?]
- 21) Have you ever had any problems with bleeding while using a contraceptive method?
If yes,
 What was it that bothered you most about bleeding? [PROMPT: inconvenience, health concerns, persistence of bleeding, husband's reaction]

 How did the bleeding affect your use of that method? [PROMPT: Did it cause you to discontinue use?]

 How long would you be willing to experience irregular bleeding when using a method of contraception?
- 22) What do you think about “*nas bandi*”? [PROMPT: Do you have concerns about “*nas bandi*”?]
- 23) What do people in your community say about “*nas bandi*”? [PROMPT: your friends, husband, family members?]
- 24) How much do the attitudes of your community affect your decision-making around contraception?
- 25) What do you think about having a sterilization surgery at the time of delivery?
- 26) Have you had surgery before? [PROMPT: What kind of surgery?]
 What do you think makes something surgical? [PROMPT: Going to the operating room? Getting “put to sleep”? An incision/scar? Having something put inside your body?]
- 27) Are you comfortable with the idea of surgery for permanent contraception? [PROMPT: do you have specific concerns regarding surgery? Is there anything about surgical sterilization that is appealing to you?]
- 28) Do you think that sterilization surgery is easy or difficult? What makes it so?
- 29) If a safe and effective method of permanent contraception could be provided without surgery, would this interest you? [PROMPT: what specifically would interest you about such a method and why?]
- 30) Would you consider using a nonsurgical method for permanent contraception?
- 31) What concerns would you have about a permanent method of contraception that did not require surgery?

- 32) What kind of healthcare professional should provide permanent contraception for women? [PROMPT: Ob/Gyns; Doctor; LHVs; ANMs]
- 33) How do you react when you hear about a new method of contraception? [PROMPT: Are you interested in trying it right away? Are you hesitant?]
- 34) I will list possible traits of permanent contraception. What do you think would be good for you? Please choose between the following:
- Happens in an operating room / Done in an office or clinic?
 - Requires multiple visits / Requires a single visit?
 - Requires anesthesia / No anesthesia needed?
 - Involves cutting or clipping / Does not involve cutting or clipping?
 - Causes short term (1-3 months) changes in menstrual bleeding / Causes longer term (>3months) changes in menstrual bleeding?
 - There would be vaginal discharge for 1-7 days / There would be vaginal discharge for longer than a week?
 - The method would be immediately effective / You would need to use another method of contraception for 3 months?
 - Requires a follow up visit and a special examination to make sure the method has worked correctly / Does not need another examination?
 - Can be done immediately following a vaginal delivery or C-section?
 - Can be done as early as 4-6 weeks after a vaginal delivery?
 - Is safe to perform while breast-feeding?
- 35) Currently, a special exam can demonstrate if a permanent contraceptive surgery has completely blocked the tubes, but this requires a pelvic exam and an X-ray. If a method of permanent contraception were 99% effective, would it be important for you to come back for a confirmation test visit? [PROMPT: If the method were 90% effective, would your answer differ?]

Interview guide: Mothers-in-Law

1. What is your age?
2. What is your religion?
 - a. Hindu
 - b. Muslim
 - c. Buddhist
 - d. Christian
 - e. Sikh
 - f. Jain
 - g. Any other_____
3. What is your caste identity?
 - a. Open
 - b. ST
 - c. SC
 - d. OBC
 - e. NT
 - f. Any other (specify)_____

4. What is the highest level of education you have attained?
 - a. Illiterate
 - b. Some primary school (up to 7th class)
 - c. Secondary school education (8th-10th)
 - d. Higher secondary school (11th or 12th)
 - e. Some higher education (college, university)
 - f. College or University degree (BA, BBA, B.Sc., B.Sc.IT, B.E., B.Tech, MBBS)
 - g. Post-Graduate degree

5. What is your marital status?
 - a. Married
 - b. Divorced
 - c. Separated
 - d. Widowed

6. At what age did you get married?
7. What kind of influence do you feel you have in your household or family?
8. Who do you think you influence the most?
9. How would you describe your relationship with your son(s)?
10. Does your son ever disagree with you? If so, what are the issues?
11. How would you describe your relationship with your daughter(s)-in-law?
12. Does your daughter-in-law disagree with you? If so, what happens? What issues does she disagree with you on? [PROMPT: If not, why do you think that is?]
13. Whom do you have more influence over—your daughter-in-law or your son? [PROMPT: can you explain why?]
14. How many pregnancies have you had?
15. At what age was your first pregnancy?
16. What were the outcomes of your pregnancies [PROMPT: normal delivery, miscarriage, abortion, ectopic pregnancy]?
17. How many (live) children do you have?
18. Please list the methods of contraception that you know.
19. Have you used contraception before? [If NO, proceed to Question 23]
 What methods have you used?
 [If sterilization is listed, go to Question 20; if not, go to Question 21]

20. What was your experience with sterilization?
 - a. Why did you decide to get sterilized?
 - b. Did you discuss this method with your husband?

21. Have you ever had any problems with bleeding while using a contraceptive method?
 If yes,
 What was it that bothered you most about bleeding? [PROMPT: inconvenience, health concerns, persistence of bleeding]

How did the bleeding affect your use of that method? [PROMPT: Did it cause you to discontinue use?]

How long would you be willing to experience irregular bleeding when using a method of contraception?

22. Apart from bleeding, have you had any other problems with using contraceptive methods?
23. Do you think it is ok to choose a method of contraception if your family members or husband are opposed to it?
24. What do you think about sterilization? [PROMPT: do you have any concerns about *nas bandi*]
25. What do people in your community say about *nas bandi*? [PROMPT: husband, family members, friends]
26. What do you think about having sterilization surgery at the time of delivery?
27. Have you had surgery before? [PROMPT: What kind of surgery?]
What do you think makes something surgical? [PROMPT: operating room? Getting “put to sleep”? Cutting, scar, having something put inside your body?]
28. Are you comfortable with the idea of surgery for permanent contraception? [PROMPT: do you have specific concerns regarding surgery? Is there anything about surgical sterilization that is appealing to you?]
29. If a safe and effective method of permanent contraception could be provided without surgery, would this interest you? [PROMPT: What specifically would interest you about such a method and why?]
30. What kind of healthcare professional should provide permanent contraception for women? [Specialty doctor/ObGyns; Doctor; LHVs; ANMs]

Survey for married men

1. What is your age?
2. How many children do you have?
 - a. 1
 - b. 2
 - c. 3
 - d. 4 or more
3. Would you like to have more children?
 - a. Yes. If so, how many?_____
 - b. No
4. What is the highest level of education you have attained?
 - a. Illiterate
 - b. Some primary school (up to 7th class)
 - c. Secondary school (8th-10th)
 - d. Higher secondary school (11th or 12th class)
 - e. Some higher education (college, university)
 - f. College or University degree (BA, BBA, B.Sc, B.Sc.IT, B.E., B.Tech, MBBS)

- g. Post-Graduate degree
5. What is your religion?
- a. Hindu
 - b. Muslim
 - c. Buddhist
 - d. Christian
 - e. Sikh
 - f. Jain
 - g. Other_____
6. What is your caste identity?
- a. Open
 - b. ST
 - c. SC
 - d. OBC
 - e. NT
 - f. Any other (specify)_____
7. What is your occupation?
- a. Unemployed
 - b. Farmer
 - c. Agricultural laborer
 - d. Service
 - e. Business
 - f. Any other (specify)_____
8. How often do you discuss contraception with your wife?
- a. Frequently
 - b. Sometimes
 - c. Rarely
 - d. Never
9. How would you describe your opinion of *'istri nas bandi* (female sterilization)?
- a. It is a good method, and I'm interested in it (now or in the future)
 - b. It is a good method, but I am not interested in it (now or in the future)
 - c. I do not like this method and am not interested in it (now or in the future)
 - d. I am unsure.
 - e. My wife has undergone sterilization; I am pleased with the method
 - f. My wife has undergone sterilization; I am not pleased with the method
10. How would you describe your opinion of *purush nas bandi* (vasectomy)?
- a. It is a good method, and I'm interested in it (now or in the future)
 - b. It is a good method, but I am not interested in it (now or in the future)
 - c. I do not like this method and am not interested in it (now or in the future)
 - d. I am unsure.

- e. I have undergone a vasectomy and like the method
- f. I have undergone a vasectomy and do not like the method

11. For the following questions, consider your own relationship and indicate your level of agreement (circle your answer). *If your wife was discussing using a permanent method of contraception (sterilization):*

I would prefer to have a vasectomy

Strongly disagree Disagree Neutral Agree Strongly Agree

I would support her decision to undergo surgical sterilization

Strongly disagree Disagree Neutral Agree Strongly Agree

I would be uncomfortable with my wife undergoing sterilization because it would involve surgery

Strongly disagree Disagree Neutral Agree Strongly Agree

If a method of female sterilization were safe and effective without surgery, I would prefer that for my wife

Strongly disagree Disagree Neutral Agree Strongly Agree

12. If you had to choose between surgical sterilization and non-surgical sterilization for your partner, which would you choose?
- a. Surgical sterilization
 - b. Non-surgical sterilization

Focus Group Script, providers

CATEGORY 1: Attitudes towards sterilization & surgery

- 1) What challenges (if any) have you encountered when discussing permanent or long-term contraceptive options with your patients who have completed childbearing? (surgical sterilization, vasectomy) [PROMPT: what about fear of surgery? Concerns that it will affect men’s libido, etc.]
- 2) Doctors often assume that patients will prefer a nonsurgical procedure to surgery. Do you think this is a correct assumption? [PROMPT: What makes you think so? Why?]
- 3) It is common in India for surgical sterilization to happen after delivery. What is your opinion about this post-partum moment—how do you feel it affects women’s choices for contraception?

CATEGORY 2: Responses to nonsurgical permanent contraception

A nonsurgical method of permanent contraception is in development. The technique would be office-based, and similar to the placement of an IUD. This method would use a catheter similar to those used during an HSG for transcervical delivery of a sclerosing foam. There would be no

need for specialized equipment or ultrasound. Anesthesia would not be required. Our preliminary results suggest that a single dose of DMPA can improve the effectiveness of the approach.

- 4) What are your concerns (if any) about this method? [PROMPT: safety; efficacy; timing; concerns about the use of hormonal method like Depo]
- 5) If this procedure were as effective as surgical sterilization, what factors would lead you to consider using it? (cost, use in office, single visit, no confirmation test)
- 6) Should this procedure be done by doctors only, or LHVs or ANMs?
- 7) What kind of education do you think would be necessary for this new method? [PROMPT: who should talk to patients about this method (doctors, LHVs, ANMs, or someone else)?]
- 8) Assuming the method was 99% effective, do you think patient follow-up for post-procedure confirmation test would be necessary for this method? How effective would the method need to be to make a confirmation test unnecessary?
- 9) Similar to the current Essure procedure, it is expected that the new method would require backup contraception for 2-3 months. What are your thoughts about routine use of DMPA at the time of the procedure? [PROMPT: What about the use of a GnRH (Gonadotropin releasing hormone) agonist like depoLupron (brand name) (leuprolide acetate)?]
- 10) Do you have any ethical concerns with this method? [PROMPT: marginalized populations being unfairly targeted, women not being well informed]

Focus Group Script, Advocates

CATEGORY 1: Attitudes towards new contraceptive methods

1. What are your thoughts on the development of new contraceptive methods?
2. What are your thoughts about new contraceptive methods being introduced in India? [PROMPT: How do you think new contraceptive technology should be introduced in India?]
3. What kind of contraceptive methods do you think are needed in India? [PROMPT: What methods make sense for the specific social, political, and cultural context of India? Why?]
4. What do you feel is the biggest challenge of introducing a new method of contraception in India? [PROMPT: Why?]
5. What are your concerns, if any, about introducing new methods of contraception to India?

6. In recent years, the Indian government has tightened regulations of clinical trials in India due to previous poorly-managed trials, such as those relating to quinacrine. How do you think India's experience with quinacrine has influenced people's openness to new contraceptive methods? How?

CATEGORY 2: Attitudes towards permanent contraception

A nonsurgical method of permanent contraception is in development. The technique would be office-based, and similar to the placement of an IUD. This method would involve placing a thin catheter through the cervix in order to deliver a sclerosing foam into the uterus and fallopian tubes. There would be no need for specialized equipment or ultrasound. Anesthesia would not be required. Our preliminary results suggest that a single dose of DMPA (Depo-Provera) can improve the effectiveness of the approach.

7. What concerns would you have about such a method? [PROMPT: safety; efficacy; timing; concerns about the use of hormonal method like Depo]
8. What aspects do you find appealing about this method? [PROMPT: do you think women would be interested in this method? Why or why not?]
9. Who do you feel should perform this procedure: Doctors, LHVs, and/or ANMs?
10. If this method were safe and effective, what kind of education do you think would be needed to explain it to women in India?
11. Do you have any ethical concerns with this method? [PROMPT: marginalized populations being unfairly targeted, women not being well informed]