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| *Population size estimates provide the quantitative information useful for designing HIV programmes, advocating for resources or policy changes, and facilitating program monitoring and evaluation. Several size estimation methods may be conducted as part of a BBS.*  *Privatized network sampling (PNS) is one method used for population size estimation (PSE). There is flexibility in what information it is required to get the estimate, such as digits collected, initials, who is named by the participant, and so on. This information is important to gather during formative assessment to consider how they might affect the estimates. Some questions may change based on KP preferences.*  *The unique object multiplier method or three-source capture recapture (using the unique object distribution) rely on the ability to access and broadly distribute a particular unique object to members of the key population just prior to the launch of the survey. During administration of the survey questionnaire, participants are asked if they received the unique object that was distributed. Additional questions may inform the validity of the responses. The BBS Guidelines provide more details on these methods and describe additional methods for consideration.*  *This module should be administered face-to-face by an interviewer.* |

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|  | **Topic** | **New or Revision** | **Var ID** | **Question** | **Responses** | **Programming Notes** | **Rationale** |
| **Questions to include after informed consent and to be determined by staff consenting** | | | | | | | |
| **Privatized network sampling (PNS)** | | | | | | | |
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| 1 | PNS | NEW | RCDGREF | Now think about the kind of people we are looking for in this survey. How many <target population> do you know and who know you? | Number |\_\_\_|\_\_\_| |  | This is the standard RDS network question. Replace the wording with whatever network size elicitation is appropriate for the survey. |
| 2 | PNS | NEW | PNSRCDGREF  *Degree peers with known phone* | Now, of the <RCDGREF> friends you mentioned earlier, for how many of these do you know their phone numbers? | ##  Max: RCDGREF |  | This is the PNS network size question, which restricts network size to those whose ID info is known. |
| 3 | PNS | NEW | PIHASHID  *Recruit’s hashed ID* |  | Construct Hash ID in Hashing App with last 6 digits of recruit’s phone number. | Hash ID construction in Hashing App. |  |
| 4 | PNS | NEW | PNSMSG1 | Now, this survey also tries to understand how many <*target population*> live in this town.  For the friends you may be able to give a coupon, what are the **last 6 digits of their phone number**?  If they have two phone numbers, pls tell me the last 6 digits of the cell phone that you most commonly use with other members of your community. We do not store this information; we will use it only to create a unique code.  If you have more than 5 friends, please choose 5 at random. |  | Skip if RCDGREF>5 |  |
| 5 | PNS | NEW | PNSPEER1A  *1st peer hash ID* | Ok, for the 1st of these <PNSRCDGREF> peers, what is the:  Last digits of 1st phone Nr.: | Enter these values in the Hashing App. Only the hashed ID will be stored. |  |  |
| 6 | PNS | NEW | PNSPEER2A  *2nd peer hash ID* | Repeat above for 2nd peer |  |  |  |
| 7 | PNS | NEW | PNSPEER3A  *3rd peer hash ID* | Repeat above |  |  |  |
| 7 | PNS | NEW | PNSPEER4A  *4th peer hash ID* | Repeat above |  |  |  |
| 7 | PNS | NEW | PNSPEER5A  *5th peer hash ID* | Repeat above |  |  |  |