

Supplementary File 1

INTERVIEW GUIDE FOR KIIs

1. Can you describe your experience with implementing DSD for HIV in your facility?

Probe questions:

- *What specific models of DSD have you used?*
- *How has the implementation process been for you?*
- *What have been the most rewarding aspects of implementing DSD?*

2. What challenges have you encountered while delivering DSD for HIV?

Probe questions:

- *Can you provide examples of specific situations where you faced these challenges?*
- *How have these challenges affected your ability to deliver care?*
- *Have you noticed any patterns in the challenges faced by your colleagues?*

3. How do you perceive the impact of DSD on patient outcomes, such as adherence and viral load suppression?

Probe questions:

- *Can you share any success stories or notable improvements in patient outcomes?*
- *Have you observed any areas where DSD may not be as effective?*
- *What feedback have you received from patients regarding DSD?*

4. What training and support have you received to implement DSD, and how adequate do you think it has been?

Probe questions:

- *What kind of training did you find most beneficial?*
- *Are there areas where you feel additional training is needed?*
- *How have support systems (e.g., from supervisors or external bodies) influenced your work with DSD?*

5. How do national or state-level HIV policies impact the implementation of DSD at your facility?

Probes questions:

- *Are there particular policies that are especially beneficial or problematic?*
- *How do you navigate conflicts between national and local policies?*

Interview Guide for Focus Group Discussion Questions

1. What strategies have you and your team employed to overcome the challenges in implementing DSD?

Probe questions:

- *Can you discuss any successful initiatives or changes you've made?*
- *How have these strategies impacted your workflow and patient care?*
- *Are there strategies that have not worked as well as expected?*

2. How do you ensure that patients remain engaged and adherent to their treatment plans under the DSD model?

Probe questions:

- *What specific methods or tools do you use to promote adherence?*
- *How do you address non-adherence when it occurs?*
- *Have you involved patients in developing these strategies? If so, how?*

3. What role does interprofessional collaboration play in the implementation of DSD in your facility?

Probe questions:

- *How do different members of the healthcare team contribute to DSD?*
- *Can you provide examples of successful collaboration?*
- *What challenges have you faced in fostering effective teamwork?*

4. In your opinion, what improvements could be made to enhance the effectiveness of DSD in your setting?

Probe questions:

- *What changes would you prioritize if resources were available?*
- *How do you think these improvements would impact patient care and outcomes?*
- *What role do you see for policymakers and healthcare administrators in facilitating these improvements?*