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Title: Role of Community Case Workers in ART Adherence and HIV Viral Load Suppression.

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- **Background:** HIV Viral load suppression is among the UNAIDS 95 95 95 targets which contribute to Epidemic control. It is evident that ART adherence of more than 99 % is the cornerstone to HIV Viral suppression, which is the third 95. HIV Viral Load suppression is achieved when ART adherence is more than 95%.

- **Methods:** Retrospective Cross-sectional comparison was made among 5,129 C/ALHIV (0-17 years old) Beneficiaries enrolled into OVC Program who are currently receiving ART (OVC TX_CURR) to their counterpart 890 non-OVC Beneficiaries. HVL results were generated from CTC2 Database. Six months and above on ART treatment were considered as duration inclusion criteria. CLHIV under OVC program received individualized service package through CCWs using the developed care plan.

- **Results:** Currently, there is a total of 5,129 TX_CURR C/ALHIVs, among them 4,239 (82.6%) are enrolled into OVC Program and linked to CCWs. 890 of C/ALHIVs aged 0-17yrs out of total of 5,129 are not enrolled into OVC Program (17.3%). Among those who are enrolled into OVC Program, 4,010 (95%) are HVL Suppressed and 229 (5%) are not HVL Suppressed. Among 890 C/ALHIVs who are not enrolled into OVC Program, 614 (67%) are HVL Suppressed and 276 (31%) are not Suppressed.

- **Conclusion:** CCWs through the individualized service package are key to supporting required ART adherence, and eventual HVL suppression to CLHIV on ART. Community interventions to support ART adherence are important as ART clients spend most of their time at the community than at the facilities.