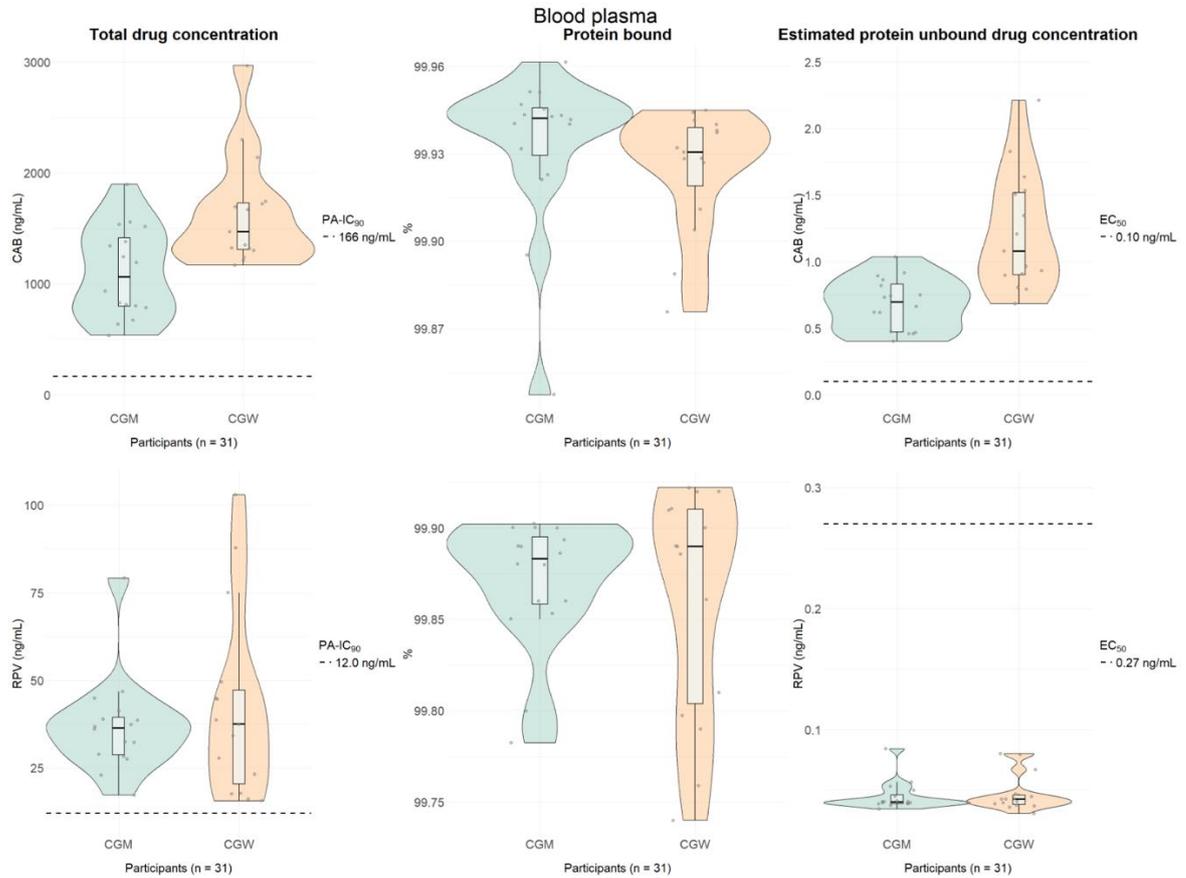


Supplementary Material

Figure 1S. Cabotegravir and Rilpivirine Concentrations in blood plasma



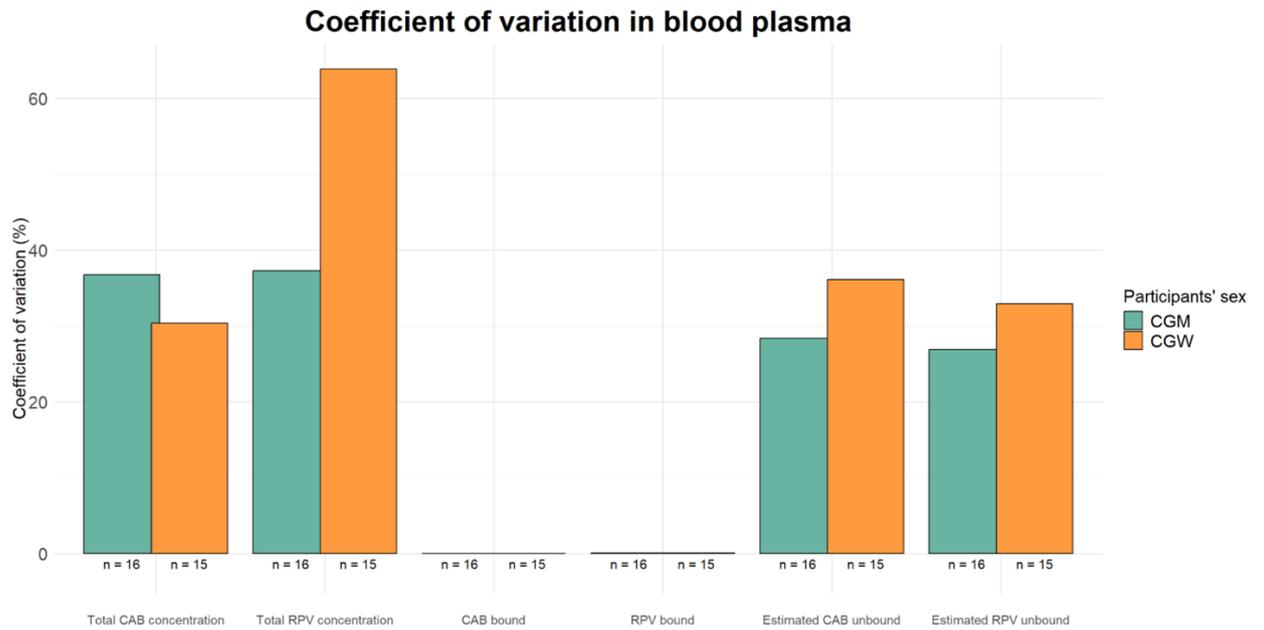
CGM: cisgender men; CGW: cisgender women.

Table 1S. Coefficient of Variation of Cabotegravir and Rilpivirine concentrations in blood plasma

	Total Drug C _{trough} (%)	Protein-bound (%)	Estimated Protein-unbound C _{trough} (%)
Cabotegravir	CGW 30.36 ; CGM 36.75	CGW 0.02 ; CGM 0.03	CGW 36.16 ; CGM 28.4
Rilpivirine	CGW 63.89 ; CGM 37.3	CGW 0.06 ; CGM 0.04	CGW 32.94 ; CGM 26.9

CGM: cisgender men; CGW: cisgender women.

Figure 2S. Coefficient of Variation of Cabotegravir and Rilpivirine concentrations in blood plasma



CGM: cisgender men; CGW: cisgender women.

Figure 3S. Cabotegravir and Rilpivirine Concentrations in seminal plasma

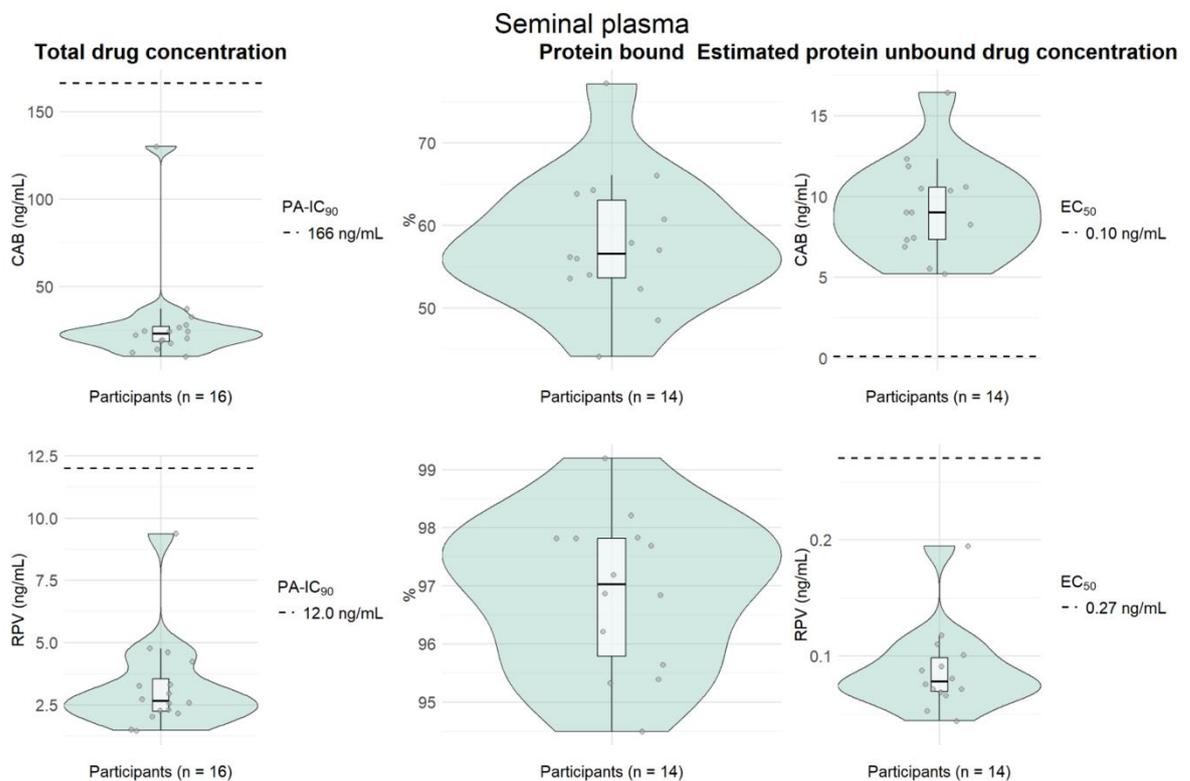


Table 2S. Coefficient of Variation of Cabotegravir and Rilpivirine concentrations in seminal plasma

	Total Drug C_{trough} (%)	Protein-bound (%)	Estimated Protein-unbound Ctrough (%)
Cabotegravir	96.11	14.16	31.99
Rilpivirine	58.68	1.37	41.91

Figure 4S. Coefficient of Variation of Cabotegravir and Rilpivirine concentrations in seminal plasma

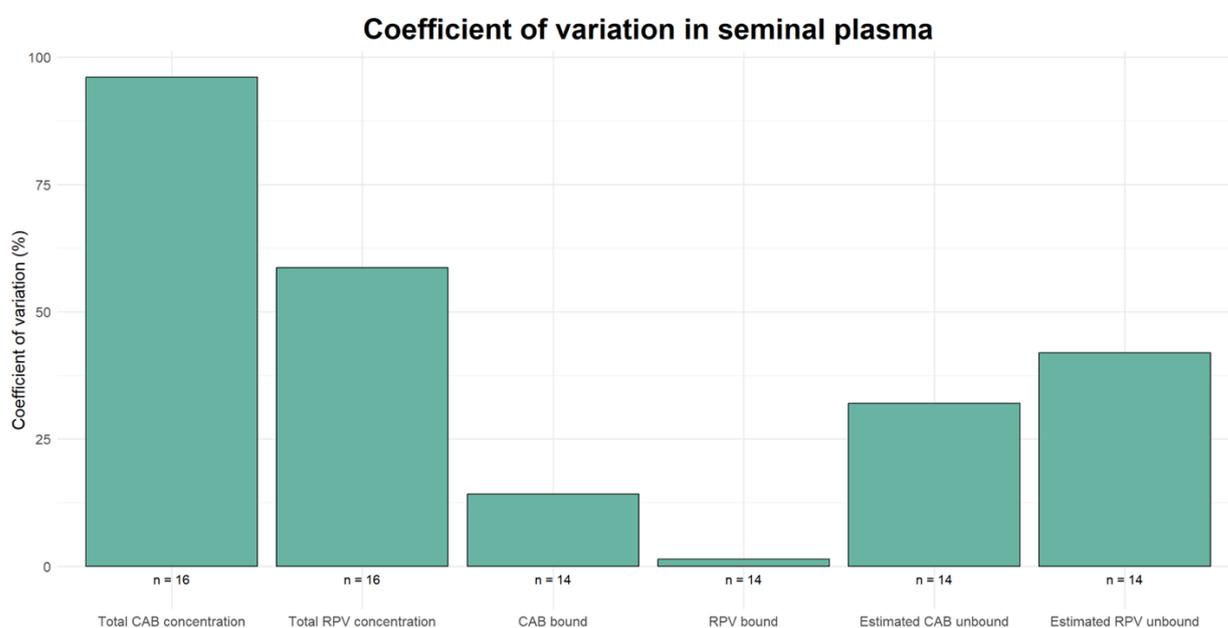


Figure 5S. Cabotegravir and Rilpivirine Concentrations in rectal tissue

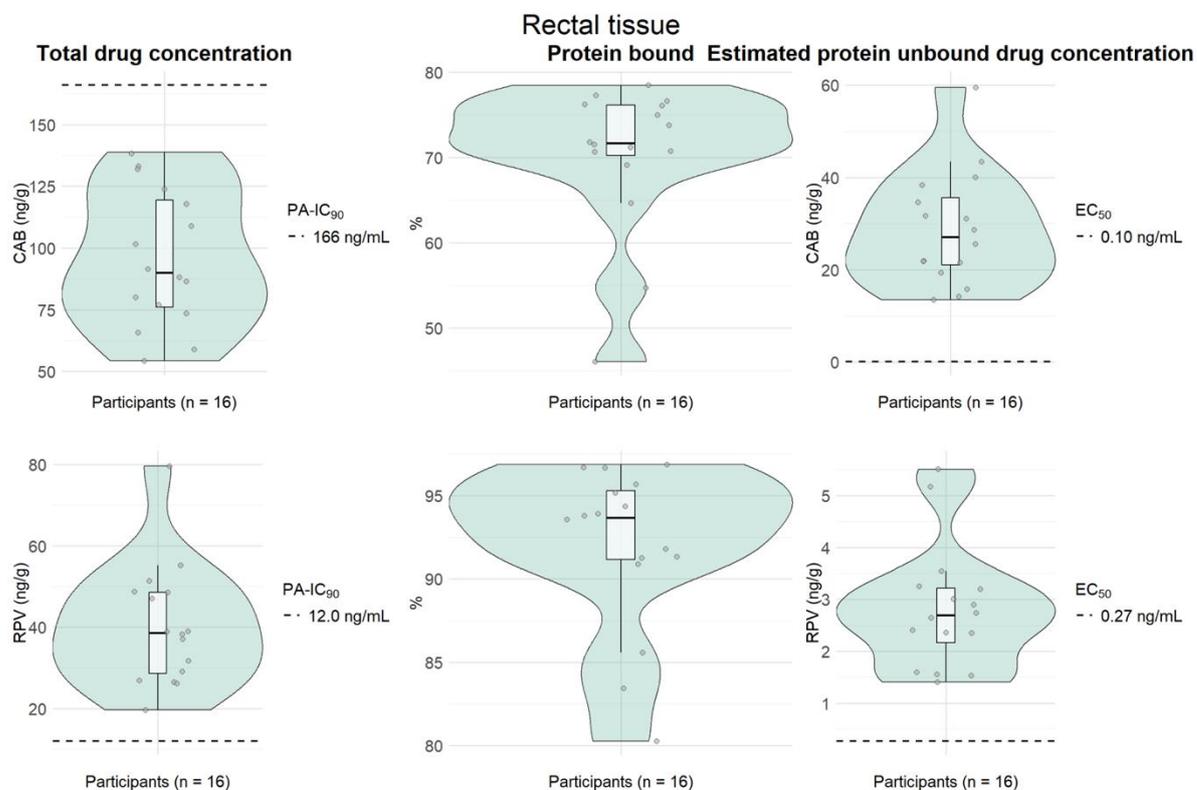


Table 3S. Coefficient of Variation of Cabotegravir and Rilpivirine concentrations in rectal tissue

	Total Drug C _{trough} (%)	Protein-bound (%)	Estimated Protein-unbound Ctrough (%)
Cabotegravir	28.51	12.35	42.81
Rilpivirine	36.76	5.33	41.94

Figure 6S. Coefficient of Variation of Cabotegravir and Rilpivirine concentrations in rectal tissue

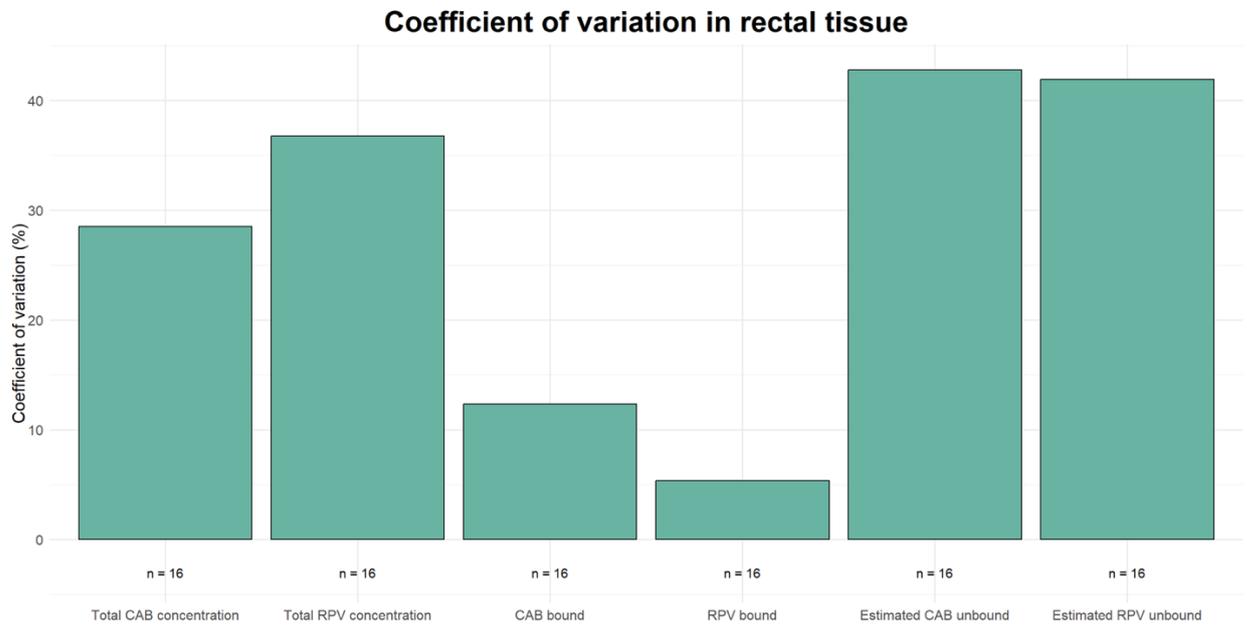


Figure 7S. Cabotegravir and Rilpivirine Concentrations in cervicovaginal fluid

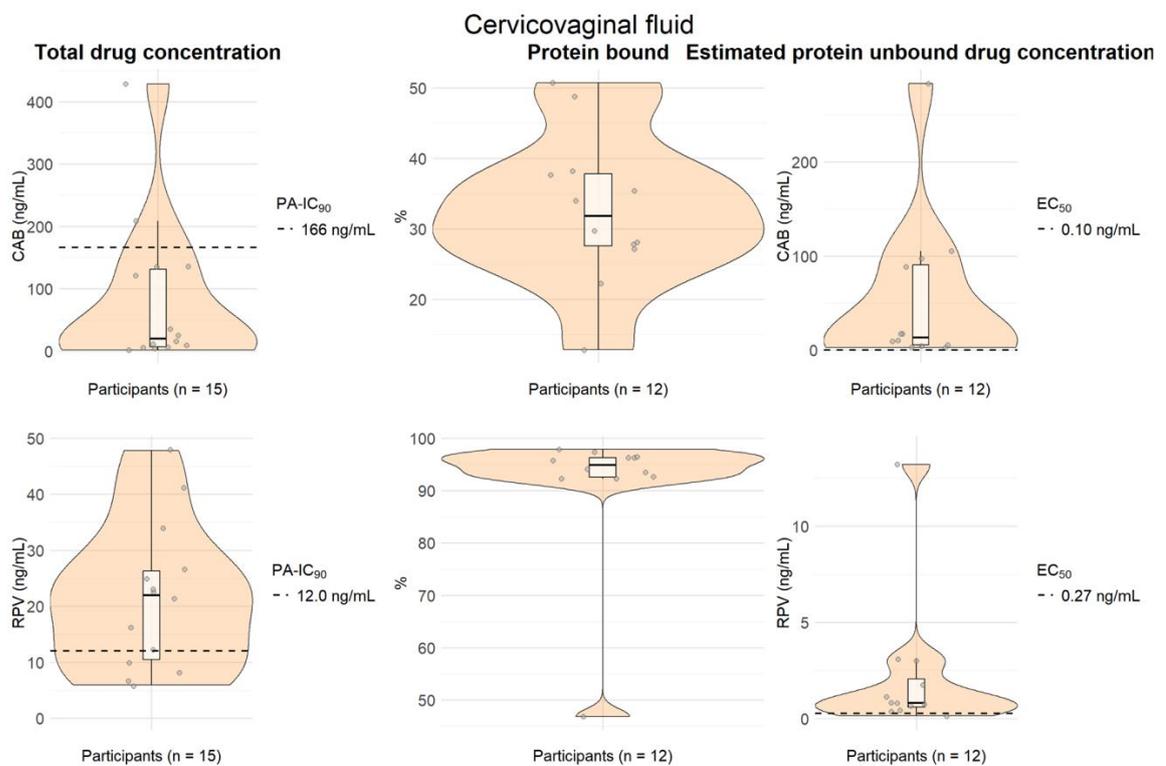


Table 4S. Coefficient of Variation of Cabotegravir and Rilpivirine concentrations in cervicovaginal fluid

	Total Drug C_{trough} (%)	Protein-bound (%)	Estimated Protein-unbound C_{trough} (%)
Cabotegravir	154.2	32.38	153.54
Rilpivirine	67.76	15.43	165.63

Figure 8. Coefficient of Variation of Cabotegravir and Rilpivirine concentrations in cervicovaginal fluid

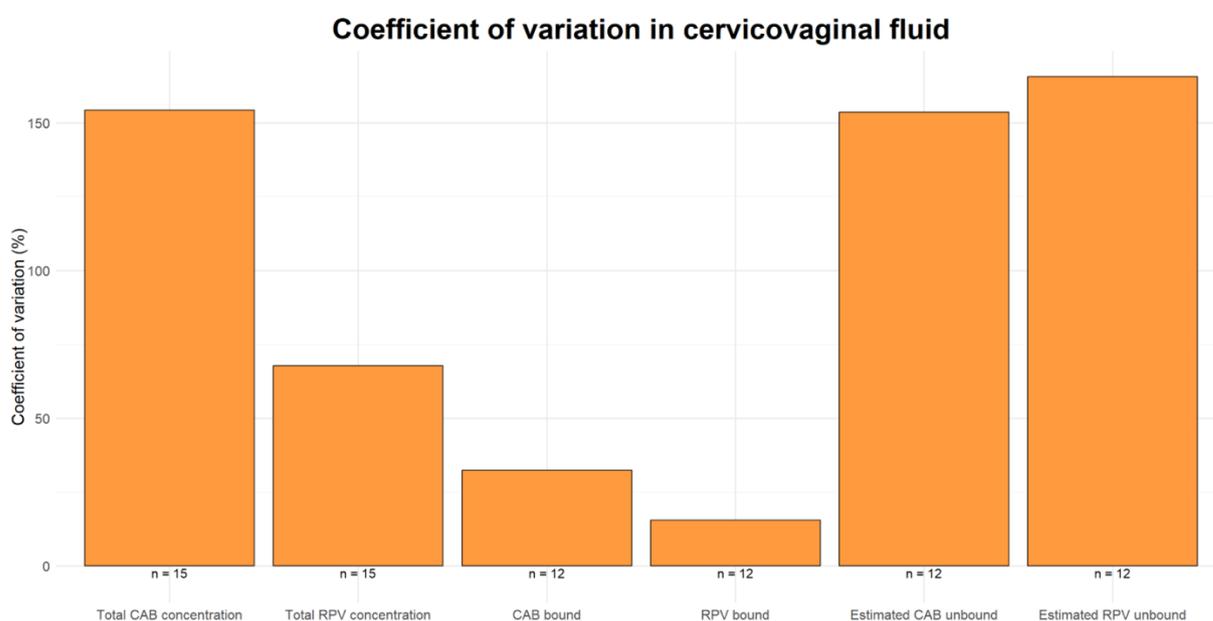


Figure 9S. Correlation between Cabotegravir and Rilpivirine concentrations in seminal, rectal fluid and blood plasma. Correlation between Cabotegravir and Rilpivirine concentrations at each compartment.

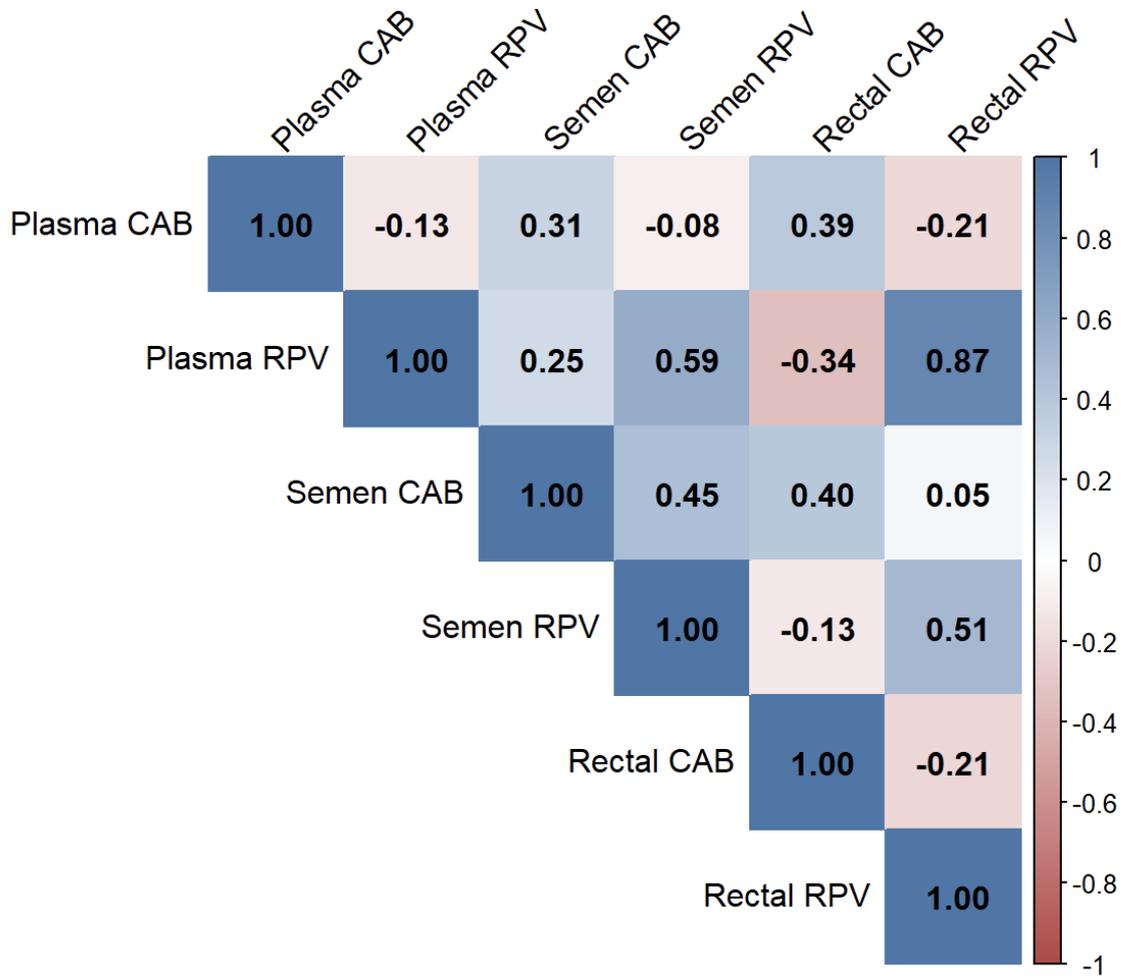


Table 5S. Correlation between Cabotegravir and Rilpivirine concentrations in seminal, rectal fluid and blood plasma. Correlation between Cabotegravir and Rilpivirine concentrations at each compartment.

Spearman Correlation Analysis		
Variable 1	Variable 2	Spearman Correlation [95% CI]
Plasma CAB	Plasma RPV	-0.126 [-0.669;0.473]
Plasma CAB	Semen CAB	0.306 [-0.33;0.727]
Plasma CAB	Semen RPV	-0.081 [-0.718;0.527]
Plasma CAB	Rectal CAB	0.388 [-0.12;0.841]
Plasma CAB	Rectal RPV	-0.209 [-0.683;0.33]
Plasma RPV	Semen CAB	0.253 [-0.257;0.648]
Plasma RPV	Semen RPV	0.59 [0.167;0.845]
Plasma RPV	Rectal CAB	-0.344 [-0.787;0.256]
Plasma RPV	Rectal RPV	0.871 [0.56;0.964]
Semen CAB	Semen RPV	0.455 [-0.077;0.821]
Semen CAB	Rectal CAB	0.397 [-0.118;0.798]
Semen CAB	Rectal RPV	0.053 [-0.4;0.506]
Semen RPV	Rectal CAB	-0.127 [-0.694;0.49]
Semen RPV	Rectal RPV	0.509 [-0.03;0.857]
Rectal CAB	Rectal RPV	-0.215 [-0.788;0.433]

Figure 10S. Correlation between Cabotegravir and Rilpivirine concentrations in cervicovaginal fluid and blood plasma. Correlation between Cabotegravir and Rilpivirine concentrations at each compartment.

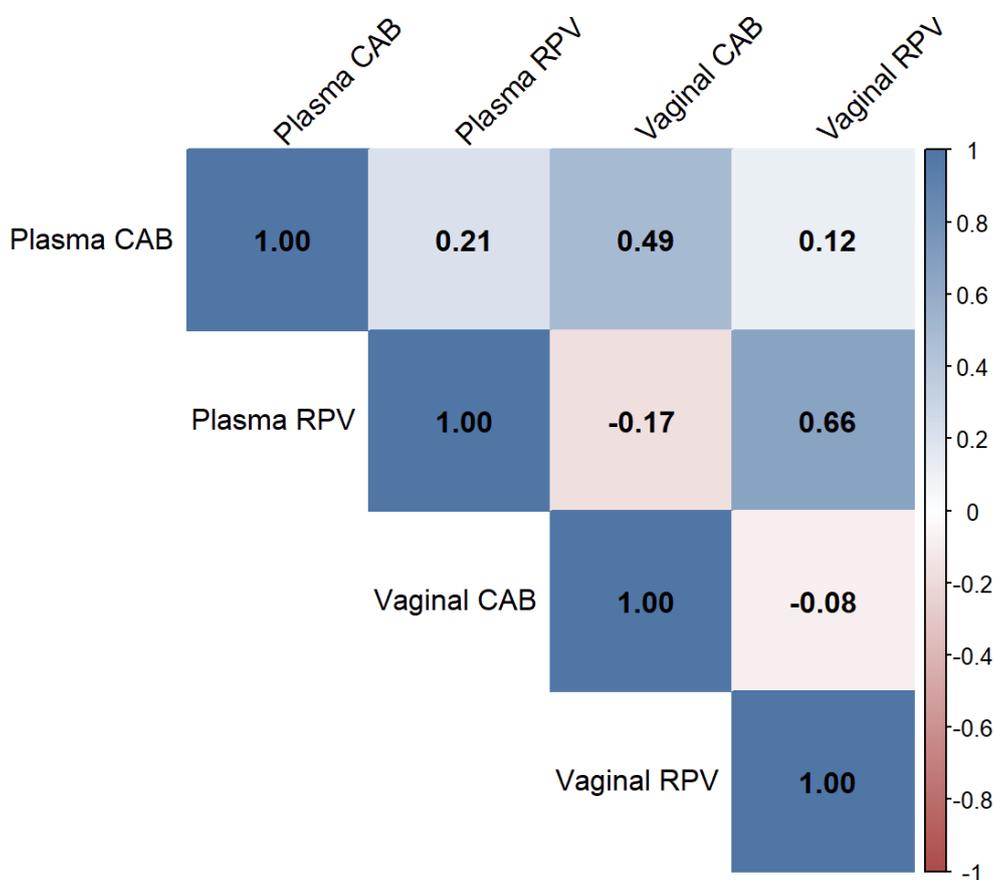


Table 6S. Correlation between Cabotegravir and Rilpivirine concentrations in cervicovaginal fluid and blood plasma. Correlation between Cabotegravir and Rilpivirine concentrations at each compartment.

Spearman Correlation Analysis		
Variable 1	Variable 2	Spearman Correlation [95% CI]
Plasma CAB	Plasma RPV	0.209 [-0.348;0.713]
Plasma CAB	Vaginal CAB	0.492 [-0.078;0.854]
Plasma CAB	Vaginal RPV	0.12 [-0.461;0.631]
Plasma RPV	Vaginal CAB	-0.168 [-0.652;0.409]
Plasma RPV	Vaginal RPV	0.664 [0.237;0.871]
Vaginal CAB	Vaginal RPV	-0.082 [-0.594;0.502]