

Supplementary Table I Distribution of participants among the subdistricts of Rio de Janeiro, stratified by virologic and non-virologic suppression

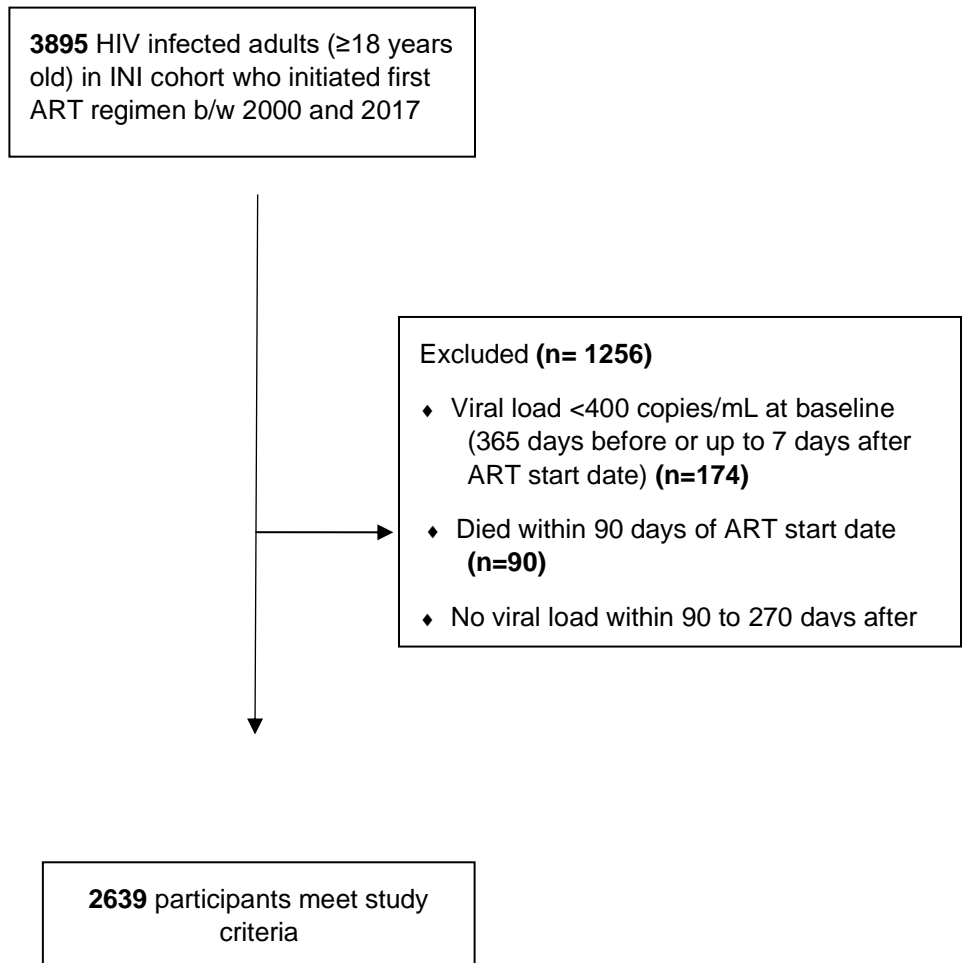
Subdistrict	Virologic suppression n= 2214 (83.9%)	Non-virologic suppression n= 425 (16.1%)	Total n= 2639 (100%)	Area (km ²)	Population (people)	Population density (people/km ²)
Rio De Janeiro City	1463 (66.0)	292 (68.7)	1755 (66.5)			
Anchieta	48 (2.2)	9 (2.1)	57 (2.2)	14.02	158,318	11,292.30
Bangu	83 (3.7)	14 (3.3)	97 (3.7)	42.31	428,035	10,116.64
Barra Da Tijuca	52 (2.3)	5 (1.2)	57 (2.2)	106.09	300,823	2,835.54
Botagofo	44 (2)	9 (2.1)	53 (2)	12.07	239,729	19,861.56
Campo Grande	86 (3.9)	21 (4.9)	107 (4.1)	107.64	542,084	5,036.08
Centro	50 (2.3)	10 (2.4)	60 (2.3)	5.35	41,142	7,690.09
Cidade De Deus	10 (0.5)	2 (0.5)	12 (0.5)	1.21	37,730	31,181.82
Complexo Do Alemao	10 (0.5)	6 (1.4)	16 (0.6)	2.42	69,143	28,571.49
Copacabana	50 (2.3)	17 (4)	67 (2.5)	4.18	161,191	38,562.44
Guaratiba	15 (0.7)	4 (0.9)	19 (0.7)	130.35	123,114	944.49
Ilha De Paqueta	1 (0)	0 (0)	1 (0)	1.56	3,361	2,154.49
Ilha Do Governador	42 (1.9)	6 (1.4)	48 (1.8)	41.31	212,574	5,145.82
Inhauma	41 (1.9)	10 (2.4)	51 (1.9)	10.00	134,349	13,434.90
Iraja	55 (2.5)	9 (2.1)	64 (2.4)	14.23	202,952	14,262.26
Jacarepagua	116 (5.2)	17 (4)	133 (5)	74.58	521,542	6,993.05
Jacarezinho	6 (0.3)	2 (0.5)	8 (0.3)	0.94	37,839	40,254.26
Lagoa	16 (0.7)	7 (1.6)	23 (0.9)	14.38	167,774	11,667.18
Madureira	106 (4.8)	15 (3.5)	121 (4.6)	26.56	371,968	14,004.82
Mare	38 (1.7)	8 (1.9)	46 (1.7)	4.11	129,770	31,574.21
Meier	83 (3.7)	24 (5.6)	107 (4.1)	2.40	399,358	166,399.17
Pavuna	50 (2.3)	11 (2.6)	61 (2.3)	17.31	158,318	9,146.04
Penha	56 (2.5)	12 (2.8)	68 (2.6)	13.50	185,716	13,756.74
Portuaria	10 (0.5)	2 (0.5)	12 (0.5)	8.45	48,664	5,759.05
Ramos	79 (3.6)	16 (3.8)	95 (3.6)	11.18	153,177	13,700.98
Realengo	53 (2.4)	11 (2.6)	64 (2.4)	43.17	243,006	5,629.05
Rio Comprido	22 (1)	4 (0.9)	26 (1)	4.50	78,975	17,550.00
Rocinha	3 (0.1)	0 (0)	3 (0.1)	0.46	69,356	150,773.91
Santa Cruz	67 (3)	7 (1.6)	74 (2.8)	161.17	368,534	2,286.62
Santa Teresa	19 (0.9)	3 (0.7)	22 (0.8)	1.85	40,926	22,122.16
Sao Cristovao	36 (1.6)	7 (1.6)	43 (1.6)	6.79	11,975	1,763.62
Tijuca	21 (0.9)	10 (2.4)	31 (1.2)	6.67	181,653	27,234.33
Vigario Geral	52 (2.3)	11 (2.6)	63 (2.4)	11.33	136,171	12,018.62
Vila Isbael	43 (1.9)	3 (0.7)	46 (1.7)	8.06	189,310	23,487.59
Belford Roxo	91 (4.1)	6 (1.4)	97 (3.7)	77.82	469,332	6,031.38
Duque De Caxias	167 (7.5)	30 (7.1)	197 (7.5)	467.62	855,048	1,828.51

Guapimirim	4 (0.2)	0 (0)	4 (0.2)	360.78	51,483	142.70
Itaborai	9 (0.4)	2 (0.5)	11 (0.4)	430.38	218,008	506.55
Itaguaí	8 (0.4)	1 (0.2)	9 (0.3)	275.87	109,091	395.45
Japeri	10 (0.5)	1 (0.2)	11 (0.4)	81.87	95,492	1,166.37
Mage	20 (0.9)	1 (0.2)	21 (0.8)	388.50	227,322	585.13
Maricá	9 (0.4)	1 (0.2)	10 (0.4)	363.08	127,641	351.55
Mesquita	21 (0.9)	4 (0.9)	25 (0.9)	39.06	168,376	4,310.48
Nilópolis	33 (1.5)	5 (1.2)	38 (1.4)	19.39	157,425	8,117.62
Niterói	29 (1.3)	8 (1.9)	37 (1.4)	133.92	487,562	3,640.80
Nova Iguaçu	191 (8.6)	38 (8.9)	229 (8.7)	520.59	795,257	1,527.60
Paracambi	4 (0.2)	2 (0.5)	6 (0.2)	179.68	47,124	262.27
Queimados	14 (0.6)	5 (1.2)	19 (0.7)	75.60	137,792	1,822.60
São Gonçalo	54 (2.4)	8 (1.9)	62 (2.3)	247.71	999,728	4,035.90
São João de Meriti	83 (3.7)	20 (4.7)	103 (3.9)	35.22	458,673	13,024.56
Seropédica	4 (0.2)	1 (0.2)	5 (0.2)	283.77	78,186	275.53

Supplementary Table II Neighborhood socioeconomic status among included and excluded participants

	Participants included in analysis n= 2639 (72.7%)	Participants excluded for missing viral load n= 992 (27.3%)	Total n= 3631 (100%)	Test statistic (chi-square)	P value
MHDI (IQR)	0.683 (0.587, 0.758)	0.685 (0.586, 0.766)	0.683 (0.587, 0.762)		0.58
MHDI category				3.56 (2df)	0.17
High- Very High	1138 (43.1)	443 (44.7)	1581 (43.5)		
Medium	761 (28.8)	255 (25.7)	1016 (28.0)		
Very low- low	740 (28.0)	294 (29.6)	1034 (28.5)		
SVI median (IQR)	0.301 (0.226, 0.362)	0.299 (0.220, 0.365)	0.299 (0.223, 0.364)		0.36
SVI category				1.17 (2df)	0.57
Low- Very Low	1314 (49.9)	503 (51.0)	1817 (50.2)		
Medium	938 (35.6)	333 (33.8)	1271 (35.1)		
High- Very High	389 (14.4)	150 (15.2)	530 (14.6)		

Supplementary Figure I Study participant flow chart



Supplementary Figure II Percentage of participants achieving viral suppression as a function of ART initiation year

