

DET DANSKE HIV KOHORTE STUDIUM

&

DANHIV

22. udgave, 2025



**STATENS
SERUM
INSTITUT**

Forord

Nærværende rapport er en status over DANHIV/Det Danske HIV Kohorte Studies (DHK) arbejde frem til udgangen af 2025.

Rapporten fokuserer på nationale analyser. Der er for visse parametre angivet data for de separate regioner. Dog er Region Hovedstaden delt op i Rigshospitalet (inklusive Herlev) og Hvidovre (inklusive Hillerød).

Data er baseret på de tilgængelige opdateringer i marts 2026.

Epidemiologiske opgørelser er ikke sandheden, men et spejlbillede af virkeligheden. Resultaterne i nærværende rapport er derfor heller ikke bedre end de anvendte data. Vi har indtil 2020 opdateret DANHIV manuelt ved udfyldelse af skemaer for hver patient. Siden 2020 har opdateringen af DANHIV alene været baseret på registerudtræk. Trods den høje datakvalitet i de danske registre, kan de indeholde fejl. En stor del af opdateringen har således været at kvalitetstjekke data på tværs af tilgængelige datakilder. Som det ses af rapportens tabeller og figurer er behandlingen af HIV i Danmark på et meget højt niveau. Det ses også, at behandlingerne i alle regioner er effektive og ligeværdige.

DANHIV overgik fra 1. januar 2025 til Statens Seruminstitut, hvor databasen hører naturligt hjemme.

Vi vil benytte lejligheden til at takke DANHIVs styregruppe for et godt samarbejde. Herudover vil takke Frederik Bay Nielsen, DIAS, SSI, som beredvilligt har stillet sin tekniske ekspertise til rådighed, hvad der har været helt essentielt for at vi kan reducere arbejdsbyrden med udtræk af data.

Det Danske HIV Kohorte Studie er helt afhængig af ekstern støtte. I den forbindelse vil vi rette en speciel tak til Preben og Anne Simonsens Fond. Dette projekt havde ikke været muligt uden fondens støtte.

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Forkortelser:

MSM: Mænd som har sex med mænd

RegionSJ: Region Sjælland

RegionS: Region Syd

RegionM: Region Midt

RegionN: Region Nord

IV: Intravenøs stofmisbrug

ART: Antiretroviral terapi

TAF: Tenofovir alafenamid

Karakteristika for samtlige personer registreret i DANHIV fordelt på centre

Tekst	Total	Rigshospitalet	Hvidovre	R_Sjælland	Region_S	Region_M	Region_N
Antal, total	9007 (100%)	3184 (35%)	2671 (30%)	336 (4%)	1029 (11%)	1327 (15%)	460 (5%)
Køn							
Mand	6476 (72%)	2535 (80%)	1872 (70%)	210 (63%)	679 (66%)	877 (66%)	303 (66%)
Kvinde	2531 (28%)	649 (20%)	799 (30%)	126 (38%)	350 (34%)	450 (34%)	157 (34%)
Infektionsmåde							
MSM	4079 (45%)	1958 (61%)	1114 (42%)	99 (29%)	303 (29%)	471 (35%)	134 (29%)
IV	713 (8%)	157 (5%)	389 (15%)	27 (8%)	52 (5%)	58 (4%)	30 (7%)
Heteroseksul	3563 (40%)	860 (27%)	999 (37%)	174 (52%)	611 (59%)	670 (50%)	249 (54%)
Andet	84 (1%)	17 (1%)	22 (1%)	8 (2%)	7 (1%)	22 (2%)	8 (2%)
Mor til barn	58 (1%)	15 (0%)	17 (1%)	2 (1%)	3 (0%)	11 (1%)	10 (2%)
Ukendt	401 (4%)	130 (4%)	107 (4%)	25 (7%)	42 (4%)	68 (5%)	29 (6%)
I aktiv behandling							
Antal mænd	3968 (100%)	1567 (39%)	1003 (25%)	166 (4%)	441 (11%)	578 (15%)	213 (5%)
Antal kvinder	1879 (100%)	469 (25%)	534 (28%)	114 (6%)	283 (15%)	360 (19%)	119 (6%)
Diagnoseår							
<=1994	2182 (24%)	852 (27%)	812 (30%)	23 (7%)	170 (17%)	270 (20%)	55 (12%)
1995 - 2004	2447 (27%)	842 (26%)	805 (30%)	51 (15%)	276 (27%)	340 (26%)	133 (29%)
2005 - 2014	2422 (27%)	899 (28%)	611 (23%)	79 (24%)	300 (29%)	395 (30%)	138 (30%)
>=2015	1956 (22%)	591 (19%)	443 (17%)	183 (54%)	283 (28%)	322 (24%)	134 (29%)
Oprindelsesland							
Danmark	5378 (60%)	1991 (63%)	1633 (61%)	189 (56%)	546 (53%)	763 (57%)	256 (56%)
Greenland	124 (1%)	42 (1%)	37 (1%)	5 (1%)	13 (1%)	16 (1%)	11 (2%)
Scandinavia	235 (3%)	121 (4%)	78 (3%)	1 (0%)	13 (1%)	15 (1%)	7 (2%)
Western Europe	395 (4%)	185 (6%)	108 (4%)	5 (1%)	46 (4%)	44 (3%)	7 (2%)
Eastern Europe	503 (6%)	122 (4%)	113 (4%)	45 (13%)	86 (8%)	101 (8%)	36 (8%)
North Africa	21 (0%)	8 (0%)	10 (0%)	1 (0%)	0 (0%)	2 (0%)	0 (0%)
Africa South Sahara	1246 (14%)	283 (9%)	372 (14%)	47 (14%)	202 (20%)	251 (19%)	91 (20%)
North America	111 (1%)	61 (2%)	32 (1%)	2 (1%)	7 (1%)	6 (0%)	3 (1%)
South America	215 (2%)	100 (3%)	72 (3%)	2 (1%)	15 (1%)	19 (1%)	7 (2%)
Asia	555 (6%)	181 (6%)	161 (6%)	21 (6%)	73 (7%)	88 (7%)	31 (7%)
Oceania	12 (0%)	7 (0%)	3 (0%)	0 (0%)	0 (0%)	2 (0%)	0 (0%)
Middle East	135 (1%)	62 (2%)	36 (1%)	6 (2%)	19 (2%)	12 (1%)	0 (0%)
Ukendt	50 (1%)	14 (0%)	14 (1%)	6 (2%)	4 (0%)	5 (0%)	7 (2%)

Tabellen indbefatter alle patienter, som er registreret i DANHIV med et center fra 1995 til 2024.

Nyregistrerede og døde fordelt på kalenderår

Årstal	Nyregistrerede	Døde
<=1994	2151	
1995	255	260
1996	242	166
1997	240	91
1998	208	61
1999	252	82
2000	233	53
2001	291	69
2002	238	61
2003	234	76
2004	271	80
2005	240	68
2006	256	57
2007	293	72
2008	278	63
2009	223	75
2010	254	61
2011	259	60
2012	190	57
2013	213	76
2014	216	53
2015	223	62
2016	184	80
2017	204	65
2018	170	66
2019	147	72
2020	132	63
2021	114	80
2022	256	69
2023	204	82
2024	184	71
2025	151	82

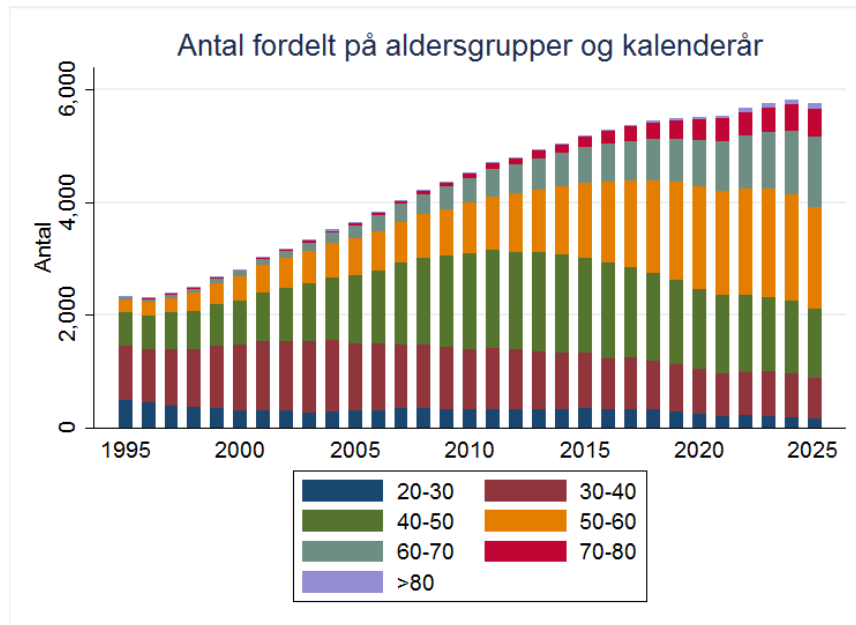
Inkluderer samtlige personer registreret i DANHIV.

Smittemåde fordelt på kalenderår

Årstal	MSM	Heteroseksuelt	IV	Hæmifilie/blodtransfusion	Perinatalt	Ukendt
<=1994	1122	543	332	61	23	69
1995	109	110	21	4	1	10
1996	94	104	21	5	3	15
1997	94	112	20	2	1	11
1998	85	94	19	1	1	8
1999	79	134	18	4	1	16
2000	76	127	16	3	6	5
2001	93	153	30		4	11
2002	83	118	20	3	2	12
2003	95	96	25	2	2	14
2004	136	112	12	2	2	7
2005	125	92	14	1	2	5
2006	112	121	12		1	10
2007	144	120	20	2	3	4
2008	128	125	10	4	1	10
2009	103	97	11	2		10
2010	118	121	7	1		7
2011	120	116	12		1	10
2012	87	75	13	1	2	11
2013	124	75	8		1	5
2014	118	81	11			6
2015	111	96	7	3		6
2016	103	73	1			7
2017	114	81	3	2		4
2018	85	76	4		1	4
2019	75	63	3			6
2020	68	55	2			7
2021	57	39	6	1		10
2022	68	129	17	1		39
2023	72	89	7	2		33
2024	46	99	6	1		32
2025	34	37	5	1		74

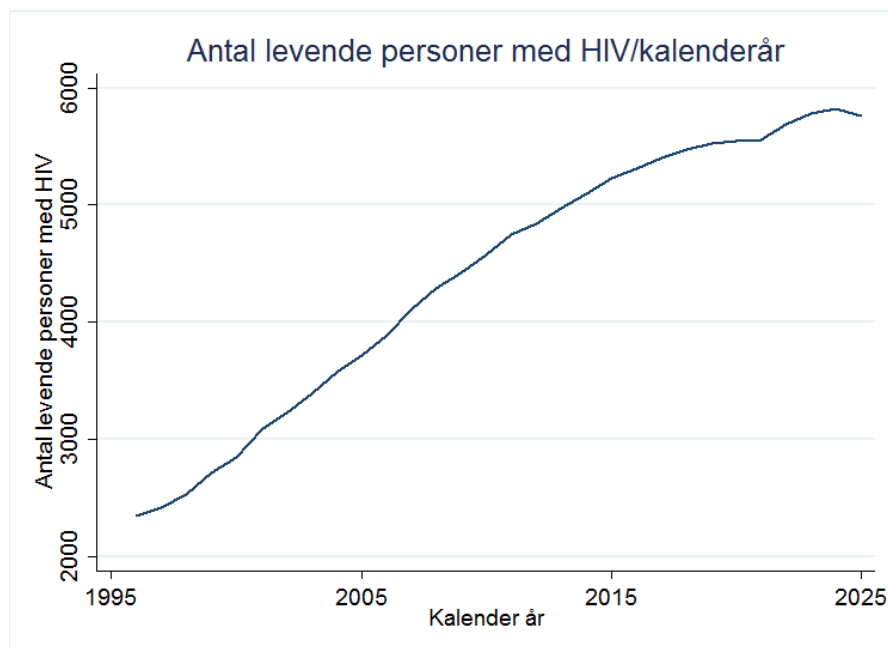
Inkluderer samtlige personer registreret i DANHIV.

Median alder for personer med HIV, som er levende og bor i Danmark det pågældende kalenderår



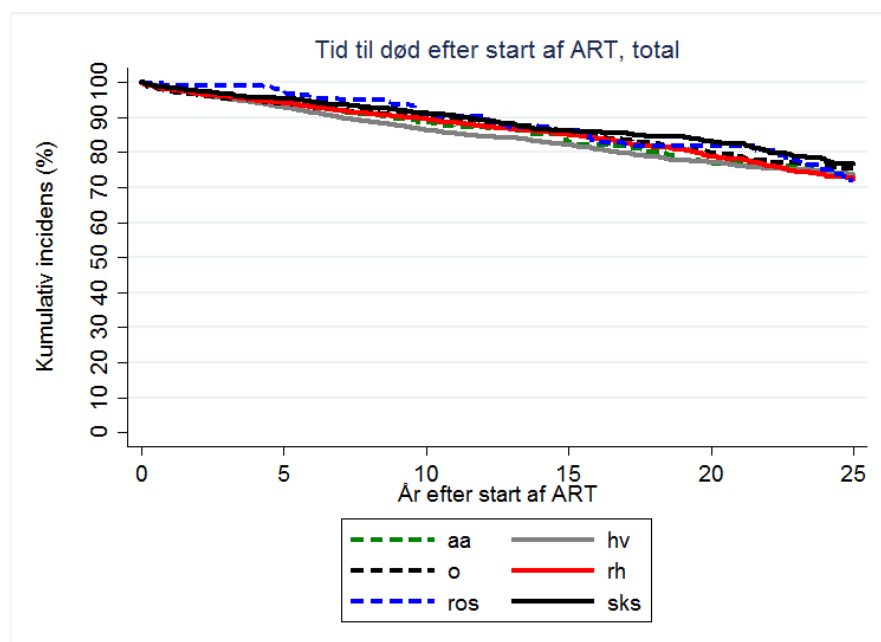
Det ses, at cirka halvdelen af personer, som lever i Danmark med HIV, er over 55 år.

Antal personer med HIV, som er levende og bor i Danmark



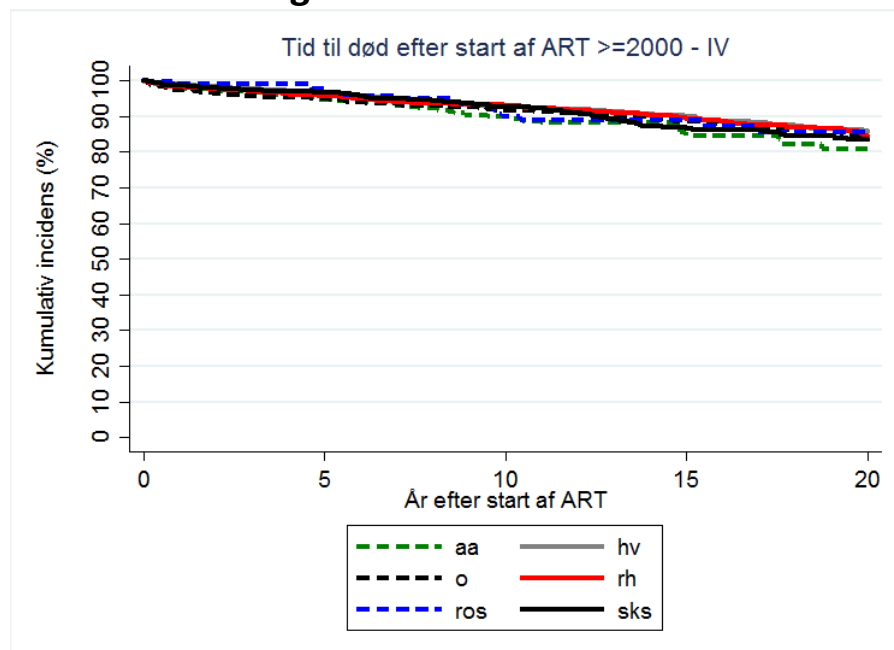
Det ses, at antallet af personer, som lever i Danmark med HIV, er øget fra cirka 2000 til næsten 5500 over de sidste 30 år. Der har dermed aldrig levet så mange personer med HIV i Danmark, som der gør nu.

Overlevelse

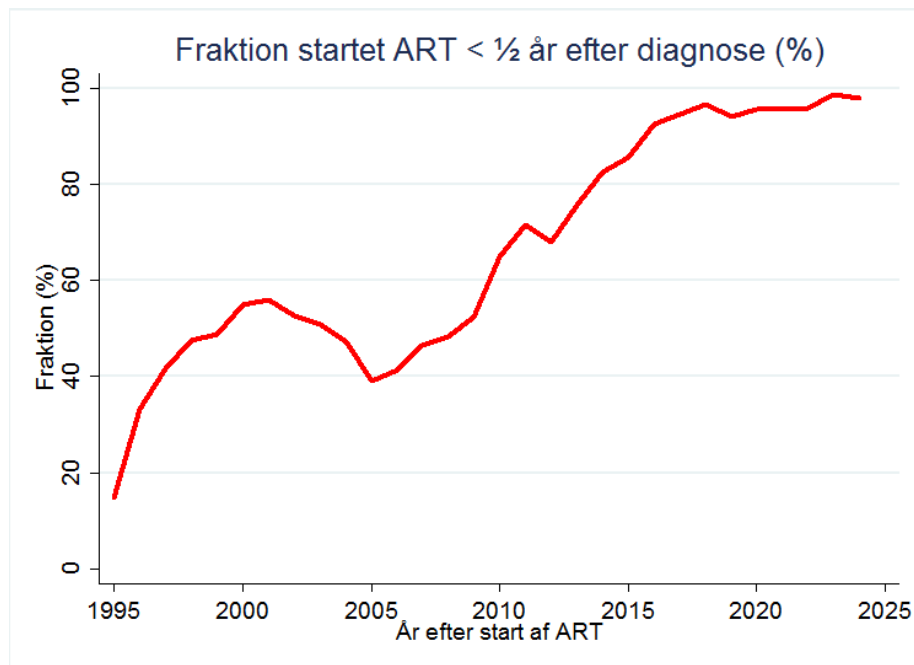


Figuren viser overlevelsen fordelt på HIV behandelende region. Det ses, at der ikke er forskel i overlevelsen afhængigt af behandelende region.

Overlevelse for personer diagnosticeret med HIV i 2000 eller senere, hvor stofmisbrugere er ekskluderet

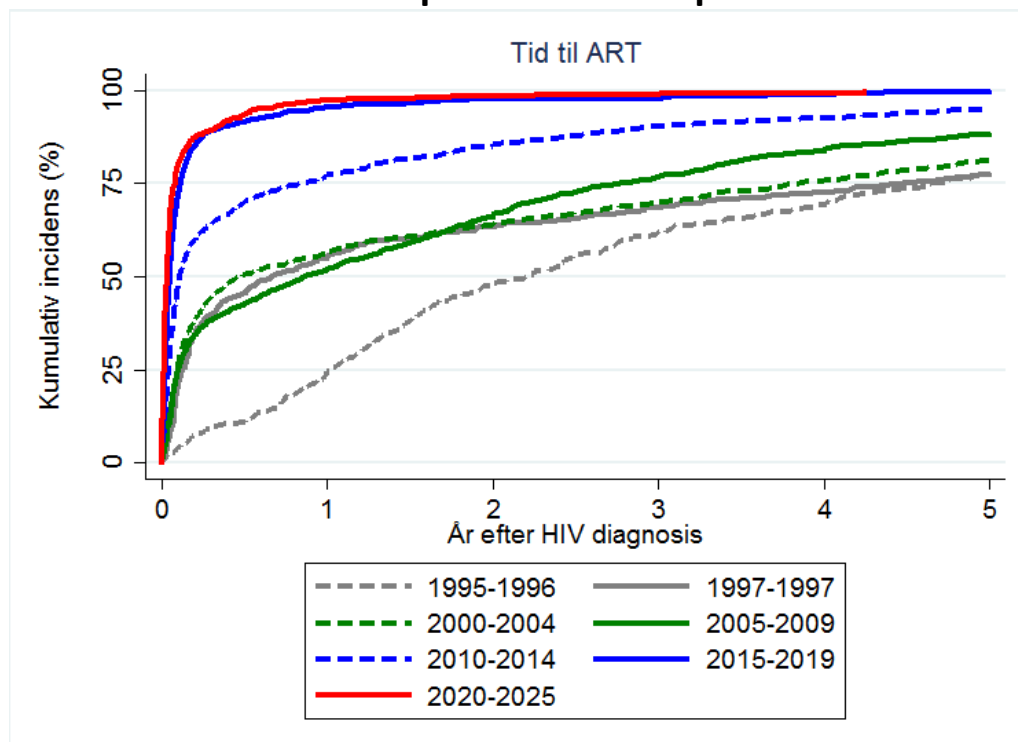


Fraktion, som er startet ART indenfor ½ år efter diagnose fordelt på kalendertid



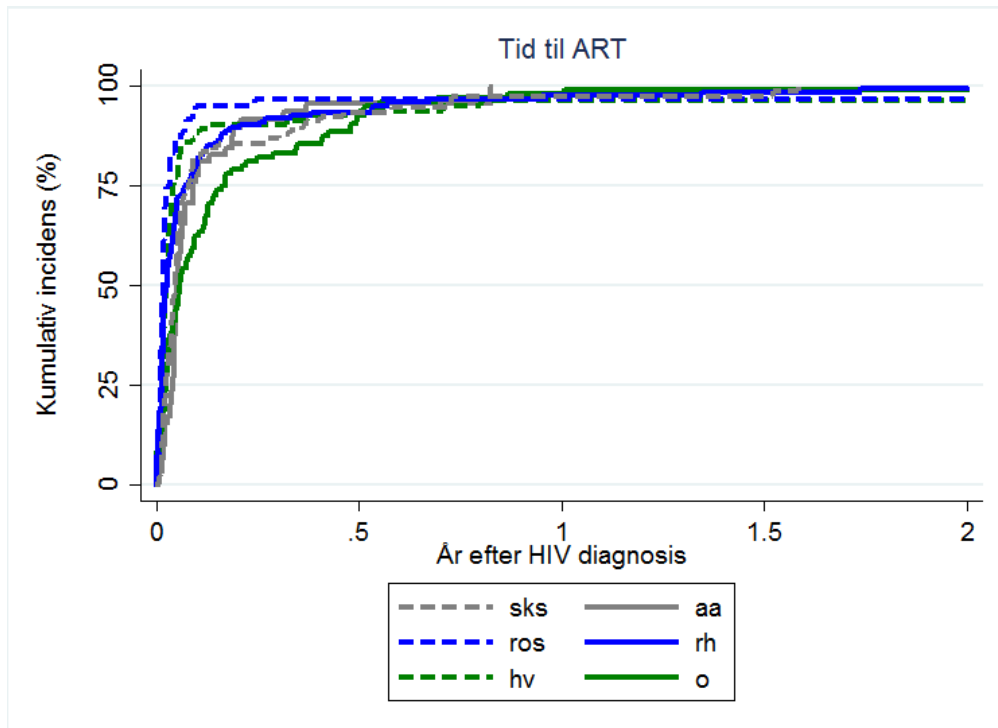
Figuren viser, at stort set alle personer med HIV nu kommer i behandling meget hurtigt.

Tid til start ART fordelt på kalendertidsperioder



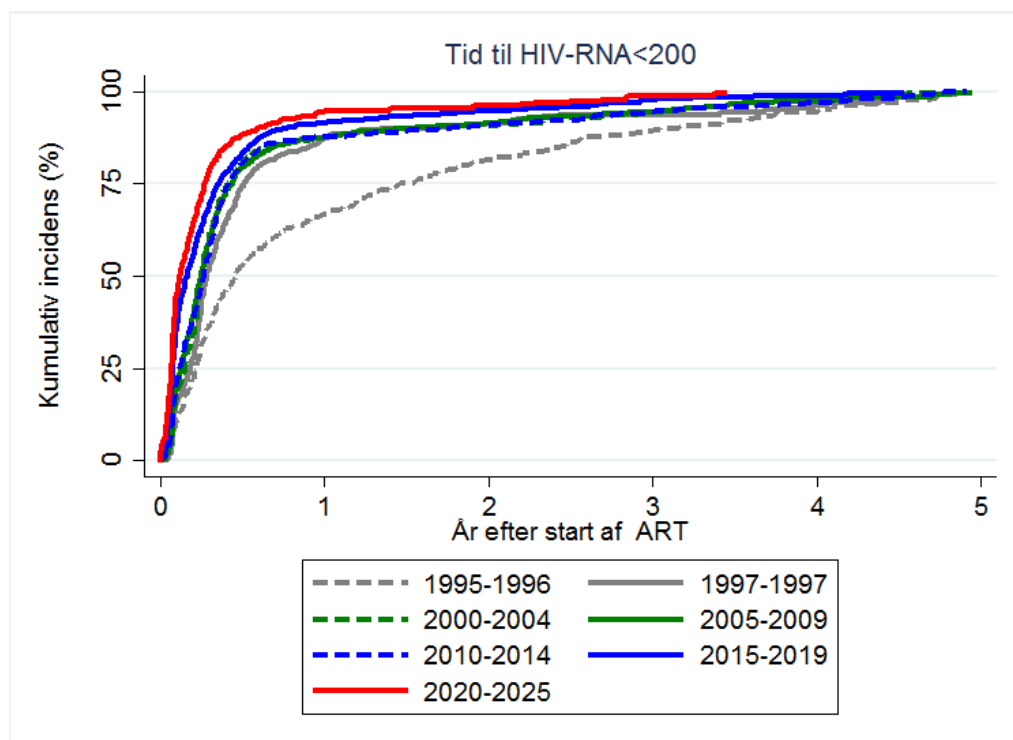
Figuren viser, at tiden fra diagnose til behandling nu er meget kort og nok ikke kan forventes at forbedres yderligere i de kommende år.

Tid til start på ART fordelt på center, inkluderer kun personer diagnosticeret med HIV i 2020 eller senere



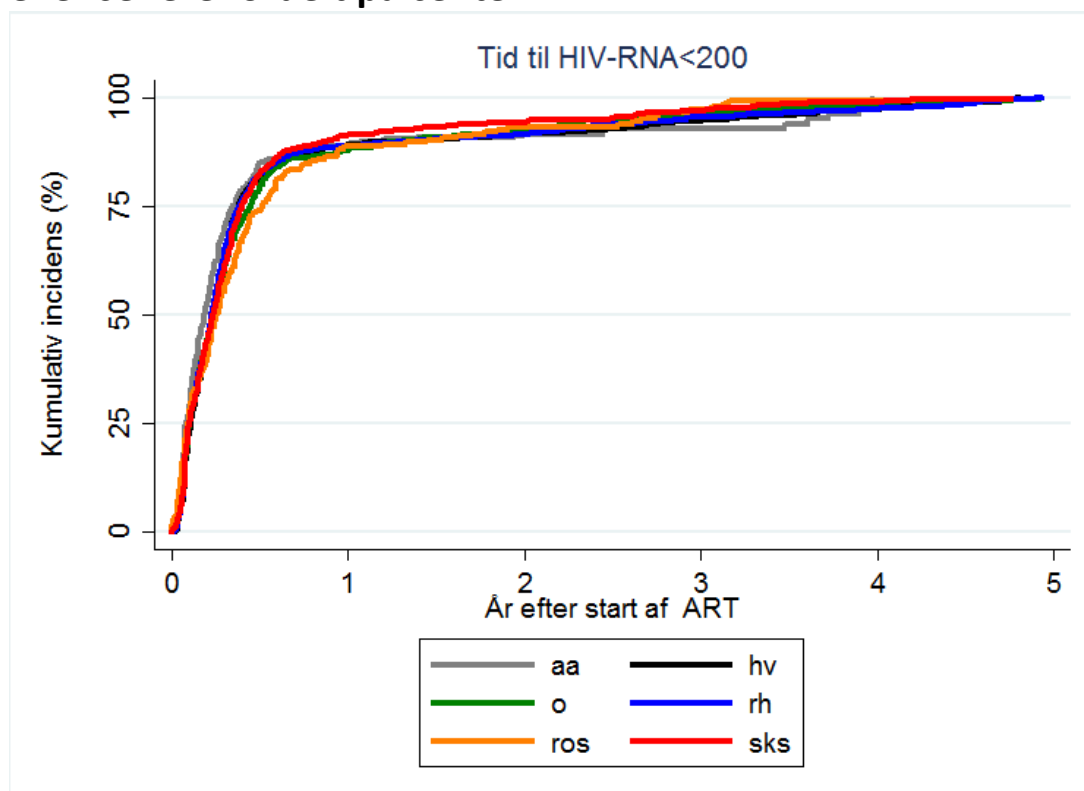
Figuren viser, at i alle regioner startes patienterne nu hurtigt op i ART.

Tid til første HIV-RNA<200 hos personer diagnosticeret med HIV i 2000 eller senere fordelt på kalendertidsperioder



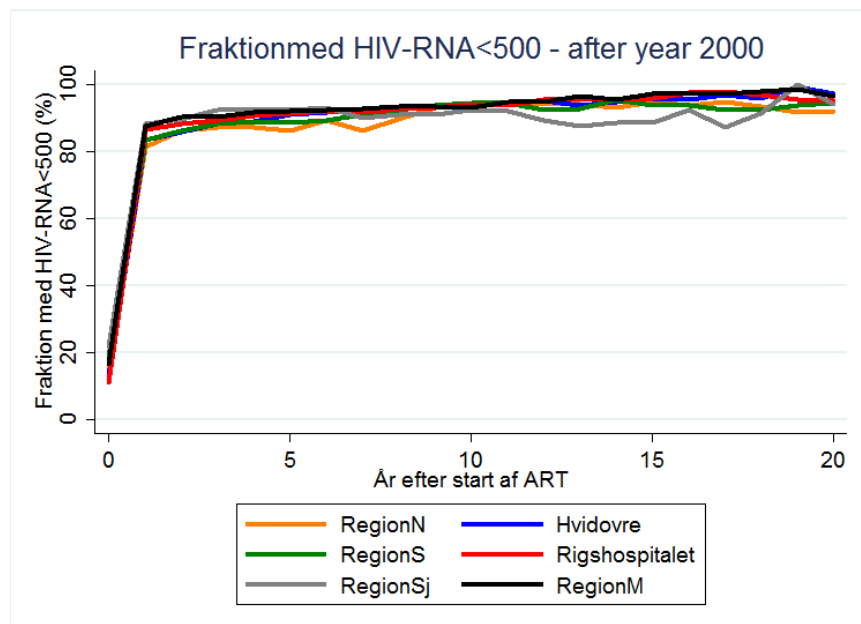
Figuren viser, at en meget stor del af personer med HIV opnår lav viral load hurtigt efter start på ART.

Tid til første HIV-RNA<200 hos personer diagnosticeret med HIV i 2000 eller senere fordelt på center



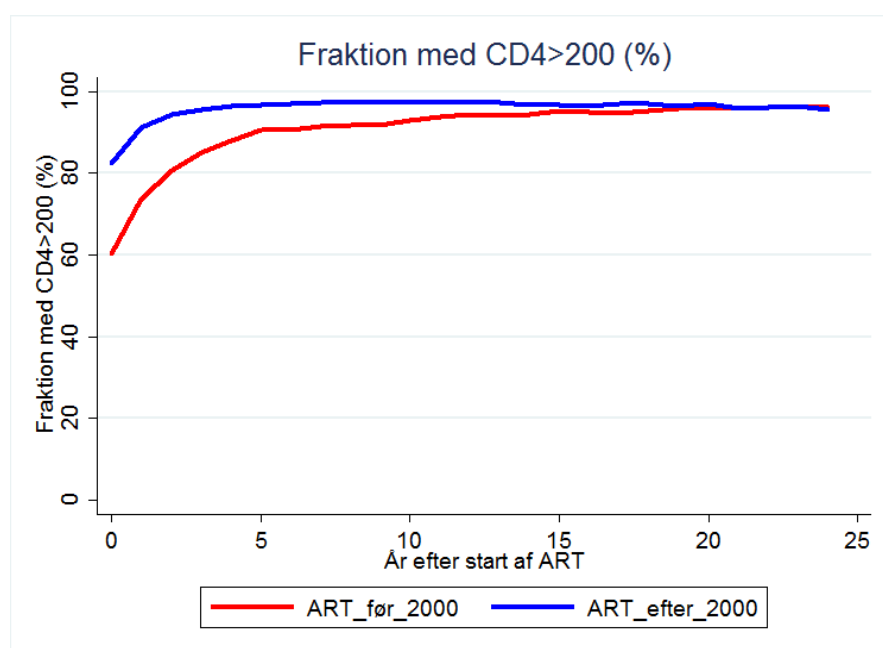
Figuren viser, at personer med HIV opnår lav virusmængde hurtigt uafhængigt af hvilken region, de behandles i.

Fraktion med HIV-RNA<500, hos personer diagnosticeret med HIV i 2000 eller senere fordelt på tid efter start ART



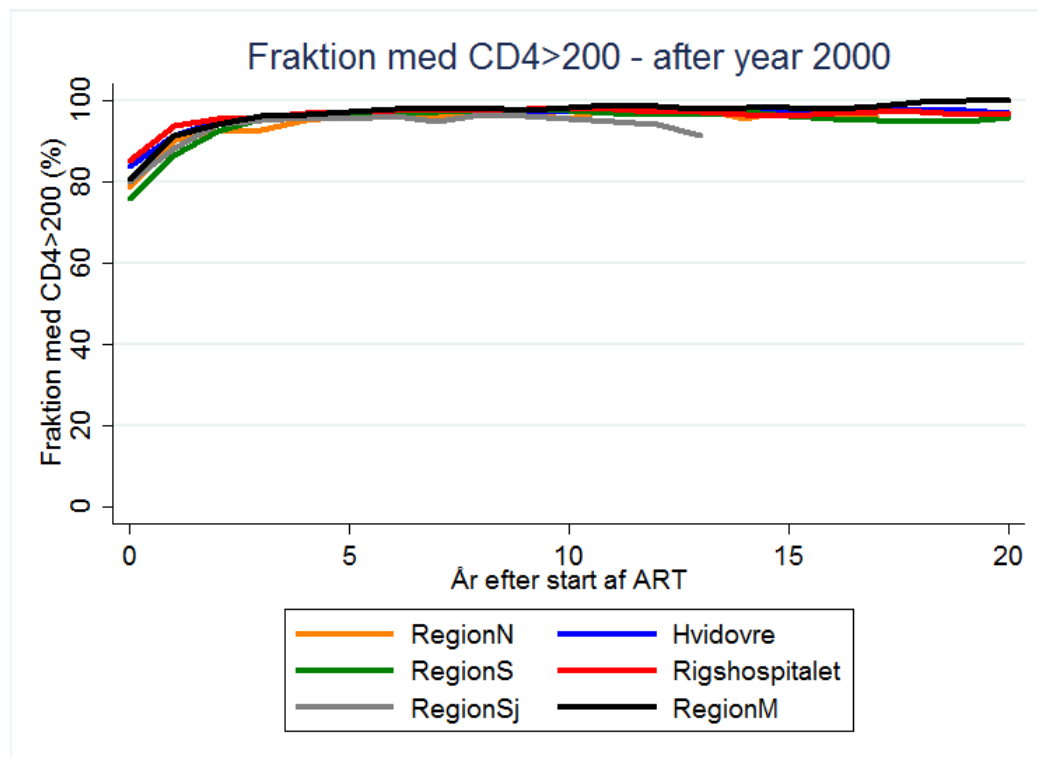
Figuren viser, at op til 25 år efter start på ART har en meget stor del af personer med HIV en lav virusmængde.

CD4 hos personer diagnosticeret med HIV før år 2000 vs. år 2000 eller senere



Figuren viser, at op til 25 år efter start på ART har næsten alle personer med HIV et CD4 celletal > 200 og er dermed i god immunologisk tilstand.

Fraktion med CD4 > 200 hos personer diagnosticeret med HIV i 2000 eller senere fordelt på center



Figuren viser, at det flotte immunologiske respons forekommer i alle regioner.

Antal personer med HIV som får den respektive INRTI eller NNRTI i deres initiale ART regime fordelt på årtal

Årstal	Zidovudin	Didanosin	Zalcitabin	Stavudin	Lamivudin	Abacavir	Tenofovir	TAF	Emtricitabin	Nevirapin	Efavirenz	Etravirin	Rilpivirin	Doravirin
1995	120	22	18		12									
1996	356	163	7	32	221									
1997	443	23	14	64	481									
1998	230	6		35	266	8				40				
1999	195	47		67	235	41				54	22			
2000	175	54		60	193	35	4			39	63			
2001	247	12		11	282	64	5			15	187			
2002	206			8	223	32				8	183			
2003	178			5	191	16	7			11	162			
2004	205			8	224	8	14		6	20	181			
2005	128			5	160	20	20		12	10	132			
2006	114			4	146	28	84		84	15	154			
2007	71				118	45	123		122	20	176			
2008	27				99	70	202		202	14	211	1		
2009	8				47	37	241		238	4	200			
2010	12				36	19	266		264	9	193	1		
2011	5				107	28	249		174	7	165	1		
2012	8				42	6	203		180	13	128	1	4	
2013	4				33	13	195		180	4	130		9	
2014					65	16	220		176		109	3	4	
2015					122	39	196		130		100			
2016					126	29	140	35	86		71		4	
2017					97	32	85	30	62		40		6	
2018					72	22	79	7	48		30		5	
2019					41	17	81	12	77		6		6	
2020					30	15	57	24	69		5			
2021					19	10	34	22	62		7		6	
2022					31	12	81	35	104		12		6	
2023					44	14	58	56	115		10		6	
2024					38	14	49	50	85			1		
2025					6			4	7					

Viser antal patienter, som fik det anført lægemiddel i den første ART, de modtog i Danmark.

Antal personer med HIV som får den respektive proteaseinhibitor eller integraseinhibitor i deres initiale ART regime fordelt på årtal

Årtal	Saquinavir	Indinavir	Ritonavir	Nelfinavir	Amprenavir	Fosamprena	Atazanavir	Darunavir	Raltegravir	Elvitegravir	Dolutegravir	Biktegravir
1995	21											
1996	52	135	80									
1997	167	190	162	5								
1998	65	77	92	78								
1999	73	11	85	117	7							
2000	59	18	80	71	5							
2001	14	11	34	24	12							
2002			8	8	4							
2003	5	6	34		24							
2004		5	60		45	8						
2005			60		44	13						
2006			55		32	19	6					
2007			40		22	19						
2008			56		20	37						
2009			52		8	47	14					
2010			92		19	45	32	8				
2011			104		11	32	62	10				
2012			73		4	28	38	4				
2013			52		4	18	29	8	9			
2014			59			17	41		45	16		
2015			46		4	15	27	4	33	55		
2016			31			22	16		43	43		
2017			8			9	14	5	28	51		
2018			7			4	15		4	56		
2019			13				24	6		61		
2020								20		40	16	
2021								11	4	27	14	
2022			4				4	11		88	28	
2023								11		77	48	
2024										69	44	
2025										16		

Viser antal patienter, som fik det anført lægemiddel i den første ART, de modtog i Danmark.

Antal personer med HIV som for første gang modtager behandling med den respektive NRTI eller NNRTI fordelt på årtal

Year	Zidovudin	Didanosin	Zalcitabin	Stavudin	Lamivudin	Abacavir	Tenofovir	TAF	Emtricitabin	Nevirapin	Delaviridin	Efavirenz	Etravirin	Rilpivirin	Doravirin
1995	134	72	35		40										
1996	392	259	14	125	528										
1997	500	47	32	329	695	9				52					
1998	272	50	11	176	323	73				133		30			
1999	241	111		212	283	177				115		201			
2000	223	122		164	238	151	6		4	97		267			
2001	300	68		79	331	247	6			56		408			
2002	275	45		59	268	262	62			40		392			
2003	216	29		23	223	161	144			122		349			
2004	241	33		16	258	161	134		9	133		319			
2005	147	18		8	191	452	192		113	107		231			
2006	134	14		7	165	400	360		399	58		255	1		
2007	89	6			145	258	390		402	74		261	31		
2008	35				121	224	491		497	70		270	20		
2009	13				61	84	520		529	51		259	23		
2010	16				55	70	547		548	39		237	20		
2011	14				614	71	382		252	43		210	14	4	
2012	9				69	41	302		375	30		152	22	74	
2013	8				124	50	328	6	300	19		153	11	119	
2014	4				142	74	353	6	283	10		121	7	51	
2015					340	173	286	9	190			122	9	31	
2016					314	120	273	608	190	5		102	8	26	
2017					411	190	401	511	218	7		83	3	73	5
2018					263	140	425	242	307			57	4	63	
2019	8				188	59	829	195	754			12	11	43	88
2020					240	38	726	241	761			10	5	37	87
2021					176	23	816	246	850			9	8	40	58
2022	4				217	23	1204	287	1217			15		35	54
2023	7				244	28	1223	300	1183			11		39	64
2024	5				192	15	718	313	744				1	47	33
2025					70		54	91	80					15	12

Viser det antal patienter, som for første gang fik det respektive lægemiddel det anførte år.

Antal personer med HIV som for første gang modtager behandling med den respektive proteaseinhibitor eller integraseinhibitor fordelt på årtal

Year	Saquinavir	Indinavir	Ritonavir	Nelfinavir	Amprenavir	Fosamprenavir	Atazanavir	Tipranavir	Darunavir	Raltegravir	Elvitegravir	Dolutegravir	Carbotegravir	Biktegravir
1995	33		8											
1996	87	320	215	5										
1997	343	472	375	64										
1998	154	139	172	312										
1999	124	71	224	329		8								
2000	124	97	264	118	5	76								
2001	79	50	181	41	21	163		4						
2002	56	22	96	22	5	85								
2003	30	9	101	8	19	147	7	14						
2004	8	6	163	7	5	196	167	5						
2005	7		198		6	116	268	6						
2006	5		167			116	225	5	19	5				
2007	4		152			81	196		64	38				
2008			158			54	208		34	65				
2009			183			30	238		89	91				
2010			205			33	141		259	88				
2011			254			20	120		321	69				
2012			180			9	84		222	65				
2013			141			11	64		195	86	109	5		
2014			105			6	30		133	42	234	271		
2015			101			11	36		123	18	147	461		
2016			70			4	61		116	28	232	323		
2017			33			7	54		94	76	129	513		
2018			30			13	24		99	62	23	483		
2019			44				8		81	82	18	408		121
2020			28			5			62	127	7	365		246
2021			12			5			34	86	4	331		221
2022			16						22	77		502	20	276
2023			8						27	82		462	19	296
2024									13	22		360	31	300
2025									9			138	9	97

Viser det antal patienter, som for første gang fik det respektive lægemiddel det anførte år.

Arbejder udgået fra Det Danske HIV Kohorte Studie

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Phd- og doktor afhandlinger udgået fra Det Danske HIV Kohorte Studie

1. Søren Fangel, Doctoral dissertation 2004: The effectiveness of highly active antiretroviral therapy in HIV-infected patients
2. Toke S. Barfod, PhD Thesis 2004: Adherence to HIV treatment. Patient perceptions and physician communication studied by observation, interviews, questionnaires, and patients' files
3. Nicolai Lohse, PhD Thesis 2006: HIV in Denmark and Greenland, 1995-2004: The effect of highly active antiretroviral therapy and characteristics of the HIV-infected population: An observational study
4. Ann-Brit Eg Hansen, PhD Thesis 2007: Non-HIV determinants of outcome in Danish HIV-infected patients: Impact of study participation, body fat distribution and family-related factors
5. Ole Schmeltz Sjøgaard, PhD Thesis 2011: Non-AIDS defining diseases before and after HIV diagnosis: Characteristics of risk, prognosis, and their usefulness in HIV screening
6. Mette Vang Larsen, PhD Thesis 2011: HIV Infection and Injecting Drug Use in Denmark - Studies on Morbidity and Mortality
7. Lars Haukali Hvass Omland, PhD Thesis 2011: Mortality in patients coinfecting with HIV and viral hepatitis B and C in Denmark
8. Frederik Neess Engsig, PhD Thesis 2012: Morbidity and mortality in Danish HIV patients after the introduction of highly active antiretroviral treatment
9. Marie Helleberg, PhD Thesis 2013: Diagnosis, treatment and cause-specific mortality among HIV patients in Denmark, 1995-2010
10. Line Dahlerup Rasmussen, PhD Thesis 2014: Risk of cardiovascular disease & diabetes mellitus in Danish HIV-infected individuals
11. Lars Haukali Hvass Omland, Doctoral dissertation 2014: HCV-infection in Denmark: Observational studies on mortality, cancer and socioeconomic factors
12. Rebecca Legarth, PhD Thesis 2015: Consequences of social inequality among HIV-infected individuals in Denmark
13. Nicolai Lohse, Doctoral dissertation 2015: The Road to Success – Long-term prognosis for persons living with HIV in Denmark; time trends and risk factors
14. Kirsten Salado-Rasmussen, PhD Thesis 2015: Syphilis and HIV co-infection - Epidemiology, treatment and molecular typing of *Treponema pallidum*
15. Kristina Thorsteinsson. PhD thesis 2016. Studies in Women living with HIV in Denmark - Response to Highly Active Antiretroviral Therapy, Cervical Cancer Screening and Incidence of Cervical Dysplasia

16. Marie Helleberg, Doctoral dissertation, 2016. HIV care and predictors og morbidity among HIV-infected individuals on HAART
17. Magnus Glinvad Ahlström, Ph.D. Thesis, 2017. Estimation of renal function and renal complications in Danish HIV-infected individuals
18. Line Dahlerup Rasmussen, Doctoral dissertation, 2017. Aging and co-morbidity among HIV-infected individuals
19. Frederik Neess Engsig, Doctoral dissertation, 2021. Aspects of HIV-care and treatment in the era of combination antiretroviral therapy.
20. Raquel Marín Iquacel, Ph.D. Thesis, 2023. Late HIV presentation to care: Earlier HIV diagnosis in Primary Health Care & Long-term survival