There is much to celebrate at the end of the first decade of South Africa’s public sector antiretroviral therapy (ART) programme. An estimated 2 million South Africans had started ART by 2012, making ours the largest ART programme globally. ART coverage in adults, according to current guidelines, was estimated at 81% in 2012.[1] The prevalence of HIV is increasing, because people receiving ART are living longer.[2] In rural KwaZulu-Natal, adult life expectancy increased from 49.2 years in 2003, just before the beginning of the ART programme, to 60.5 years in 2011.[3] Tremendous strides have been made in the prevention of mother-to-child transmission (PMTCT) of the virus. Almost 90% of pregnant, HIV-infected women access antiretrovirals (ARVs) either for their own health or for PMTCT, resulting in a 67% decline in new infections in children from 2009 to 2012.[4] Further declines in new infections in children should be seen with the new PMTCT guidelines, which include prolonged ARVs for infants during breastfeeding, and combination ART for all mothers irrespective of CD4+ counts. ART access in eligible children has increased from 17% in 2009 to 67% in 2012.[5] We have even started a third-line ART programme.

There is much to celebrate at the end of the first decade of South Africa’s public sector antiretroviral therapy (ART) programme. An estimated 2 million South Africans had started ART by 2012, making ours the largest ART programme globally. ART coverage in adults, according to current guidelines, was estimated at 81% in 2012.[1] The prevalence of HIV is increasing, because people receiving ART are living longer.[2] In rural KwaZulu-Natal, adult life expectancy increased from 49.2 years in 2003, just before the beginning of the ART programme, to 60.5 years in 2011.[3] Tremendous strides have been made in the prevention of mother-to-child transmission (PMTCT) of the virus. Almost 90% of pregnant, HIV-infected women access antiretrovirals (ARVs) either for their own health or for PMTCT, resulting in a 67% decline in new infections in children from 2009 to 2012.[4] Further declines in new infections in children should be seen with the new PMTCT guidelines, which include prolonged ARVs for infants during breastfeeding, and combination ART for all mothers irrespective of CD4+ counts. ART access in eligible children has increased from 17% in 2009 to 67% in 2012.[5] We have even started a third-line ART programme.

The birth of our ART programme was difficult, to say the least. We should never forget the tragic loss of hundreds of thousands of South African lives as a result of delays in starting our ART programme. The AIDS-denialist views of former President Mbeki, including the absurd notion that ARVs, not HIV, were the cause of mortality, and the ill-informed promotion of nutrition as treatment for HIV by then health minister, Manto Tshabalala-Msimang, were bitter pills to swallow …

A reduction in ARV costs has been one of the biggest achievements of the last decade. South Africa is a major global market player given the size of its national ART programme, and the Department of Health has been able to negotiate lower drug prices, to the benefit of other low- and middle-income countries. In 2000, ART cost around US$10 000 per year, while the currently used fixed-dose combination single tablet for first-line ART costs only US$129 per year. South Africa has the world’s highest number of people living with HIV, estimated to be 6.1 million in 2012,[6] nearly all of whom will require ART in the next decade. The estimated number of new HIV infections in South Africa decreased from 640 000 in 2001 to 370 000 in 2012, which is gratifying, but most people infected in the next decade will also need ART. Major challenges lie ahead to achieve the expansion of the ART programme, particularly if South Africa adopts the new World Health Organization (WHO) ART initiation criterion of a CD4+ count <500 cells/µl. Task-shifting, such as nurse-initiated management of ART (NIMART), has increased access to ART,
but there is a need to train more nurses. Innovative models of patient care, such as adherence clubs, should be developed, adapted to local contexts, and rolled out.

‘We know that over 2 million South Africans have started ART, but how many are still in care? ... the massive ART programme expansion needed in the next decade will be accompanied by high attrition rates.’

The biggest challenge for scaling up ART for the next decade will be retention in care. We know that over 2 million South Africans have started ART, but how many are still in care? Loss to follow-up increased with time and increasing clinic population size in a large South African ART programme, suggesting that the massive ART programme expansion needed in the next decade will be accompanied by high attrition rates. Measures of retention in care at the facility level need to be collected routinely. Electronic pharmacy refills are increasingly being used and could easily identify people who are defaulting. Retention in care and rates of virological suppression according to years receiving ART should be used to identify poorly functioning clinics and regions.

The initial role for patient activist groups such as the TAC was crucial, given the state opposition to rational treatment for people living with HIV. Some might have thought that the job of activists was done once the national ART programme was launched and the current progressive Minister of Health was appointed. Unfortunately, the general lack of accountability in the public health services, as demonstrated by ongoing drug stock-outs, demonstrates the need for independent civil society groups to monitor service delivery, and where necessary, exert pressure on the health services to deliver their mandate.

Finally, more resources need to be made available for operational research to support the ART programme. South African HIV researchers have been very productive, but almost all of their major achievements have been completed using resources from international grant agencies. Budgets were made available for research to support the national HIV programmes in the mid-2000s, but this was not sustained. The Medical Research Council has made good progress in leveraging extra funding for clinical research, indicating that political will exists to support more resources for research.

References