As the roll-out of antiretrovirals (ARVs) to people living with HIV/AIDS (PLWHA) continues to increase in South Africa, so too does the need to integrate mental health services into HIV care. In this editorial, we argue that the role of mental health in ARV programmes is central. The prevalence of mental disorders in PLWHA is higher than in the general population, and the impact of these conditions is substantial. Screening tools for mental disorders are both available and feasible. These should be incorporated into routine ARV care, with support from dedicated HIV mental health services.

In PLWHA there is growing evidence of an increased prevalence of mental disorders compared with the general population. For example, in a meta-analysis of 10 studies, major depression was nearly twice as common in PLWHA. Similarly, in the HIV Cost and Services Utilization Study (HCSUS) conducted in the USA, the prevalence of depressive, anxiety and substance use disorders in PLWHA was at least twice that reported in the NCS-R. In the HCSUS, the prevalence of alcohol and substance abuse combined was reported as 50.1%, while neurocognitive disorders affect as many as 30% of PLWHA, particularly in late stages. Mental disorders found to be highly prevalent in a South African ARV clinic include major depression (34.9%), post-traumatic stress disorder (14.8%) and alcohol abuse (10.1%).

In addition to these mental disorders, neurocognitive disorders (NCDs) are emerging as a new challenge in the era of ARVs. They often persist despite the use of ARVs, with consequent neurodegeneration. NCDs, with the typical subcortical pattern, are being encountered increasingly in ARV clinic populations. Frank HIV dementia (HIV-D) may be occurring less frequently than before, but as the duration of illness increases with ARVs, it is now recognised that prevalences may actually be increasing. Minor forms of NCD also occur, and with greater frequency than HIV-D. While these forms of neurological disease are less disabling, they nonetheless also result in a significant burden of disease.

While it is known that NCDs are highly prevalent, and that minor forms are often not detected, a unique opportunity exists to address some of these questions. While all patients entering ARV care should be screened for NCD, the issue is whether or not individuals with CD4 counts greater than 200 cells/µl and demonstrable neurocognitive impairment should be commenced on ARVs for their relative neuroprotective effects. How busy primary care clinics integrate this screening into routine care should be discussed and researched.

The impact of mental disorders on outcomes in PLWHA is now undisputed. They affect adherence, mortality and quality of life. In addition, many mental disorders increase the probability of engaging in risk behaviours and are aggravated by or caused by ARV treatment. In the context of the large numbers of PLWHA in South Africa who are infected and who access ARV care, this burden is substantial. South Africa has the largest number of people infected with HIV worldwide. With South Africa deploying one of the most successful ARV roll-outs in the developing world, more than half of PLWHA in the Western Cape will receive ARVs. These growing numbers of patients accessing HIV care have seen the rates of retention in care falling. Of the cohort commencing ARVs in 2005, 13.8% were no longer in care at 2 years. Of this number, approximately 40% are people lost to follow-up (LTFU). LTFU is a crude proxy measure for poor adherence. Substance abuse and mental disorders are common reasons for poor adherence.

With all of these conditions affecting large numbers of PLWHA, screening programmes for mental illness are increasingly being regarded as essential to HIV care. In South Africa, it is a requirement that patients enrolled onto ARVs receive some form of screening for both depression and alcohol abuse. It is our impression that this is done with varying accuracy and efficacy. While Patel et al. have argued that the training of primary care physicians leads to transient improvements in detection, screening tools may actually improve outcomes in general primary care clinics. Brief instruments for these settings do exist (such as the General Health Questionnaire and the Kessler-10 item scale), but few are aimed at the specific problems encountered in ARV clinic populations. A MEDLINE search for such a tool yielded only the Substance Abuse and Mental Illness Symptoms Screener (SAMISS), a tool validated in PLWHA in the USA. It includes screening questions for alcohol and substance abuse, major depression, panic disorder and PTSD, as well as adjustment disorder. These are an important group of disorders commonly encountered in the pre-ARV treatment group. Other disorder-
specific tools have been validated in South Africa, namely the Alcohol Use Disorders Identification Test (AUDIT), the Centres for Epidemiological Study-Depression Scale (CES-D) and the Harvard Trauma Scale (HTS). The combination of these tools would however prove too lengthy.

Together with the SAMISS, a screen for neurocognitive disorder should be done on all patients commencing ARVs, those failing first-line treatments, and those who have been on ARVs for more than 2 years. The International HIV Dementia Scale16 is a suitable brief screening tool for this setting. Together the SAMISS and IHDS screen takes 10 - 12 minutes. The sensitivity and specificity of the SAMISS are 97% and 44% respectively, while those of the IHDS were reported to be 80% and 55% respectively. The high sensitivities would normally result in a high degree of case detection, while the moderate specificities may lead to a number of false-positive cases. These should be reviewed at a second tier of screening by staff with a higher level of skills.

In order to implement these interventions as widely as possible, data on suitability and feasibility are needed. Such a pilot programme is underway in the HIV/neuropsychiatry programme in the Western Cape. We suggest that existing lay counsellors or nurses be trained to administer these tools. A study comparing the results obtained by trained mental health professionals and lay interviewers needs to be done to establish levels of agreement. Following this, additional measures, together with an assessment of true caseness using a semi-structured diagnostic interview (such as the MINI neuropsychiatric interview), should be done to establish the local diagnostic validity and utility of the SAMISS and IHDS. The impact of these tools on clinic function, acceptability to personnel and ease of use should be measured. Cases detected by lay counsellors or nurses should then be referred to a mental health nurse for more detailed assessment. True cases may be managed on site by community mental health services, or referred to secondary support clinics if needed. Information regarding the reasons for referral out should be captured, so as to plan future services and needs.

Resources for HIV and mental health are scarce. To our knowledge, there are very few dedicated HIV psychiatry services in South Africa. The role of HIV psychiatrists should be to develop and coordinate services to PLWHA using existing frameworks. Additional support and development should be added. This may take the form of medical officers to manage referred patients, and lay counsellors and nurses to provide primary care screening and treatment. Once feasibility and effectiveness have been shown, the programme could be expanded to reach all PLWHA. These tasks need to shift to the non-psychiatrist. With suitable training and support, it is possible that mental health services can be integrated into routine ARV care. Lessons from this disease may then be transferred into general primary care settings.

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