Launch of the IJTLD Clinical Standards for Lung Health

This issue of the IJTLD presents the first in a series of Clinical Standards for Lung Health, with a focus on specific clinical standards for the assessment, management and rehabilitation of post-TB lung disease.1 Future articles in the series will include clinical standards for pulmonary TB, management of adverse events of anti-TB drugs and management of latent TB infection. With support from the Oskar-Helene-Heim Foundation (OHH; Berlin, Germany), the first four of these articles will be made Open Access and freely available to the global community. The first two articles will also be the subject of a presentation at the Union’s World Conference on Lung Health in October 2021. The IJTLD Clinical Standards for Lung Health aim to guide clinicians and health care workers with concise recommendations and succinct summaries. Furthermore, they will support decision making and encourage the addition of new strategies in TB programmes with a consensus of experts, where confirmed evidence is still limited. They are intended to complement national and international guidelines, not replace these.

TIME TO INCLUDE POST-TB LUNG DISEASE IN THE TB SPECTRUM

In the pre-antibiotic era, only approximately one third of patients survived even after treatment for TB in sanatoria.2 Mortality statistics have shown that half of the patients still alive 5 years after TB diagnosis died within the next 5-year period.3 The need to follow-up on TB survivors was discussed as an important medical issue, and some sanatoria had an after-care committee to council patients about how to reintegrate into society according to their capabilities. Recommendations were made to improve living conditions and nutrition to avoid relapse.4 After the introduction of an effective drug treatment, leading to ‘cure’ in most TB cases, medical attention shifted away from these important aspects of follow-up. Nevertheless, how much ‘cure’ can we expect after adequate drug treatment even today? Because most treatment outcome definitions do not include post-treatment surveillance or sequelae,5 data on long-term outcomes in programmatic settings are limited to retrospective analyses of health administrative data, such as TB registries.6 A recent proposal for the new WHO outcome definitions includes the documentation of sustained treatment success.7 However, this post-treatment follow-up is only recommended for operational research settings, as long-term surveillance by most healthcare systems is challenging.8 Nevertheless, a recent symposium has helped to draw attention to the field and provided a better understanding of post-TB lung disease (PTLD).9

To develop these clinical standards for PTLD, a panel of 62 global experts with a relevant interdisciplinary background were assembled, and using a Delphi process, they achieved consensus on six recommendations.1 Especially in an area such as PTLD, where evidence is too weak to make strong recommendations, consensus is needed to accelerate the application of existing knowledge. Careful monitoring and evaluation will be necessary to answer open questions and contribute to the growing literature. Research priorities were listed, and the authors also acknowledge that updates to these standards for PTLD will occur when evidence is growing or changing. The clinical standards for PTLD start with a guide to patient care after drug treatment. There are still no guidelines covering this vulnerable period, but we have enough evidence to suggest that, in many cases, the disease is not ‘cured’ with the last tablet swallowed. It was estimated in a modelling study that 155 million people were alive in 2020 with a former TB diagnosis.10 The COVID-19 pandemic has resulted in delays for TB diagnosis and treatment, thus aggravating the severity of TB cases, with unknown impact on treatment outcomes and PTLD.11,12 More data about PTLD in countries with different healthcare resources and different TB prevalence will be necessary to get a clearer picture.

A considerable number of TB survivors suffer from residual symptoms, making it difficult to manage everyday life and work activities.13 A variety of psychosocial problems can affect their quality of life after treatment,8,14 and long-term mortality in this population seems to be higher than in the general population.15–17 Diverse patterns of lung damage can be found with or without symptoms. This heterogeneity makes it difficult to correctly diagnose a case of PTLD and measure outcomes.8 Measurement of lung functional parameters alone is insufficient to assess the need for rehabilitation.18 The lessons learnt from long- and post-Covid research have to be adapted for PTLD.19,20 Symptom scores and validated questionnaires can help to screen for respiratory symptoms and frequent comorbidities such as depression. A validated questionnaire, specific for PTLD is not available, but would be helpful to complement the
increasingly difficult to think about patient-centred means suffering for many TB survivors, and it will be difficult in the near future due to the limited data. Nevertheless, it is likely that we will continue to acquire evidence that TB ‘cure’ still is insufficient,22 it will be a challenge to establish a rehabilitation programme for TB survivors. The political and financial support for PTLD will have to compete with case-finding and treatment programmes addressing PTLD (as recommended in Clinical Standards 2 and 3).1,2,21 In low- and middle-income countries, where basic care for lung disease is insufficient, it will be a challenge to establish a rehabilitation programme for TB survivors. The political and financial support for PTLD will have to compete with case-finding and treatment programmes for TB or other diseases of public health importance. Data on cost effectiveness will have to provide proof of benefit to convince decision makers in different settings. Nevertheless, it is likely that we will continue to acquire evidence that TB ‘cure’ still means suffering for many TB survivors, and it will be increasingly difficult to think about patient-centred TB care without including the post-treatment period (see Figure).2,23

There is an urgent need to integrate PTLD into TB guidelines, but evidence-based recommendations will be difficult in the near future due to the limited data. These IJTLD Clinical Standards for PTLD are a necessary step in paving the way for more global activities towards awareness, funding and research in this neglected field. In line with the WHO End TB Strategy,24 intensified research and innovation (Pillar 3) should lead to an integrated, patient-centred TB care (Pillar 1) and include all TB survivors on the spectrum of TB (Figure).

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