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Editorial World Tuberculosis Day 2023 theme "Yes! We Can End TB!"

World Tuberculosis (TB) Day marks the day in 1882 when Robert Koch announced the discovery of Mycobacterium tuberculosis (Mtb), the bacterium that causes TB. World TB Day is observed annually on March 24 to raise awareness about TB, a disease which despite effective treatment being available generates a high death number burden wordwide. "Yes! We Can End TB!" is the World Health Organization (WHO) and STOP TB Partnership theme for World TB Day March 24, 2023 [1]. The theme is a message of generating hope and a plea for re-establishing high-level political leadership for increased global funding to enable faster uptake of new WHO management recommendations for finding, diagnosing, and effectively treating all cases of TB using new WHO recommendations. World TB Day also provides opportunities to refocus global attention on TB after the past 3 years of distraction by the COVID-19 pandemic. A critical challenge will be to garner political support and obtain funding commitment for achieving the United Nation (UN) Sustainable Development Goals (SDGs) targets for global TB control at the 78th UN General Assembly (UNGA) on TB to be held in in New York in September 2023. UNGA member states must be urged to commit themselves to accelerate the rollout of the new WHO-recommended shorter all-oral treatment regimens for drugresistant TB.

About a quarter of the global population (1.7 billion people) is estimated to have been infected with *Mtb* [2]; although, most people (more than 90%) do not progress to TB disease during their lifetime [3]. The disease typically affects the lungs (pulmonary TB) but it can also affect other sites (extrapulmonary TB). The currently recommended treatments for drug-sensitive TB (a 4-6month course of anti-TB drugs) can cure about 85% of affected adults and children [4]. New regimens to treat multidrug-resistant (MDR)-TB in as short as 6 months are now available [4,5]. Regimens of 1-6 months are available to treat TB infection [6]. Universal health coverage is necessary to ensure that all people with disease or infection can access the treatments. The number of people acquiring infection and developing disease (and in turn, the number of deaths caused by TB) can also be reduced through multisectoral action to address TB determinants [7], such as poverty, undernourishment, HIV infection, smoking, and diabetes [6,8].

The COVID-19 pandemic has reversed years of progress made in the fight to end TB [9–13] and has increased the worldwide TB case load, numbers of deaths, and caused disruption of essential TB services worldwide [9–13].

World TB Day presents an opportunity to highlight that TB is the second most important cause of death from an infectious disease worldwide (after COVID-19), with 1.6 million estimated deaths in 2021 [2], and it deserves continuous attention and financing despite competing priorities. There is an urgent need for rapid scaleup of action and investments in TB health services across the world because the 2022 targets of the UNGA High-Level Meeting on TB, which was set in 2018 (UNGA, 2018), have not been achieved yet [14]. To achieve TB elimination, increased investments are required through accelerating the promising new TB vaccines pipeline and implementing preventive therapies, point-of-care new rapid molecular diagnostic tests, and continuous access to more efficient oral drug treatment regimens for sensitive and resistant *Mtb* strains in children and adults.

Knowing the work ahead, it is important to acknowledge the successes reached in 2022 by many TB high burden countries to recover from the impact of COVID-19 epidemic and to ensure access to diagnostics, updated treatment regimens in adults and children, digital technology, and artificial intelligence to provide a TB response. Great efforts have also been done to increase the engagement of those affected by TB, involving the communities and the civil society who are leading the movement toward ending this disease. All these need to be factored in for a comprehensive worldwide TB control plan. In this special IJID World TB Day issue to commemorate World TB Day, we present nine reports covering several of these aspects: impacts of COVID-19 on the diagnosis of TB, MDR-TB, and on mortality [15]; characterization of immune inflammation of TB-COVID-19 coinfection [16]; the impact of COVID-19 on increasing non-communicable diseases, such as diabetes [17]; updated drug-resistant tuberculosis treatment regimens [18]; need of new formulations of TB drugs, especially for MDR-TB, for children [19]; importance of the engagement of those affected by TB in the clinical trials [20]; new proposed strategies to design new TB vaccines, such as the mRNA technology [21]; characterization of the TB vaccine-induced immunity in newborns [22]; the necessity to have genomic and geospatial epidemiology of Mtb at a local level, as reported in Oman [23]; and the urgent need to have programmatic management of TB preventive treatment (PMTPT) [24].

The Global Plan to End TB 2023-2030 by the STOP TB partnership [25] highlights a positive message of hope that we really can end the TB pandemic by 2030 if all stakeholders from UN member states, policy makers, scientists, and funders of affected communities can mobilize their collective energy, knowledge, technologies, and resources to make TB a global priority, demanding sufficient funds and make appropriate interventions for prevention, diagnosis, and treatment services available to all people everywhere.

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Declaration of competing interest

The authors have no competing interests to declare.

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