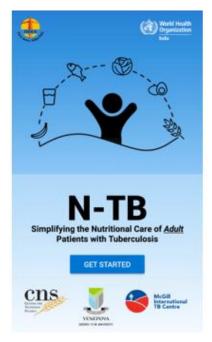






N-TB, an app for nutritional assessment & counselling of patients with tuberculosis

On World TB Day (24 March), the Center for Nutrition Studies, Yenepoya University, Mangalore in association with McGill International TB Centre, Montreal is pleased to announce the public release of **N-TB**, an android mobile based application for the nutritional assessment and counselling of adult patients with TB. This app, endorsed by the Revised National Tuberculosis Control Programme and WHO India, wasincluded in the new initiatives unveiled by Prime Minister Narendra Modi during the Delhi End TB Summit on March 13th 2018.



TBoften results in significant weight loss, which can exacerbate underlying undernutrition. Studies in India have shown that 50% of adult men and women with TB weigh below 42 kg and 38 kg respectively. Studies in rural India have also shown lifethreatening levels of low BMI. Undernutrition in TB patients has been shown to be a consistent risk factor for death, and this is important in a country like India where current levels of TB mortality are high with 423,000 deaths due to TB. Undernourished patients are also at higher risk of serious sideeffects of drugs, poor absorption of drugs, reduced ability to return to work, and recurrence of disease after cure.

Undernutrition in TB patients is now considered a medical condition like co-existing diabetes, or HIV infection. WHO recommends that nutritional assessment, counselling and support should be considered an integral part of TB care. The RNTCP released a Guidance document on Nutritional Care and Support for patients with tuberculosis in India in 2017, one of the

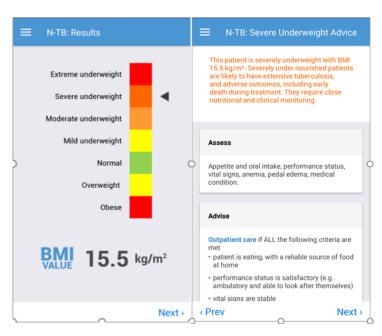
first countries to do so. This year has seen the launch of nutritional support initiatives in the form of food rations by many states. The Union Government also announced a direct benefit transfer of Rs. 500 per month, to be made operational from April 2018, to enable nutritional support for TB patients.

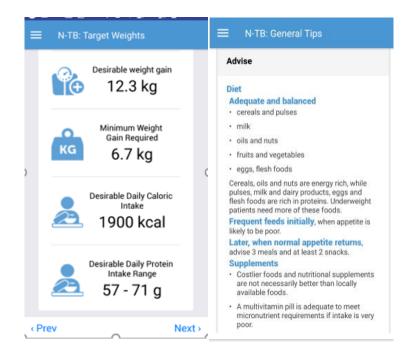
All these initiatives will require healthcare providers to be skilled in nutritional assessment and counselling. The **N-TB** is the first of its kind app for healthcare providers. It enables the classification of the nutritional status of the patient by calculating the body mass index (BMI). If the BMI is very low, it red-flags this and provides an overview of management of severe undernutrition. The app also provides the weight gain required during treatment to achieve a desirable weight, and the recommended daily caloric and protein intake (screen shots on the next page). It has counselling tips on diet with an emphasis on the value of locally available foods in contrast to costly nutritional supplements, activity and lifestyle.

Dr. Anurag Bhargava Ph: 82774 08009/ 82967 43154,email: anurag.bhargava@yenepoya.edu.in

Dr. Madhavi Bhargava Ph: 8277357464; email: madhavi.bhargava@yenepoya.edu.in











ीत - 011-2306 3231 - 011-2306 2230 - 0131-2306 2230 - पास्त सरकार - पास्त सरकार - 000-मार्गामा में 1000 - 100-मार्गामा में 1000

Minuthy of Headin & Family Welfare
Firstly, ware, was Room Code, 110 100

Dute: 31.10 2018

Dear

Sub: Utilization of N-TB mobile application for implementation of Guidance document on nutritional care & support for patients with TB in India – Reg.

Gol is committed to ending TB by 2025, five years ahead of the Global Sustainable Development goals. In order to achieve this, it is important to address the social determinants of Heath. Undernutrition is an established risk factor for progression of latent TB infection to active TB, increases the risk of severe disease, death, drug toxicity, drug malabsorption & relapse after cure and at the population level contributes to an estimated 55% of annual TB incidence in India. Moreover, TB leads to weight loss, wasting and worsening of nutritional status. Therefore, Undernutrition and tuberculosis (TB) have a bidirectional relationship.

Addressing undernutrition and providing nutritional support to households with TB patients would be key to achieving the Government of India's ambitious goal. In order to address this significant risk factor, the "Guidance document on nutritional care & support for patients with TB in India" was developed by Central TB Division and released on the occasion of World TB Day 2017.

In order to facilitate implementation of the technical aspects of the nutritional assessment and appropriate supplementation, the N-TB app has been developed by CTD with support of Center for Nutrition Studies, Yenepoya (Deemed to be University), WHO and McGill International TB centre. It is a tool for health care workers to calculate BMI of TB patients, know how to counsel patients and choose the food items as per their BMI to improve BMI while on treatment and later. It is available for download on Android devices https://play.googie.com/store/apps/details?id=com.nexa.ntb and iOS device (https://itunes.apple.com/in/app/n-tb/id1402523153?mt=8). The training materials which may be used for sensitizing the staff on this app are attached for reference.

You are requested to widely disseminate the information on this app and ensure that all the program staff install the application on their Android tablets and utilize the same in counselling of the patients.

Yours sincerely

(Dr les sachdeva)

Annexures: As mentioned above

To

State TB Officers (All States/UTs)

Copy to

PPS to AS & DG (RNTCP & NACP), MOHFW
PPS to IS (TB), MOHFW
District TB officers (All Districts of all States/UTs)