**GF PIU REPORT**

**on the grant No КАZ-Т-NCTP No 1844**

**(“Effective responses to drug-resistant tuberculosis in Kazakhstan” program)**

**for the year of 2020**

**Project budget: $ 8 952 835, including for 2020: $ 5 257 491 (out of them for СOVID-19: $ 1 297 395)**

1. Installation of 19 Xpert MTB/RIF machines procured at the end of 2019 was carried out.
2. In total 73,993 TB suspects were examined using Xpert MTB/RIF technology during 2020 (against 64803 in 2019 and 60 822 in 2018) and 78,257 tests were carried out for them (68450 and 64308 accordingly).
3. 90 Xpert MTB / RIF modules were checked, need in replacement of 21 modules (23,3%) was identified.
4. 5400 cartridges for Xpress SARS-CoV-2 were procured and distributed.
5. Procurement of reagents and ensuring 100% of need in HAIN for RK, BACTEC for the penitentiary system, NRL.
6. Procurement, installation and approbation of the MBT sequencing equipment were carried out.
7. Logistics of the bedaquiline substance distribution in the country for DST was carried out
8. 6 trainings were held: 2 offline trainings on an active pharmacovigilance, 2 offline trainings for Mass Media, 1 online training for the specialists from 19 NGOs on the issues of TB, TB/HIV in the terms of COVID-19 pandemics and 1 online training on a M&E in the TB program issue. In total 139 persons were trained.
9. M&E visits were conducted to all regions: 2 oblasts were covered with the M&E visits prior to the Covid-19 quarantine activities before March of 2020, other regions – in the Quarter 4 of 2020. All 19 NGOs were covered with the monitoring, monitoring visits were conducted to 15 NGOs, distance M&E was held with 4 NGOs.
10. Approaches to and methodology of M&E for TB activities were updated. A Concept, Instruction for organization and holding M&E in the TB program including distance M&E forms (dM&E) were updated and approved. A tender for 4 specialists of the M&E group at the national level was held. An exempt M&E group of 5 specialists was established at the national level.
11. The online training medical advisory commissions by the example of Project ECHO® (Extension for Community Healthcare Outcomes, University of New Mexico in Albuquerque) were first introduced in the TB program.
12. The activities on holding the distance trainings (webinars) in the TB program on the “Moodle” platform were first started, ToRs were prepared, executives for development and implementation of 16 webinars on TB were selected.
13. 6 various operational researches were started, out of them 4 will be completed in 2021, 2 – in 2022.
14. A combined drug Rifampicin+Isoniazid 150+75 mg for continuous treatment phase of 5038 TB patients was procured through GDF to the amount of 121 822,76 USD and distributed to all regions.
15. TB drugs procurement was conducted and 100% of ITR enrollment plan under the GF project was performed: in total 32 (64%) were enrolled for treatment with new TB drugs in the penitentiary system, 18 (36%) – in NSCP/OPCs.
16. A quantiferon test was procured for NTP for 2021-2022 and in order to conduct the OR “Research of prevalence of the latent TB infection and effectiveness of its preventive treatment for sensitive TB and M/XDR TB among contacts and high risk groups”
17. A TWG with participation of NCEM was established. A form of clinical monitoring at the program level in the treatment of DR TB was introduced. A pharmacovigilance section was first developed and included to the Complex TB Plan for 2021-2025. Terms of Reference for a pharmacovigilance specialist in the TB program were prepared. NTBR was improved in terms of PV (report and lists of cases with cancellation of TB drugs due to AE).
18. Contracts with 19 NGOs were concluded, the NGOs started first working at the district level. 255 NGO specialists were involved in implementation of “small” grants, out of them 178 outreach workers, 19 coordinators, 20 social workers, 19 psychologists, 19 phthisiatricians. In total during 2020, 53 303 clients from the target populations were informed about TB by NGOs, 7109 clients were sent to PHC (13% out of the informed), 335 cases of active TB were detected, 677 contacts were examined, 2236 TB patients were taken for supervision, out of them 2125 persons remained adhered, i.e. NGO work effectiveness in prevention of lost to follow up was 95%, 280 patients out of 379 lost to follow up with active TB were returned to treatment.
19. The Draft Methodical Recommendations on getting of state social order for NGOs and Draft Financial Model for calculation of NGO services’ cost were developed.
20. A Draft National ACSM Plan was developed. A pool of journalists – partners of the National TB Program was created.

**In total, the Activities conducted under the Grant contributed to:**

1. Capacity building of the PHC, TBO, NGO specialists through introduction of new training methods (online training medical conciliums at the NSCP level on the example of the Project ECHO®, online trainings were for the first time started), offline training workshops, meetings. $ 58025 were spent for trainings taking into account launch of the online training technologies, development of new modules for webinars.
2. Smooth operation of laboratories in the penitentiary system was carried out as a result of provision of HAIN, BACTEC reagents and GX cartridges to the amount of $ 187 047, as well as support to the TBO laboratories through technical servicing of Xpert MTB / RIF modules to the amount of $ 202 505.
3. NTP laboratory capacity was strengthened through procurement, installation and approbation of the MBT sequencing equipment to the amount of $731 603.
4. Strengthening of activities on TB detection among vulnerable population groups, improvement of adherence to treatment among potential violators thanks to allocated 19 grants for NGOs to the amount of $930 648.
5. Improvement of treatment effectiveness of DR TB patients in the penitentiary system thanks to enrollment for treatment with new TB drugs; in total 50 M/XDR TB patients were enrolled for treatment in 2020. The budget for TB drugs was $621 342. There were no death cases in the penitentiary system in 2020.
6. Risk reduction of relapses and adverse events in the TB treatment thanks to introduction of the active PV system in the country. 2 trainings on pharmacovigilance were hold, TWG was established, NTBR was improved in obtaining the SAE reporting forms to the amount of $34 974.
7. NGOs were actively involved in fight against TB under the COVID-19 restrictive measures. PPEs, sanitizers, bactericidal lamps were procured to the amount of $399 222,5.
8. 6 operational researches were started, and their results will be required to improve a quality of activities on TB detection, treatment, ACSM and prevention. A total budget of the OR contracts was $ 349 429,29.
9. Improvement of the infection control measures in work of TBO, AIDSC, NGO specialists thanks to an additional funding from the GF funds to fight against pandemic. In total $930 295 were spent for procurement of PPEs, sanitizers, antiplague suits, gowns, ventilators, EKG monitors, pulse oximeters. In total 4955 beds for COVID-19 patients were established in the TB program, 21 427 COVID-19 patients were treated, including 214 patients with TB and COVID-19.