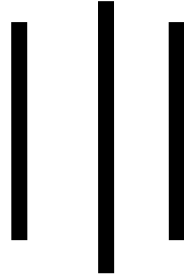
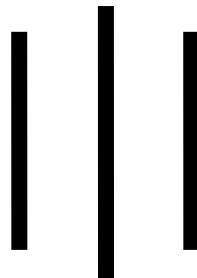




# **TB Nepal**



## **Nepalgunj TB Referral Centre**



### **Annual Report 2079-080**

**Nepalgunj - 4 Salyanibag, Banke**

**Shrawan 2080**

**TB Nepal**  
**Nepalgunj TB Referral Centre**  
Nepalgunj-4 Banke

**Annual Report of 2079/080**

Summary of Target Vs achievement				
Main Activities	Carried out activities	Annual Target (2079-080)	Annual achievement (2079-080)	Progress in %
<b>lfo/f]u alx/+u ;]jf (TB OPD)</b>	Patients Visited in OPD.	30000	26164	87%
	Presumptive TB cases Examined	14000	9729	69%
	TB cases Diagnosed among Presumptive TB	1000	1088	109%
	TB Cases referred to other health facilities for treatment	988	1075	109%
	TB cases enrolled in treatment including referred form other treatment centers	12	20	167%
	TB DOTS visit	10000	12951	129%
	Health education about TB.	24000	26164	109%
<b>lfo/f]u cGt/+u ;]jf (TB In-patients)</b>	TB patient's admission in ward for complication management.	700	807	115%
	TB In-patients death rate	< 2 %	1%	1%
	Bed occupancy rate	75 %	69%	69%
	Average length of stay (days).	6 Days	8 Days	8 Days
<b>k of]uzfnf (Laboratory)</b>	TB new sputum smear test	10000	15547	155%
	TB follow-up sputum smear test.	1500	1877	125%
	Gene X-pert test for TB diagnosis.	1500	5199	347%
	Sputum sample send to reference Laboratory for Culture / drug sensitivity test.	100	534	534%
	HIV Test in new TB	1000	931	93%
	Montoux test	500	493	99%
	Leprosy new skin smear test.	200	47	23%
	Leprosy follow-up skin smear test	50	17	34%

	Other general test ( Basic Blood test)	20000	23174	116%
<b>c;fxfo ;xof]u sf]if</b> (Charity Provision)	Charity provided based on Socio-economic assessment (Food, accommodation, medical investigation, general medicine and Patients travel cost etc).	7700	7265	94%
<b>IhOf{ lfo/]u Joj:yfkg</b> ( MDR TB)	Presumptive DR TB cases screened in OPD	1500	5199	347%
	Presumptive DR TB cases examined	1450	5199	358%
	DR TB Cases Diagnosed from sputum examination	60	34	57%
	DR TB Cases referred for treatment to other health facilities	12	20	167%
	DR TB cases enrolled in treatment including referred form other treatment centers.	50	30	60%
	On treatment DR TB Cases	50	32	64%
	DR TB Treatment Success rate	70%	78%	78%
<b>lfo/]u Joj:yfkg</b> ( General TB)	TB Treatment Success rate	90%	97%	97%
<b>;d'bfodf cfwfl/t k Tolf</b> DR TB CB DOTS Program	Patients for DR TB CB DOTS service	22	48	218%

## **Abbreviation**

NTRC : Nepalgunj TB Referral Centre

DR TB : Drug Resistance Tuberculosis

MDR : Multi Drugs Resistance

HIV : Human Immunodeficiency Virus

AIDS : Acquired Immune Deficiency Syndrome

DOTS : Directly Observed Treatment Short-Course

CB DOTS: Community Based Directly Observed Treatment Short-Course

OPD : Out Patient Department

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## **1. INTRODUCTION**

TB Nepal is a non-religious, non-political, non-profitable and non-governmental organization working in the field of health particularly in TB / DRTB diagnosis, treatment, complication management, awareness raising and Community based DOTS Programme are the main component having 25 bed inpatient services and 20 beds DR TB hostel. It was legally registered at District Administration Office Nepalgunj, Banke (Regd. No 489 / 2060- 5 -10 B.S) and affiliated with Social Welfare Council, Kathmandu, Nepal (Affiliation No. 15748 / 2060 – 9 – 25 BS). The organization is dedicated to support the TB control program of Nepal. Additionally, the organization was established by the group of TB / Leprosy work experience staff in 2003 AD. Now TB Nepal is running the provincial level Nepalgunj TB Referral Centre in Banke District.

### **1.1 Organization Vision**

To make Nepal free from Tuberculosis and Leprosy.

### **1.2 Organization Goal**

To make community free from tuberculosis, Leprosy and HIV/AIDS through preventing transmission and reducing morbidity and mortality rate of TB.

### **1.3 Organization objectives and strategies**

- To control tuberculosis, Leprosy and HIV /AIDS.
- To provide DR TB service for MDR TB patients.
- To save poor and vulnerable communities people from TB, Leprosy, TB/ HIV and MDR TB.
- Provide quality based microscopic center.
- Increase awareness programs including health education about TB, Leprosy and HIV.
- Reduce social and economic burden raised from tuberculosis, Leprosy and HIV.
- To provide equity service.

### **1.4 Project Goal:**

To decrease incidence rate from 238 in 2020/21 to 181 patients per 100,000 population by 2025/26 and decrease mortality rate from 58 in 2020/21 to 23 per 100,000 by 2025/2026. End TB epidemic by 2035; eliminate TB by 2050 and reduce the catastrophic cost to zero.

### **1.5 Major Objective of the project:**

1. To build and strengthen political commitment, sustainability and patient-friendly health system to end TB.
2. To ensure the identification of TB diagnosis, quality treatment and prevention.
3. To Increase case notification through improved health facility based diagnosis; increase diagnosis among children and those with diabetes mellitus.

4. To expand case finding by engaging providers for TB care from the public sector, medical colleges, NGO sector and private sector through results based financing schemes, with formal engagements to notify TB cases.
5. To create a patient friendly ambience in the health facilities, advocacy for TB patients regarding their rights which will, in turn, contribute to the diagnosis and management of TB cases.
6. To contribute to health system strengthening through HR management and capacity development, financial management infrastructure, procurement and supply management in TB.
7. To develop and strength comprehensive monitoring and evaluation system.
8. To develop plans so that NTP can function even at times of crises like natural disasters or public health emergencies.

## **2. BACKGROUND**

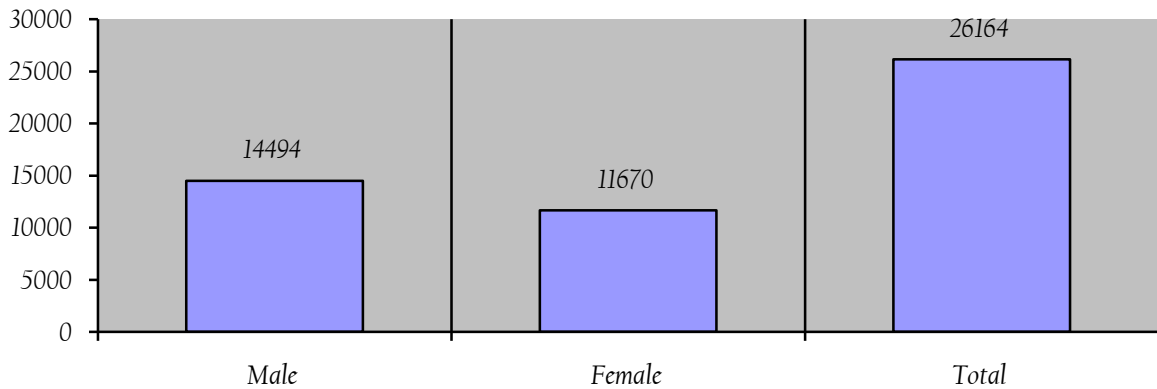
TB Nepal is located in Salyanibag Ward No. 4, in the heart of the Nepalgunj Sub-Metropolitan City. A rapidly expanding sub-metropolitan city, Nepalgunj is not far from the Indian border. It serves as the administrative center for the Banke district. The majority of the clients served by the TB Referral Center Nepalgunj are residents of Lumbini province, Karnali province, Sudurpaschim province and the Indian border region. Leprosy and tuberculosis services are both offered by TB Nepal.

## **3. SERVICES AT TB NEPAL**

### **3.1 OPD service**

Nepalgunj TB Referral Centre (NTRC) has two separate (TB and Leprosy) OPD services. TB suspect and TB patients visited for TB investigation, follow-up visit and their complication management at TB Nepal Nepalgunj TB Referral centre Banke. Total 26164 patients visited (Male 14494 and 11670 female) for OPD service in the year of 2079-080.

*NTRC OPD Visit\_ 2079-080*



**Main Activities at OPD**

- TB / Leprosy suspects' registration and screening.
- TB / Leprosy diagnosis.
- TB case registration and TB treatment on DOTS.
- TB/ Leprosy case Referrals after diagnosis.
- Counseling and advocacy of patients for appropriate care in respective center if needs.
- TB / Leprosy related Health education to inpatients and outpatients.
- Late or defaulted TB and Leprosy patients chasing.



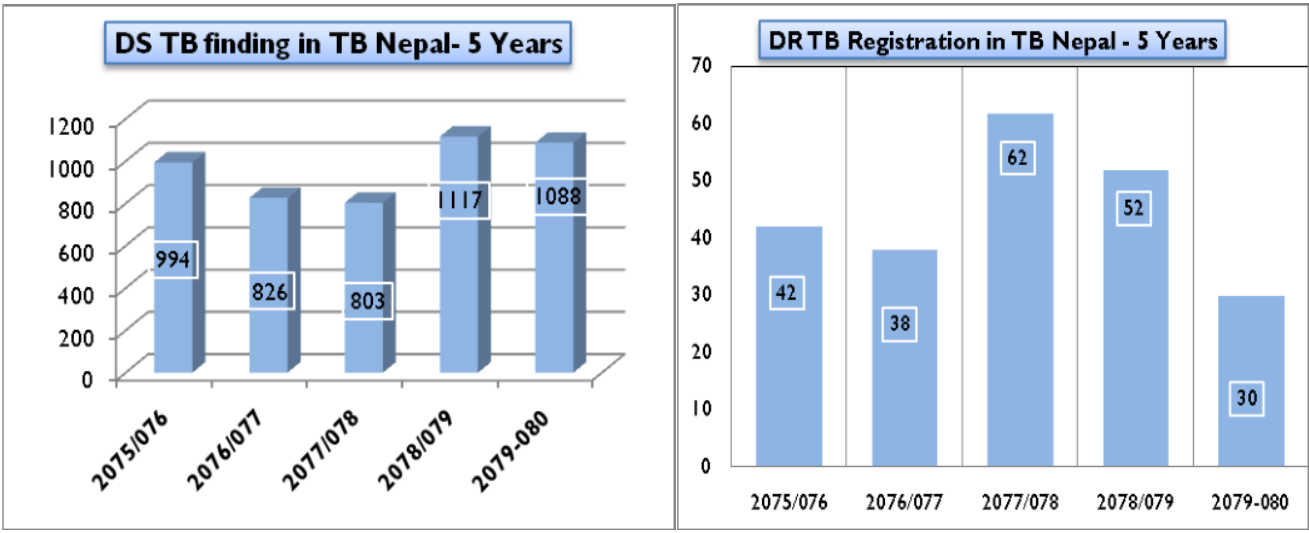
***Fig: 1 Patients screening in OPD by Medical Officer***



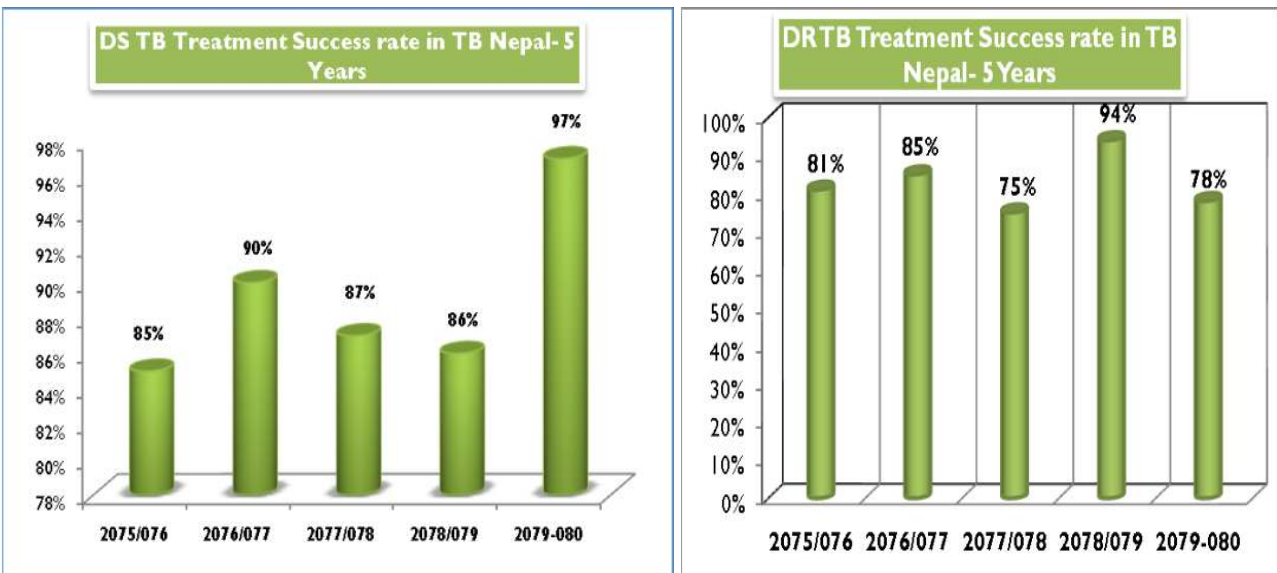
### 3.2 TB Treatment Services

Nepalgunj TB Referral Center (NTRC) is one of the 24 hrs DOTS (Directly Observed Treatment Short course) center of the district. The center provides daily DOTS (Directly Observed Treatment Short course) to first line TB patients and second line TB (MDR TB treatment) service to Multi-drug resistant TB patients. The centre also supervises and monitors MDR TB activities in the 12 MDR TB sub-center of the various part of this province. In total 30 DR TB cases were registered and 4 Transfer in cases with in the year 2079-080. Currently, 32 DRTB patients taking second line TB treatment from various center and sub- centre of the Province. DR TB treatment success rate of TB Nepal is 78%.

#### 5 years Trend of Drug Sensitive & Drug Resistance Tuberculosis Diagnosis



#### 5 years trend of DS and DR TB Treatment Success rate in TB Nepal



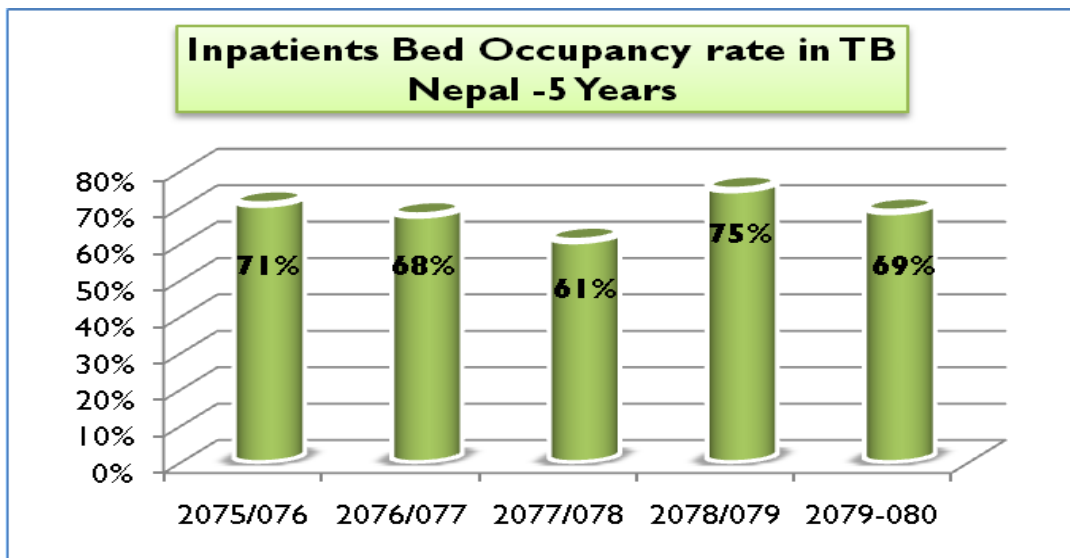
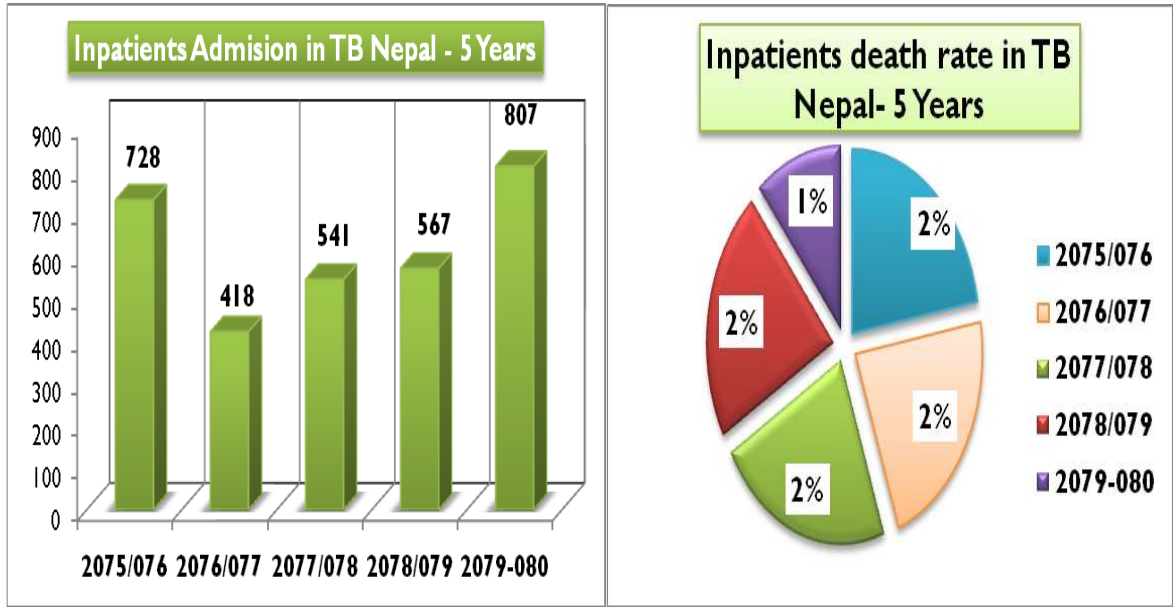


***Fig: 2 Availability of 24 hours TB DOTS***

### **3.3 In-patients service**

The Nepalgunj TB referral Center has a 25-bed in-patient TB unit where care is given to very ill TB patients and TB suspects who need in-patient care but cannot receive such care elsewhere. The in-patient service is accessible around-the-clock every day. Both paramedics and medical professionals are always prepared for on-call duty and emergency management. For research and counseling, we have a very strong network with Medical College Hospital, Eye Hospital, Bheri Hospital, and different doctors. Patients with severe lung involvement, TB meningitis, spinal TB, MDR TB, TB patients with HIV/AIDS Co-infection, adverse drug reactions, and critically unwell TB suspects benefit from in-patient care. Patients and their family are also given access to patient recreation, counseling, advocacy, and health education services. Accommodation and nutritious food are free of charge. In the year 2079–080, a total of 807 TB patients were admitted. At the TB side, the average length of stay was 8 days and the bed occupancy rate was 69%. Patients admitted have a 1% mortality rate.

**5 years trend of Inpatients Admission, death rate and Bed occupancy rate in TB Nepal**







***Fig:3 Inpatient care at TB Nepal***



***Fig:4 Extraction of fluid for Tuberculosis diagnosis by experience doctor***

### **3.4 Laboratory**

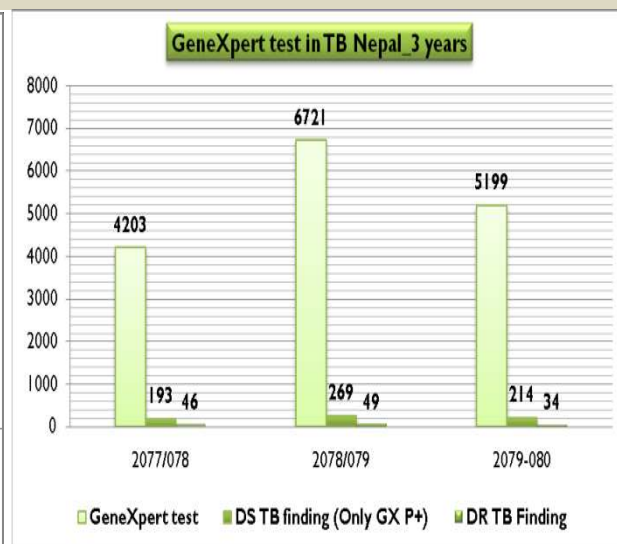
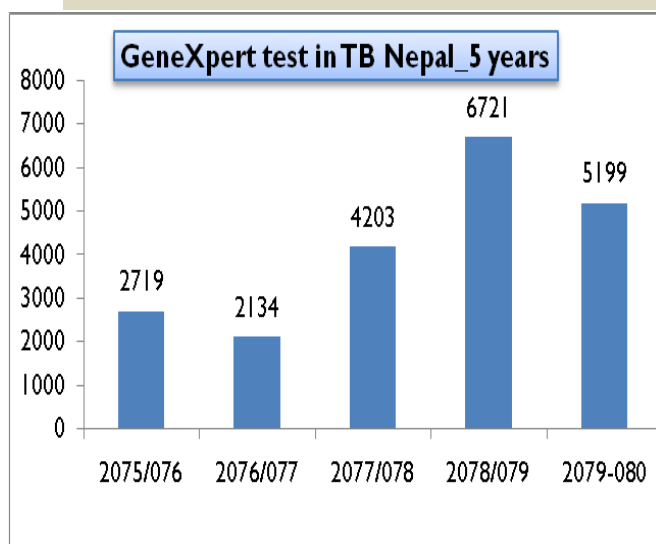
The laboratory at the Nepalgunj TB Referral Center is fully stocked with the essential tests to diagnose tuberculosis. Our laboratory's primary role is sputum testing. Additionally, various tests are performed in the lab, including routine blood testing, HIV Mantoux tests, urine tests,

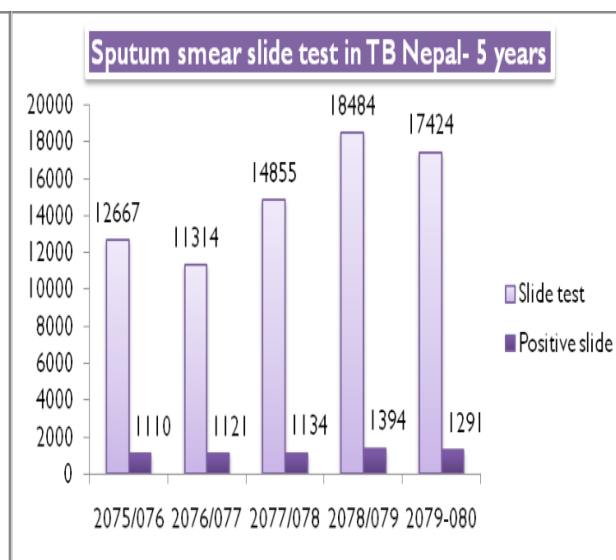
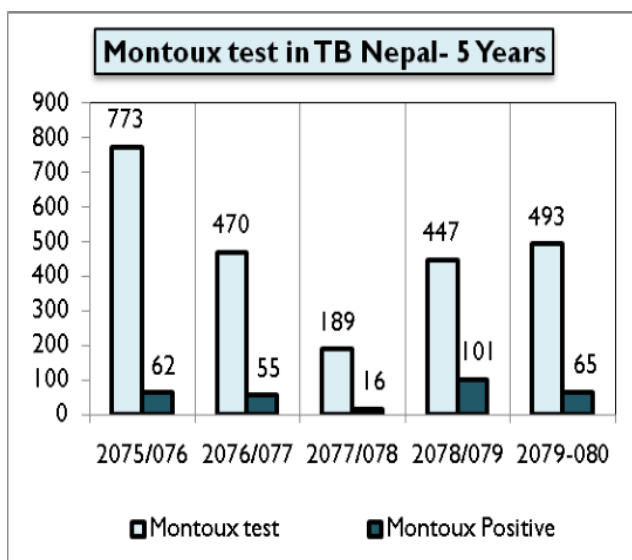
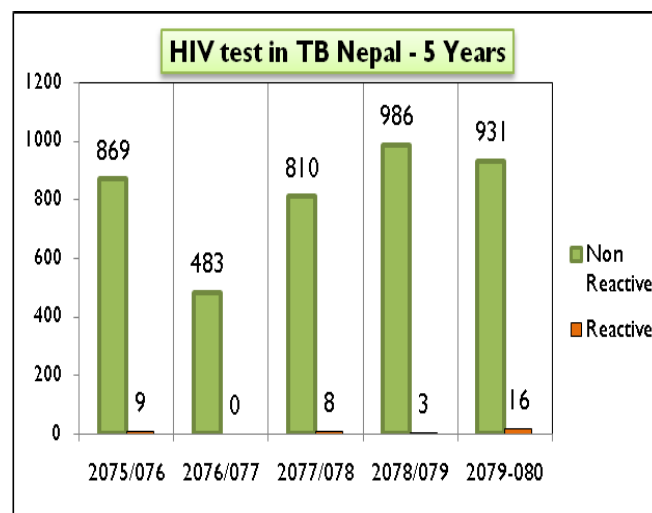
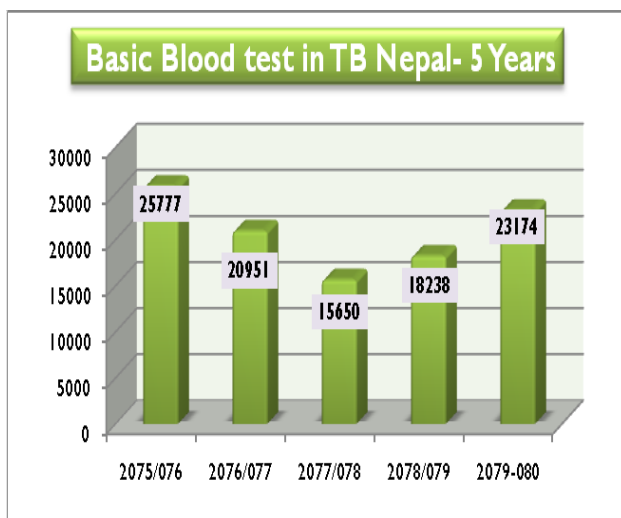
and stool tests. TB Nepal has a cbs colter machine for hematological analysis as well as a chemical analyzer for laboratory testing. For the TB investigation, this center has a facility for Gene X-pert testing and fluorescence microscopy. For sputum culture and drug sensitivity testing, we have a strong network with the national reference laboratory. 534 samples of sputum were sent to Genet-up Kathmandu this year for culture and sensitivity testing. This year, our laboratory conducted 17424 sputum smear slide tests, 931 HIV testing, 493 Mantoux tests, near to 23174 routine blood tests, 5490 Gene X-pert tests, and 5199 individual tests. Our four-monthly quality control report is outstanding, according to the Government Quality Control Laboratory.



**Fig:5 Sputum microscopy and Gene X-pert service**

**5 years trend of GeneXpert test, Basic Blood test, HIV test, Montoux test and Sputum Smear Slide test TB Nepal**





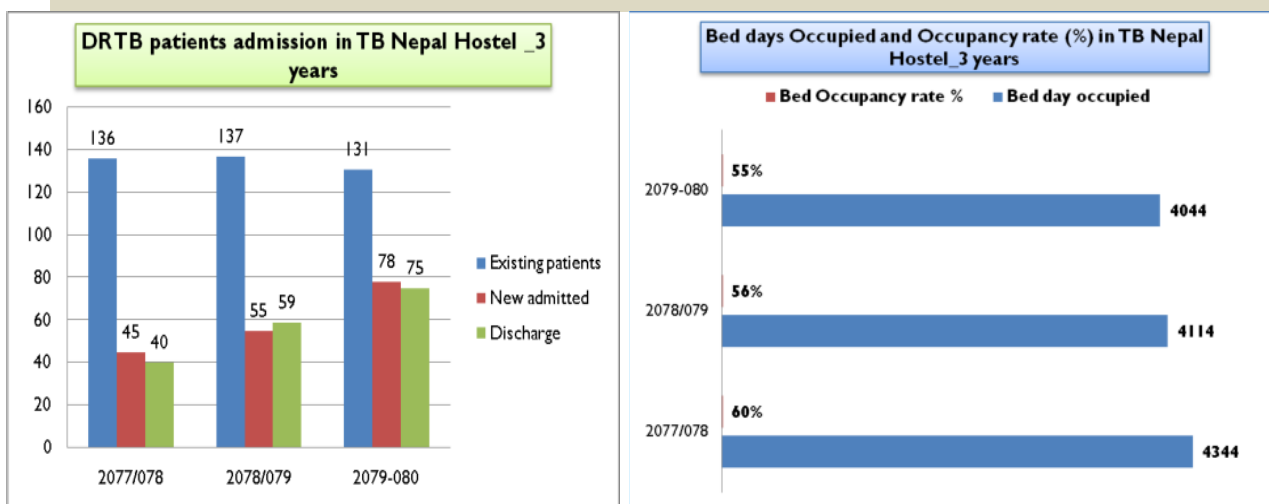
### 3.5 DR TB Hostel service

Nepalgunj TB Referral Centre is strategically based in Banke districts headquarter. The surrounding areas are highly affected by TB and there is still a high prevalence rate in the country. MDR TB Patients are from different parts of the Lumbini province, Karnali province and sudharpachim province for DR TB service. TB related medicines are free supplying from the National Tuberculosis Center.

#### ❖ Problem facing to manage with DR TB patients are as below:

- i. The duration of treatment period is long for 9 to 24 months and DR TB service is not available at all health facilities. DR TB patients are not allowed to take medicines to their homes as the medicines have severe reactions, side effects and being compulsory institution based DOTS.
- ii. Some of the patients escaped from the clinic for their own work and fun due to the weak infrastructure and open boundaries.

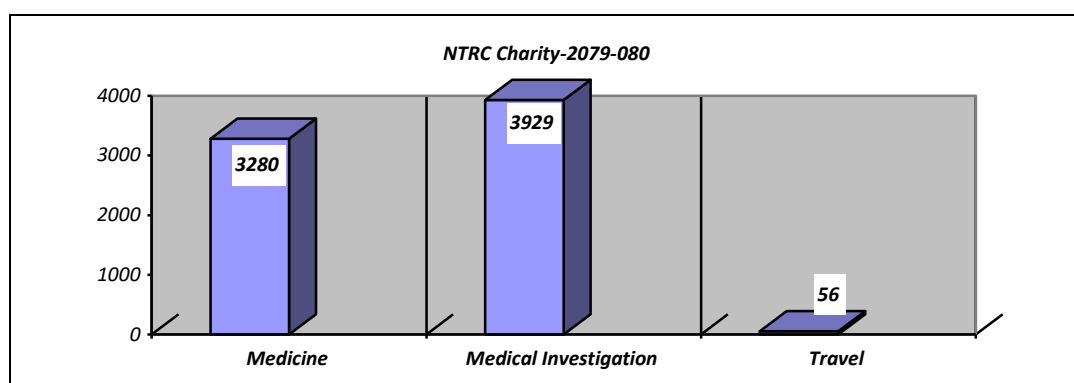
### 3 years trend of DR TB Patient's admission, Bed days occupied and Occupancy rate in TB Nepal Hostel



## 4. PROGRAMMATIC ACTIVITIES

### 4.1 Charity / poor fund

TB Nepal is managing charity fund for the vulnerable and ultra-poor. Nearly 7265 patients are being benefited from this Charity/Poor Fund in year 2079-080. Through medicine charity, investigation charity, support in transportation fare and food and accommodation. Charity is providing after the socio-economic assessment form filled from the patients and their families. Food and accommodation are free for all admitted patients.





## 4.2 Health Education Session

In addition to providing the usual services, the center actively engages in health education of patients about TB and its symptoms, transmission, diagnosis and treatment at OPD and in-patients

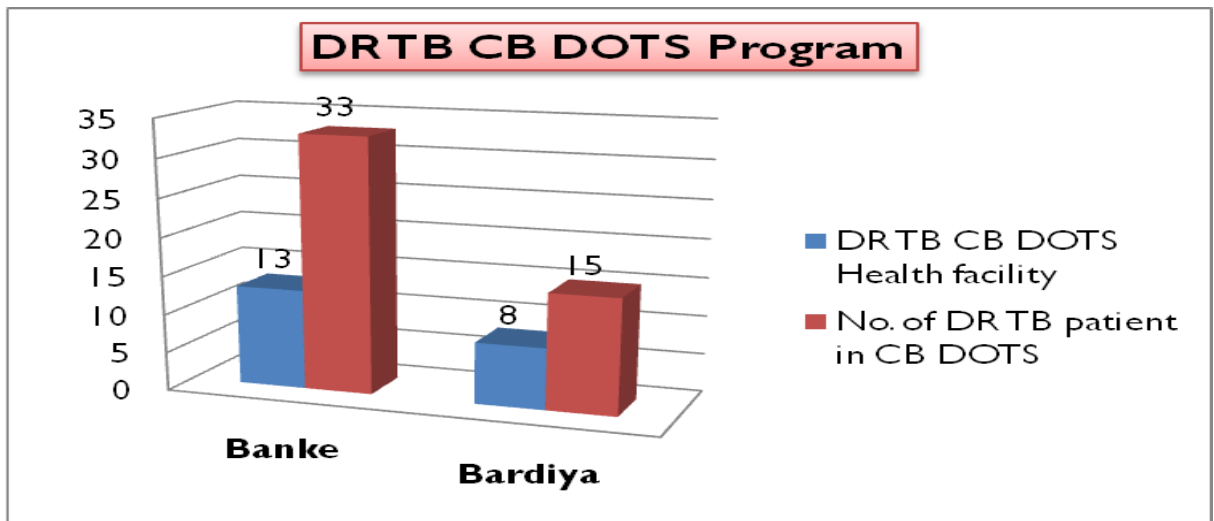


***Fig: 6 conducting health education session by TB Nepal staff***

## 4.3 DR TB CB DOTS Programme

Community based MDR TB DOT treatment management is a system to provide daily treatment to MDR TB patients under direct supervision by community health worker for those DR TB patients who are unable to attend DR TB centre and DR TB sub-centre daily for DOT. Mainly our target is those patients who live far from 8 Kilometer or takes 30 minutes walk from DRTB centre or sub-centre for daily treatment. TB Nepal has been running the CB DOTS program for the patients in Banke and Bardiya, who want to go to their own place to get the medicine from the nearest health facility as TB patients have to take the medicine for a long time, out of which 48 DR TB patients are currently receiving this service from various 21 health facility of Banke and Bardiya district of this province. DR TB Community based DOTS programme is supported by Damien Foundation.





#### 4.4 Awareness Rising

Beside the regular services, the center was actively involved in awareness raising activities in World Tuberculosis Day, Leprosy Day and HIV/AIDS Day in coordination with the District public Health Office Banke.



***Fig: 7 Awareness raising activities in World Tuberculosis Day***

#### 4.5 Research (Study) activity

TB Nepal Nepalgunj TB Referral Center and the **BNMT Nepal** collaborated to launch the TARGET TB study activity (**Birat Nepal Medical Trust**). It is a research project on Mycobacterium tuberculosis Gene sequencing. We exclusively collect sputum samples from patients who have smear tests that are positive and send those samples to the GENETUP laboratory. Altogether, 958 samples were collected and send to GENETUP laboratory.

Similar to This, The Government of Nepal and The TB Nepal Nepalgunj TB Referral Center partnered on the DR TB survey during this fiscal year, and 185 samples have been collected.

#### 4.6 TB Day Celebrations

The Health Office, Banke organized World TB Day 2023, which was celebrated on March 24 with the theme "Yes! We can end TB!" Staff members from TB Nepal took an active part in the rally, which began from outside the Nepalgunj Sub-Metropolitan City Office area and wrapped up at the Nepalgunj Tuberculosis Referral Center with a speech from Health Office Banke. The celebration includes participation from NGO/INGOs, the private sector, and students studying health sciences from several colleges. Patients suffering from Tuberculosis who undergoes treatment to TB Nepal, received fruits and juice as part of their care.



**Fig: TB Day Celebration Rally**



**Fig: Fruits and juice Distribution in TB Nepal**

#### 4.7 Patients centric support from BNMT Nepal

For TB patients who received treatment on-site during this fiscal year, BNMT Nepal donated beds, carpets, bed seats, blankets, and various clothing items, including jackets, shoes and

trousers under **sustain V project**. In order to ensure that patients, visitors, and employees have access to safe drinking water, **BNMT Nepal** also supports water filtering system.



*Fig: Health product and other item distribution program by BNMT Nepal*

## 5. MONITORING AND EVALUATION

The Nepalgunj TB Referral Center maintains an up-to-date client and activity log. Staff from the TB Center attended a quarterly conference regarding TB held at the provincial, district, and palika levels. Supervisory visits by the Save the Children team, DTLO, RTLO, and NTCC supervisor occurred periodically. This year, NTCC and Save the Children/Global Fund performed a supervisory visit to assess and supervise the TB activities.

The Nepalgunj TB Referral Center conducts internal monitoring and evaluation of the center's performance on a monthly, quarterly, and annual basis. This includes interviewing patients and having those interviews documented by a third party. TB Nepal is actively involved in Provincial-Level TB-related training, supervision, and meetings every four months.

## ANNEXES

### Annex 1: Financial status

<u>TB Nepal Total Income &amp; Expenditure of FY 2079/080</u>			
Particulars	Income Rs.	Expenses Amount Rs.	Expenses %
Save the Children US/Global Fund (For Nepalgunj TB Referral Centre)	19187088	18684258	97.37%
BNMT Nepal (For Target TB Program )	434763.15	452635.85	104.11%
DHO Banke (For Nepalgunj DRTB Hostel)	2526705	2526705	100%
Damien Foundation Nepal (For Nepalgunj Leprosy Referral Centre & CBDOTS Program)	1189821	1107124	93.05%
DHO Banke (For DRTB Patients Nutrition allowance)	1232606	1232606	100%
TB Nepal Income	3196661	2947206.15	92.20%
Total Rs.	27767644.15	26950535	97.05%

**Annex II: Name List of Staffs**

<b>S.N</b>	<b>Name of Staffs</b>	<b>Designation</b>	<b>Contact No</b>
1	Mr. Hikmat Bdr. Khadka	Program Manager	9848029335
2	Mr. Kamal Dhakal	Clinic In-charge	9848086945
3	Dr. Satya Kumar Shahi	Medical Officer	9843414875
4	Dr. Karunesh Gupta	Medical Officer	9816520766
5	Mrs. Meena Regmi	Nursing Supervisor	9812517522
6	Mr. Chewan Kumar Sharma	Lab In-charge	9847892350
7	Mr. Amar Bahadur Sunar	Finance. Asst.	9866711012
8	Ms. Sanjita Chaudhary	Ward In-charge	9848109165
9	Ms. Megha B.K	Staff Nurse	9816506134
10	Ms. Reshmi KC	Staff Nurse	9868939092
11	Mr. Karna bdr Kc	Lab technician	9810910849
12	Mr. Rabindra Dhamala	Radiographer	9811416465
13	Mr. Narayan Chaudhary	H.A	9858034286
14	Ms. Bhimkala Pandey	Data Recorder / M&E	9864851627
15	Mr. Roshan Shah	Store-Asst.	9868041791
16	Mr. Dharma Nath Yogi	Lab Assistant	9804545307
17	Mr. Sushil Kumar Tharu	Admin Finance .Asst.	9868069743
18	Mr. Bibek Regmi	Lab Asst.	9841895679
19	Mr. Suk Bahadur Roka	CMA	9816547833
20	Mrs. Manju Thapa	CMA	9800544243
21	Mr. Chandra Prasad Dangl	CMA/Dispenser	9848020609
22	Mr. Prakash Rana	CMA	9844850358
23	Mr. Ram Sagar Chaudhary	CMA	9849880885
24	Mr. Jag Bahadur Chaudhari	Defaulter tracker/chaser	9848198371
25	Mr. Prem Bahadur Rokaya	CMA-Registration assistant	9818731439
26	Mrs. Tej Kumari Bista	ANM	9804564702
27	Ms. Gita Kunwar	ANM	9844839792
28	Mrs. Pooja Nepali	ANM	9819572359
29	Mrs. Aarati Kumari Barma (Kurmi)	ANM	9820449428
30	Mrs. Sushma Thapa	Patients Advocator	9848135831
31	Mr. Krishna Kumar Khatri	Office Helper	9848034269
32	Mrs. Shova Regmi	Office Helper	9848199772
33	Mrs. Sara Thapa	Office Helper	9848174440
34	Mrs. Hairani Tharu	Office Helper	9800537082
35	Mrs. Shobha Sunar	Office Helper	9815500143
36	Mr. Uttam Midhun Magar	Office Helper	9858043700
37	Mr. BaburamTharu	Office Helper/Night watchman	9866728254



## **Annex III: New Proposed Nepalgunj TB Referral Centre Building**



We would like to express our hearty gratitude towards National Tuberculosis control Centre , Save the children US/Global fund and Leprosy control Division for proper guidelines and cooperation in relation to work. This is our opportunity to learn from National Tuberculosis Control Centre (NTCC) and save the children. We are proud to be a partner of NTCC, save the children US / global fund, BNMT and Leprosy Control Division (LCD).Working with partnership with NTCC and LCD in controlling and treating Tuberculosis and Leprosy disease in the Lumbini province of the country. We would like to keep continue this relationships with NTCC , LCD , Save the children US / global fund , Damien Foundation Nepal , BNMT, individual and other Funding agency for the help to the people affected by the TB / DR TB and Leprosy.

**Kamal Dhakal**

***Clinic In-charge***

TB Nepal

Nepalgunj TB Referral Center

Nepalgunj-4, Salyanibagh Banke