

RNTCP IN HIMACHAL PRADESH

Revised National Tuberculosis Control Programme has been implemented in Himachal Pradesh in phased manner. Hamirpur was the first district to take up the activity in 1995, followed by Kangra at Dharamshala and Mandi in 1998. These three districts are collectively called as 1st year district. Shimla, Solan and Sirmaur have started service delivery from 1st July 2000. These three districts are collectively called as 2nd year districts. Out of remaining six (collectively called as 3rd year districts) districts Lahul and Spiti, Una and Kullu has started service delivery in first quarter of 2001 and Bilaspur in the 2nd quarter of 2001. Entire state has been covered in Jan. 2002.

OBJECTIVES OF THE RNTCP

(1) Achieve >85% cure rate

It is recommended that districts should achieve & maintain >85% cure rate in total diagnosed new sputum positive patients (who are infectious to others)

(2) To achieve & maintain at least 70% case detection among the cases in the community
This is the second objective and recommended only after the 1st objective of cure rate >85% has been achieved.

THE 5 COMPONENTS OF RNTCP

- Political and Administrative commitment to ensure funds, staffing, procurement and support as necessary
- Diagnosis primarily by Microscopy among patients attending all health facilities.
- Uninterrupted supply of good quality drugs for Short Course Chemotherapy (SCC).
- Direct Observation of Treatment (DOT) at a time and place convenient to patients by a trained observer who is accountable to the Health system.
- Accountability: an intensive system of monitoring and supervision that tracks the diagnosis, progress and outcome of each and every patient treated

1. Centers for RNTCP Service:

Sr. No.	District	DTC	TU	MC	MC NGOs	DOT Centres
1	Bilaspur	1	2	11	1	All Health Institutions (Allopathic and Ayurvedic)
2	Chamba	1	5	14	1	
3	Hamirpur	1	3	11	1	
4	Kangra	1	12	35	1	
5	Kinnaur	1	2	07	0	
6	Kullu	1	4	09	0	
7	L & Spiti	1	2	06	0	
8	Mandi	1	5	24	0	
9	Shimla	1	4	23	0	
10	Sirmaur	1	5	13	0	
11	Solan	1	3	17	0	
12	Una	1	3	10	0	
	HP	12	50	180	4	

DTC: District Tuberculosis Centre, **TU:** Tuberculosis Unit, **MC:** Microscopy Centre.

2. Indicators:

S.No.	Category	Indicators Fixed
1	Case Detection	> 70%
2	Cure Rate/treatment completed	> 85%
3	Death Rate	< 4%
4	Failure Rate	< 4%
5	Default rate	< 5%

Case detection Rate District wise (>70%)

Districts	2009	2010	2011	2012	2013	1stQ14	2ndQ14
Bilaspur	85	85	76	75	78	75	112
Chamba	92	83	84	90	97	100	122
Hamirpur	77	86	72	72	72	78	80
Kangra	67	68	64	75	75	83	100
Kinnaur	98	95	87	88	65	66	105
Kullu	117	103	66	78	86	105	140
L&S	40	37	72	51	36	14	122
Mandi	88	84	70	77	77	81	97
Shimla	80	76	70	74	81	64	88
Sirmaur	86	80	78	77	69	74	135
Solan	90	89	85	73	84	66	80
Una	67	78	76	80	73	76	107

Cure Rate District wise (>85%)

Districts	2009	2010	2011	2012	2013	1stQ14	2ndQ14
Bilaspur	87	83	88	83	87	85	85
Chamba	84	82	86	80	80	84	89
Hamirpur	87	91	91	88	86	89	85
Kangra	87	87	87	90	91	87	88
Kinnaur	87	77	87	85	81	75	80
Kullu	89	87	90	90	90	90	92
L&S	97	89	100	91	87	0	10
Mandi	87	88	85	85	87	87	88
Shimla	88	86	89	89	89	86	92
Sirmaur	86	86	84	84	83	86	83
Solan	89	88	86	87	88	88	89
Una	90	91	92	96	91	95	97

Default Rate District wise (<5%)

Districts	2009	2010	2011	2012	2013	1stQ14	2ndQ14
Bilaspur	3	4	3	6	4	4	5
Chamba	5	4	6	3	6	2	3
Hamirpur	5	3	3	3	4	2	4
Kangra	4	3	2	3	4	3	1
Kinnaur	7	12	7	6	5	8	10
Kullu	3	5	4	3	3	0	2
L&S	0	33	0	0	18	0	0
Mandi	3	4	5	3	3	1	2
Shimla	3	4	3	6	4	5	3
Sirmaur	6	7	7	7	8	6	4
Solan	2	2	5	2	4	2	3
Una	2	1	0.8	0.9	1	0	1

Death Rate District wise (<4%)

Districts	2009	2010	2011	2012	2013	1stQ14	2ndQ14
Bilaspur	5	6	4	5	4	2	2
Chamba	2	4	3	4	5	3	3
Hamirpur	5	4	6	5	5	5	8
Kangra	4	5	5	4	12	5	5
Kinnaur	4	5	5	5	6	8	5
Kullu	2	5	2	3	3	5	0.8
L&S	0	0	0	0	17	0	0
Mandi	4	3	3	4	3	1	2
Shimla	1	2	3	2	2	5	1
Sirmaur	3	2	3	3	3	2	3
Solan	5	4	3	4	2	3	3
Una	5	3	4	3	5	4	1

3. Total Cases treated till 30-06-2014 : 192761

District	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Bilaspur							380	696	653	659	629	726
Chamba								625	795	1096	1195	1197
Hamirpur	42	692	722	798	899	917	910	842	970	772	714	729
Kangra				232	2003	2199	2195	2594	2642	2711	2613	2505
Kinnaur							6	149	164	143	186	186
Kullu							714	1479	1520	1563	1588	1475
L & S							70	46	69	60	80	132
Mandi					1434	2032	2348	2483	2379	2279	2177	2058
Shimla						412	1053	1240	1582	1416	1760	1700
Sirmaur						292	814	906	969	1035	1058	917
Solan						254	802	828	913	980	1009	1015
Una							471	568	654	744	688	663
Total	42	692	722	1030	4336	6097	9763	12456	13310	13458	13697	13303

District	2007	2008	2009	2010	2011	2012	2013	1q14	2q14
Bilaspur	553	772	711	757	635	614	649	150	196
Chamba	687	1130	1113	1155	1169	1140	1156	296	369
Hamirpur	785	840	793	906	771	752	761	174	210
Kangra	2593	2585	2590	2759	2623	2571	2613	636	791
Kinnaur	199	210	221	216	225	203	189	61	76
Kullu	1349	1395	1337	1387	1299	1310	13321	377	499
L & S	127	98	79	91	81	70	63	5	21
Mandi	2095	2078	2111	2170	2051	2020	2157	554	693
Shimla	1690	1691	1784	1557	1551	1763	1766	390	514
Sirmaur	985	1030	1064	1146	1037	1102	1014	272	422
Solan	1135	1181	1242	1289	1328	1307	1285	368	407

Una	696	608	698	746	731	763	706	183	232
Total	13611	13618	13743	14179	13501	13615	13691	3466	4430

4. Total Chest Symptomatic examined for diagnosis :

2005	2006	2007	2008	2009	2010	2011	2012	2013	1q14	2q14
64270	66203	63520	61927	64566	69133	70916	74401	78188	22079	24101

5. Total lives saved till 30-06-2014 : 27537

6. Achievements:-

Year / Qtr	Population Covered in Lakhs	NSP Detected	% Achievements of NSP	Total Cases Detected	% Achievements of Total Cases
1996	4	223	66	692	73
1997	4	224	66	722	88
1998	7	401	67	1030	64
1999	26	1700	73	4336	72
2000	30	2259	88	6097	88
2001	46.4	3614	91	9763	92
2002	60.7	4559	79	12456	79
2003	60.7	4830	83	13310	84
2004	60.7	4954	86	13458	85
2005	64.5	4832	80	13697	83
2006	64.5	4965	82	13303	81
2007	64.5	4978	81	13611	82
2008	64.5	5091	83	13618	82
2009	64.5	5057	82	13743	83
2010	67.27	5133	80	14179	82
2011	67.93	4748	73	13501	77
2012	69.27	5060	77	13615	76
2013	69.85	5137	77	13691	76
1q14	69.40	1307	79	3466	78
2q14	69.40	1708	104	4430	99

ARI (Annualized Risk of TB Infection) upto 2001 is 1.7 & from 2002 is 1.9 as intimated by CTD.

7. Achievements:-

	Year 2004	Year 2005	Year 2006	Year 2007	Year 2008	Year 2009	Year 2010	Year 2011	Year 2012	Year 2013	1q14	2q14
Total pts. regd. for treatment	13458 (86%)	13697 (83%)	13303 (81%)	13611 (82%)	13618 (82%)	13743 (83%)	14179 (82%)	13501 (77%)	13615 (76%)	13691 (76%)	3466 (78%)	4430 (99%)
NSP regd. for treatment	4954 (86%)	4832 (80%)	4965 (82%)	4978 (81%)	5091 (83%)	5057 (82%)	5133 (80%)	4748 (73%)	5060 (77%)	5137 (77%)	1307 (79%)	1708 (104%)
New smear negative pts. regd. for treatment	2884	2763	2414	2621	2541	2374	2438	2214	2146	1999	568	671
New EP pts. regd. for treatment	2753	3139	3665	2948	2921	3223	3363	3259	3222	3480	807	1143
3 months conversion rate of NSP	92%	91%	90%	92%	92%	92%	91%	91%	89%	92%	94%	93%
Cure rate of NSP	87%	88%	86%	87%	87%	88%	87%	88%	87%	87%	87%	90%

(>85%)												
Success rate of NSP	88%	89%	88%	89%	89%	90 %	89%	89%	89%	89%	90%	91%
Default Rate NSP(<4%)						4%	4%	4%	3%	3%	2%	3%
Failure Rate NSP(<4%)						2%	3%	3%	3%	2%	3%	2%
Died of NSP (>4%)	4%	4%	4%	3%	4%	3%	3%	4%	3%	4%	4%	3%

NSP:- New Smear Positive Patients, **EP:-** Extra Pulmonary

Diagnostic Facilities for MDR-TB Patients

1. Intermediate Reference Laboratory(IRL) Dharampur

LPA lab for diagnosis of MDR TB cases functional & Certified C&DST lab if functional & Accredited

2. IGMC Shimla

Gen-Expert and liquid culture lab Functional & BSL3 is under process

3. Dr. RPGMC Tanda

C&DST lab by solid media for follow up is functional

4. DELEK Hospital (Tibetan Govt.) Dharamshala

Diagnosis MDR cases by CB-NAAT

MDR Status till 30-09-2014 District wise:-

District	Diagnosed	Died	Defaulted	On Treatment	X-DR
Bilaspur	37	11	2	17	0
Chamba	39	02	3	30	0
Hamirpur	34	1	2	26	1
Kangra	132	23	11	70	4
Kinnaur	3	0	0	3	0

Kullu	66	12	6	44	1
L & S	0	0	0	0	0
Mandi	135	21	4	90	0
Shimla	40	7	1	30	1
Sirmaur	23	3	1	19	0
Solan	25	4	1	18	0
Una	29	4	0	23	0
Total	573	88	31	370	7