



Water Borne Diseases

Jt. Director of Health Services

(Malaria, Filariasis & Waterborne Diseases) Pune-1

Epidemic Control Programme

Aims & Objectives: -

- To prevent & control outbreaks of water borne diseases.
- Give feedback to districts about outbreaks in their area.
- Water quality monitoring.
- TCL powder quality monitoring.
- To reduce morbidity & mortality due to water

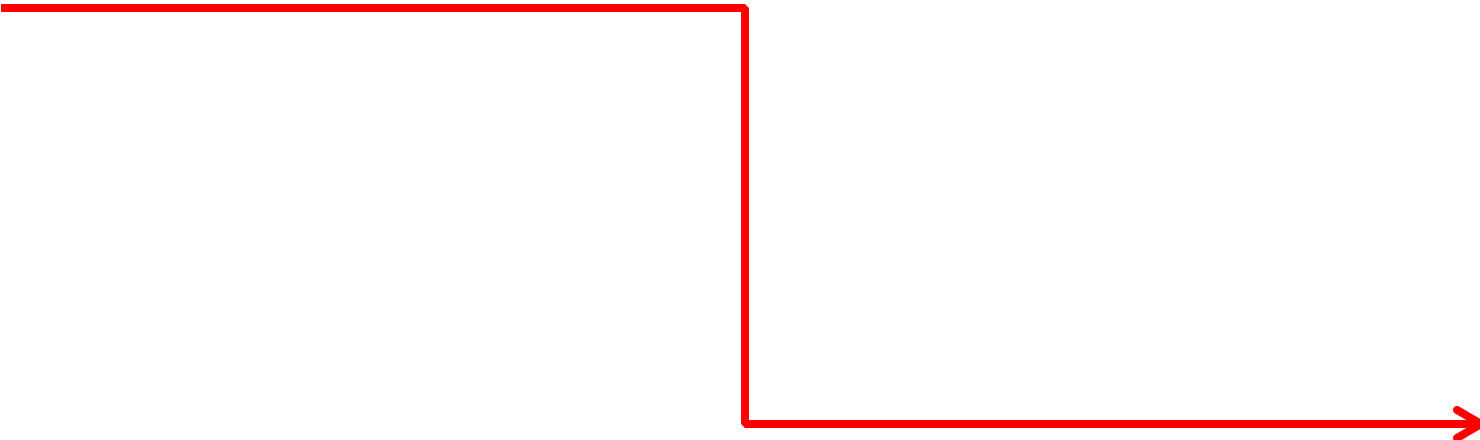
Other Programmes

- **YAWS Elimination Programme** – In Chandrapur & Gadchiroli districts. No case in state since 2000.
- **Guinea Worm Elimination Programme** -No case in state since 1991. WHO declared India Guinea Free in Feb 2000.

Other Activities -

- Influenza A H1N1 Prevention & Control
- Leptospirosis Prevention & Control

WBD Outbreaks – Last 3 Years



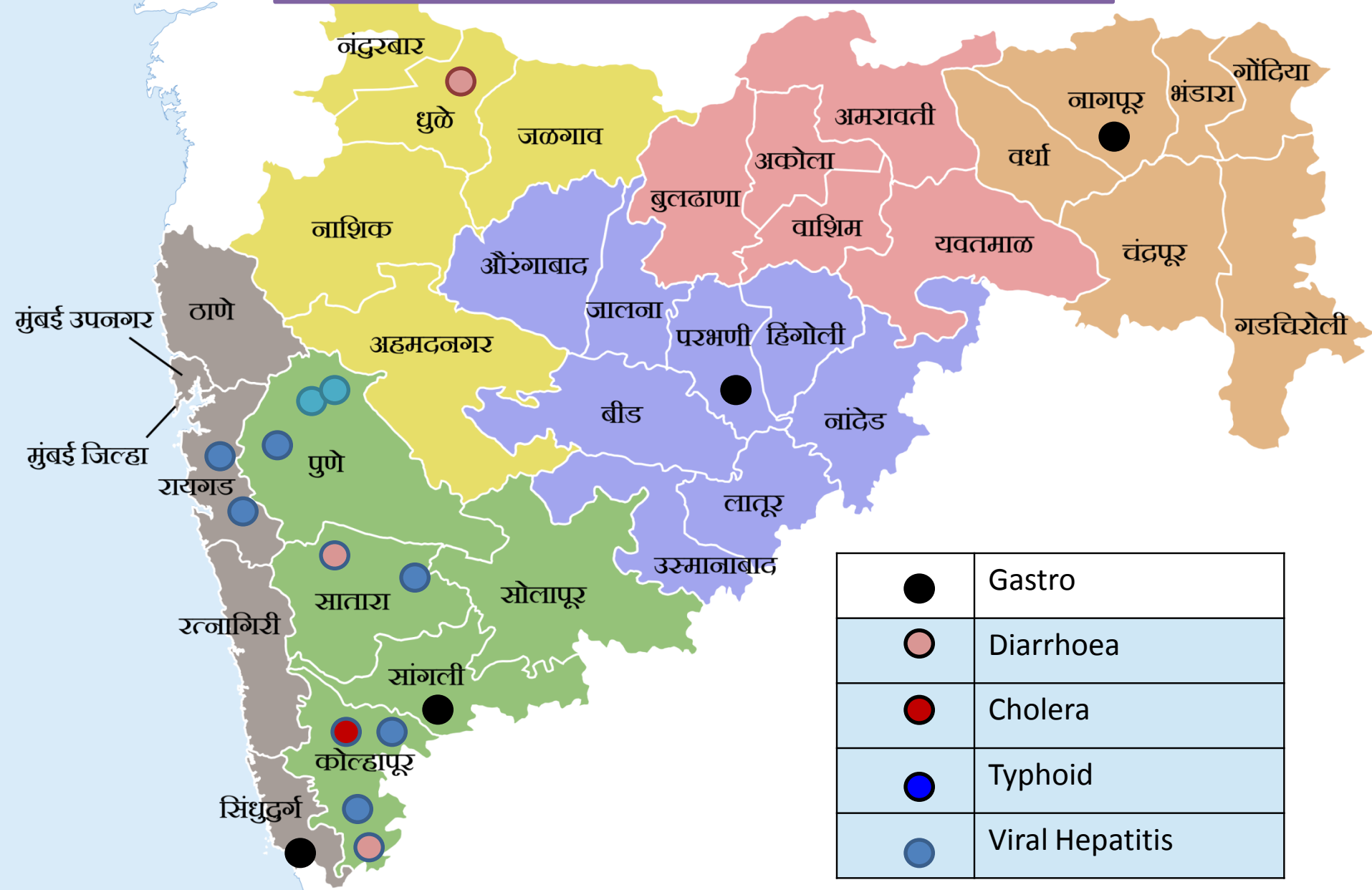
Year wise Comparison of Waterborne Outbreaks

Sr. No	Disease	2011			2012			2013			2014 Up to 29.05. 14		
		O	A	D	O	A	D	O	A	D	O	A	D
1	Gastro	31	1801	6	52	2075	14	23	799	5	4	441	0
2	Diarrhoea	31	2371	1	49	2715	4	45	2021	8	3	199	0
3	Cholera	4	291	2	4	337	0	15	566	6	1	5	1
4	Viral Hepatitis	17	742	3	20	6337	42	12	333	3	6	136	0
5	Typhoid	4	132	2	1	158	0	0	0	0	2	367	1
6	Leptospirosis	89	120	21	6	6	6	12	42	9	0	0	0
State Total		176	5457	35	132	11628	66	107	3761	31	16	1148	2

Division wise WBD Outbreaks 2013

Sr No	Name of Health Circle	Total WBD outbreaks in 2013	Total Deaths due to WBD outbreaks
1	Thane	26	13
2	Nashik	28	5
3	Pune	7	1
4	Kolhapur	19	3
5	A'bad	5	2
6	Latur	5	1
7	Akola	3	0
8	Nagpur	14	6
	Total	107	31

Water Borne Diseases' Outbreaks – 2014 (up to 29 May)



Division wise WBD Outbreaks

Up to 29 May 2014

Sr No	Name of Health Circle	Total WBD outbreaks	Total Deaths due to WBD outbreaks
1	Thane	2	0
2	Nashik	1	0
3	Pune	3	1
4	Kolhapur	8	1
5	A'bad	1	0
6	Latur	0	0
7	Akola	0	0
8	Nagpur	1	0
	Total	16	2

Timeliness of Reporting

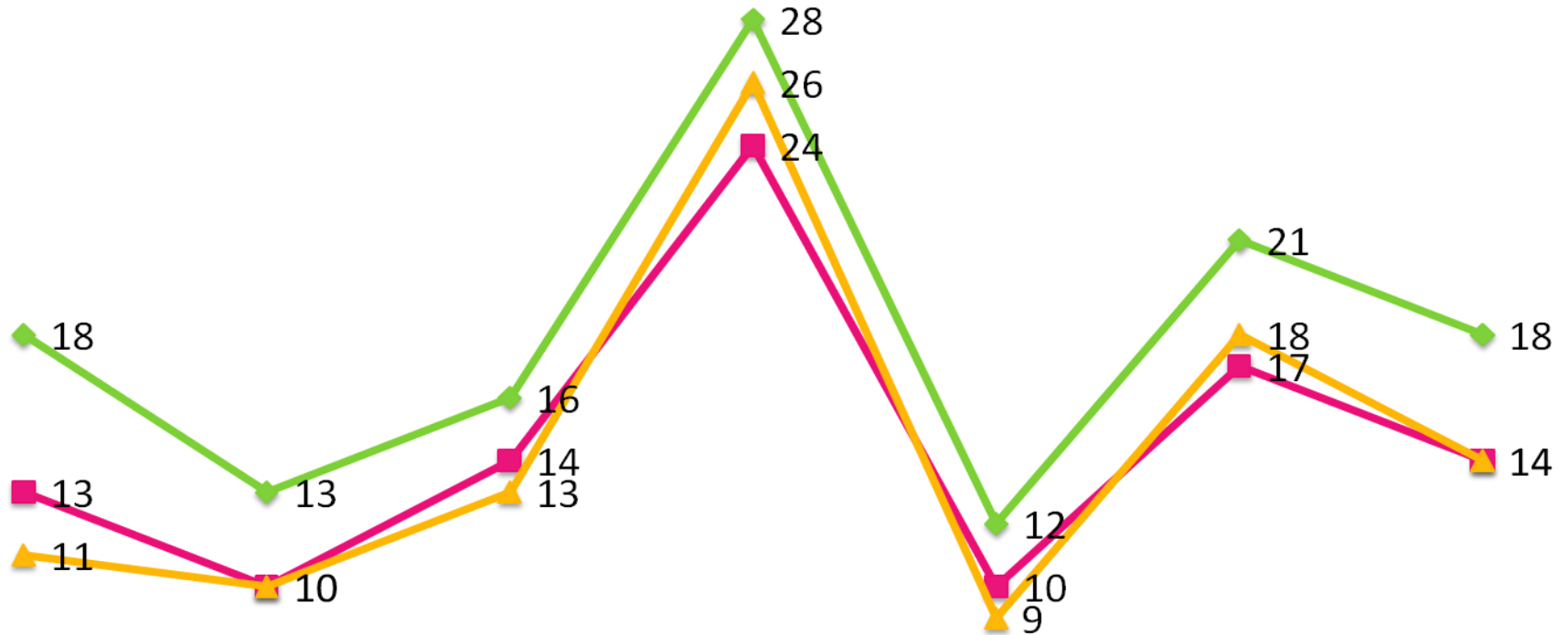
WBD Outbreaks

Timely Reported
OB one each from
Pune & Kolhapur

Districts With Highest & Lowest Water Contamination (April 2014)

Low Water Contamination			Top Water Contamination	
Sr. No.	District	% Water Contamination	District	% Water Contamination
1	Nagpur	4	Latur	27
2	Pune	5	Jalna	26
3	Wardha	5	Nanded	25
4	Satara	5	Aurangabad	23
5	Chandrapur	6	Akola	22

Division Wise % Water Contamination



Thane
Division

Pune Division

Nasik
Division

Aurangabad
Division

Nagpur
Division

Amravati
Division

State

◆ 2010-11

■ 2011-12

▲ 2012-13

Districts With Highest & Lowest Substandard TCL 2013-14

Best Five			Worst Five	
Sr. No.	District	% Sub standard TCL	District	% Sub standard TCL
1	Aurangabad, Hingoli, Latur, Gadchiroli, Gondia, Solapur, Ratnagiri	0	Sindhudurg	50
2	Satara, Chandrapur	1	Nanded	32
3	Sangli, Raigad	2	Nandurbar	18
4	Kolhapur	3	Akola, Parbhani, Ahmednagar, Pune	14
5	Jalgaon, Wardha	4	Washim, Beed, Thane	12

Districts With Maximum & Minimum Red Cards

Best Performer			Worst Performer	
Sr No	Districts	% Grampanachayat with Red Card	Districts	% Grampanachayat with Red Card
1	Ratnagiri,Solapur,Sangli, Nagpur,	0	Akola	13.65
2	Amravati,Buldhana	0.12	Thane	8.37
3	Wardha	0.19	Gadchiroli	5.57
4	Sindhudurg	0.23	Gondia	3.78
5	Jalgaon	0.26	Osmanabad	3.38

State Average – 1.87%

Leptospirosis : Last 5 Years' Situation

Leptospirosis 2013

Sr No	District	Cases	Deaths
1	Thane	14	1
2	Raigad	16	3
3	Ratnagiri	101	3
4	BMC	233	3
5	Thane Corp.	24	7
6	M Bhayander	1	0
7	Thane Circle	389	17
8	Pune	1	1
9	Pune Circle	1	1
10	Sindhudurg	51	1
11	Kolhapur Circle	51	1
12	Wardha	2	1
13	Gadchiroli	10	0
14	Nagpur Circle	12	1
15	State Total	453	20

Leptospirosis

Up to May 2014

Sr No	District	Cases	Deaths
1	Thane	1	0
2	Ratnagiri	1	0
3	BMC	18	0
Total	State Total	20	0

Number of samples tested are not up to mark in

- Raigad (0),
- Ratnagiri (5) &
- Thane (1)

as compared to Sindhudurg (560) & MCGM (2310)

Influenza A (H1N1) Last 4 Years Information

	2010	2011	2012	2013	2014 (Up to May)
No. of patients screened	2288302	695675	746755	732161	2,67,532
No.of suspected cases given Tamiflu	332166	27759	78453	55561	7911
No. of patients found +ve	6118	42	1564	643	28
No. of deaths	669	6	135	149	7

Influenza A H1N1 2014

Sr No	District	Cases	Deaths
1	BMC	7	0
2	M Bhayinder Corp.	2	0
3	PMC	7	0
4	Kolhapur	3	2
5	Nashik	3	1
6	Nagpur	6	4
	State Total	28	7

Plan of Action for 2014-15

- Identification of high risk villages.
- Special focus on villages with Red card.
- Conduction of sanitary survey.
- Preparation & implementation of newly designed Leptospirosis Prevention & Control Programme by NCDC.
- Capacity building of ASHA in identification & reporting of suspected OB.

Thanks..