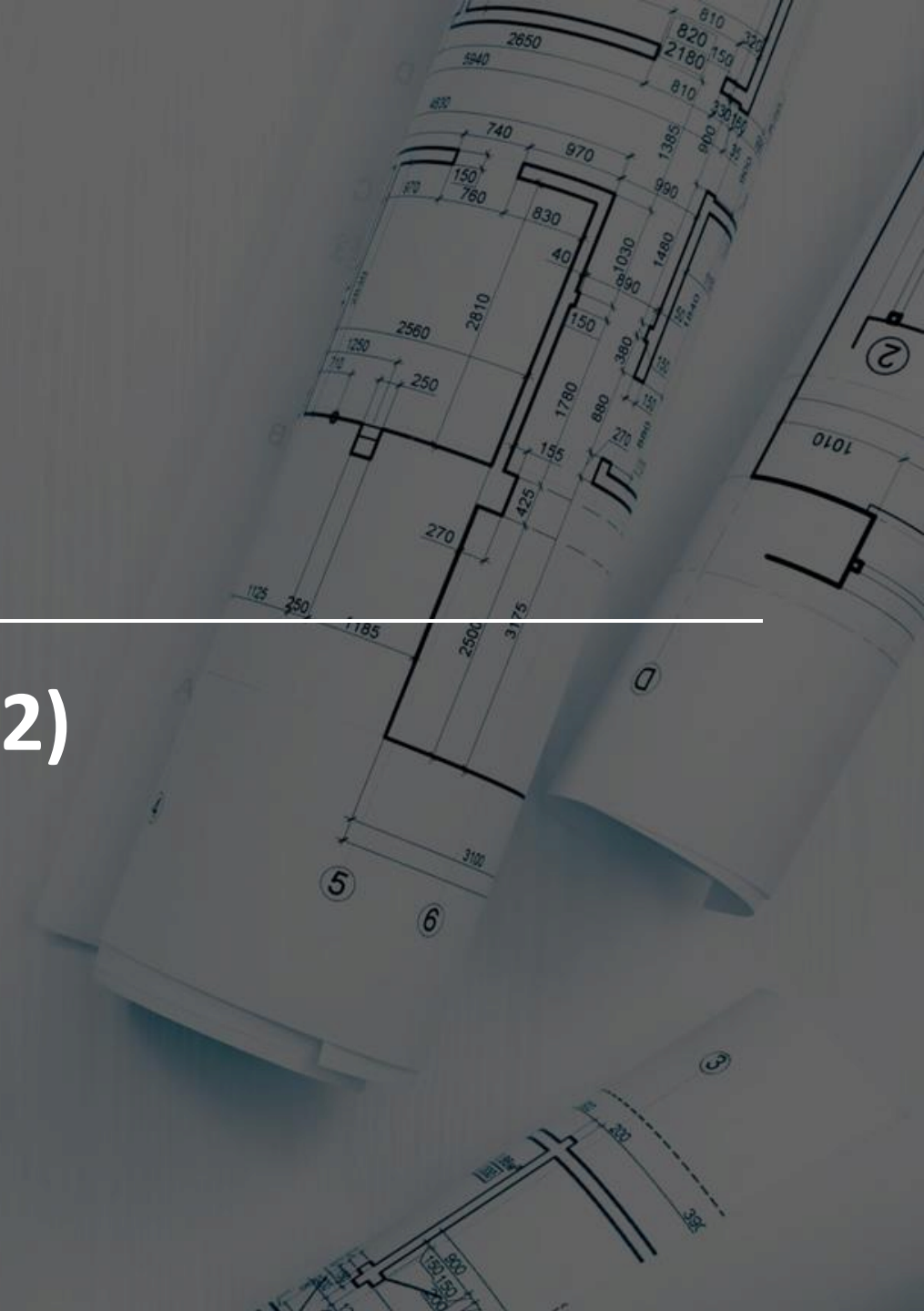




# State Level Webinar on 22<sup>nd</sup> April 2022

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- **Maternal Death Analysis (2021-22)**

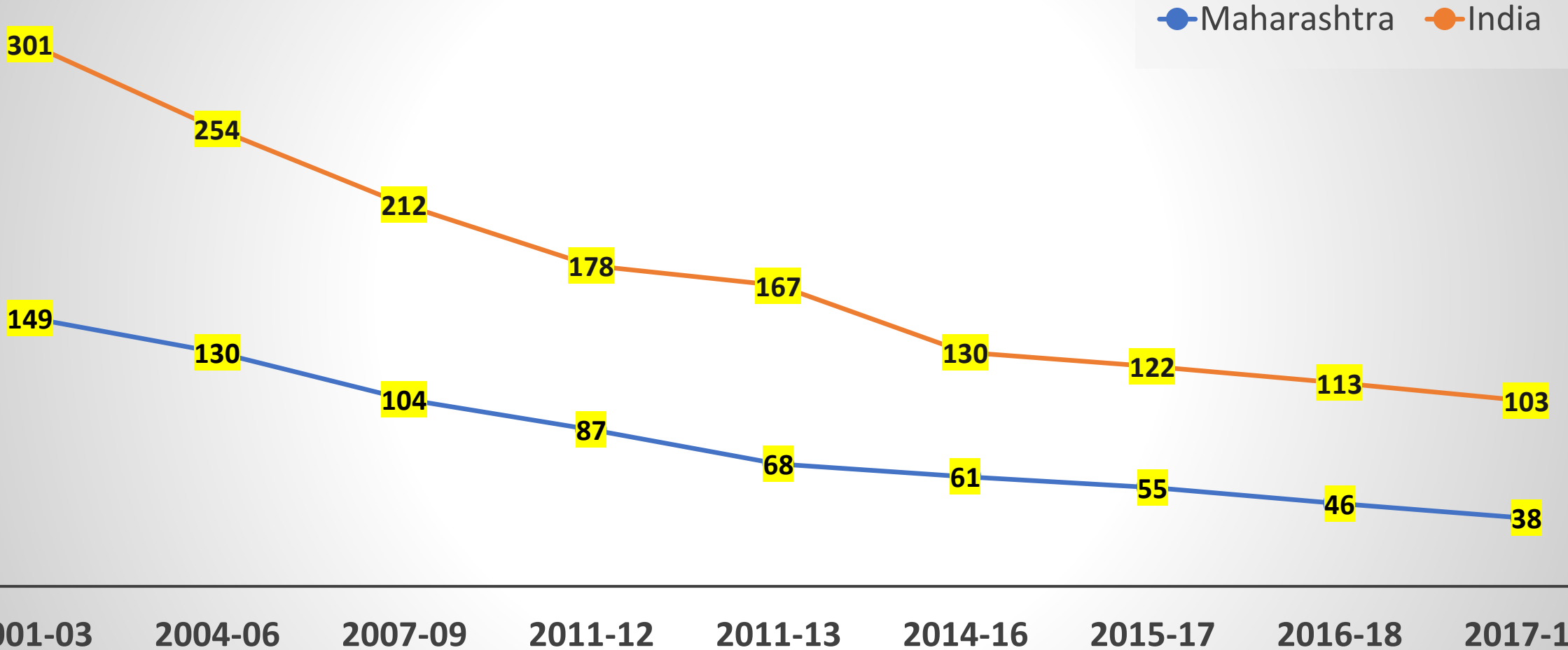


## Background

- “Maternal death is the death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the duration and site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management but not from accidental or incidental causes”.
- key indicator- Maternal Mortality Ratio (MMR) .
- MMR is defined as the number of maternal deaths during a given time period per 100,000 live births during the same time period. The target 3.1 of Sustainable Development Goals (SDG) set by United Nations aims at reducing the global maternal mortality ratio to less than 70 per 100,000 live births.
- In India, Maternal Mortality continues to be a major public health concern .Currently Maharashtra has MMR 38 in 2017-19 (*India MMR- 103 & Kerala – 30, Source: Special Bulletin on Maternal Mortality in India 2017-19 released in March 2021*).
- State achieved SDG in 2013 (MMR as 68)

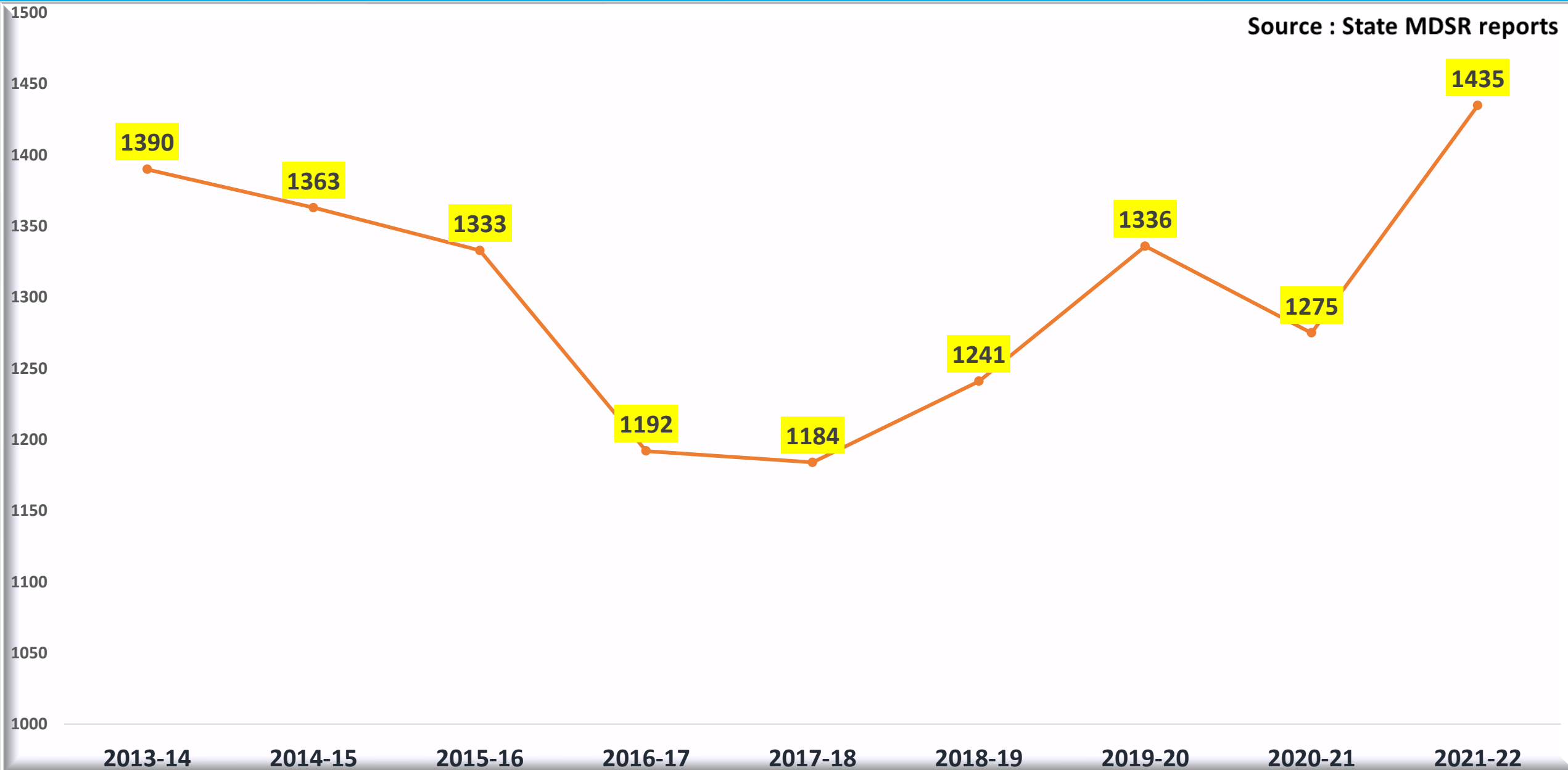
# Maternal Mortality Ratio(MMR) in India & Maharashtra state

Source : SRS report on maternal mortality



# Number of maternal deaths in Maharashtra

Source : State MDSR reports



# District wise comparison of maternal death (2020-21 and 2021-22)

Sr No	District	2020-21	2021-22	Absolute Diff. (+/-)	Sr No	District	2020-21	2021-22	Absolute Diff. (+/-)
1	Thane	8	11	3	18	Parbhani	11	9	-2
2	Palghar	12	19	7	19	Hingoli	8	5	-3
3	Raigad	35	30	-5	20	Latur	7	10	3
4	Nasik	10	9	-1	21	Osmanabad	8	4	-4
5	Dhule	7	4	-3	22	Beed	16	10	-6
6	Nandurbar	40	42	2	23	Nanded	19	29	10
7	Jalgaon	21	16	-5	24	Akola	10	2	-8
8	Ahmadnagar	19	11	-8	25	Washim	5	2	-3
9	Pune	3	11	8	26	Amarawati	48	25	-23
10	Solapur	4	2	-2	27	Yeotamal	18	24	6
11	Satara	21	20	-1	28	Buldana	10	13	3
12	Kolhapur	15	8	-7	29	Nagpur	4	6	2
13	Sangli	0	0	0	30	Wardha	19	22	3
14	Sindhudurg	3	2	-1	31	Bhandara	11	9	-2
15	Ratnagiri	12	5	-7	32	Gondia	16	18	2
16	Aurangabad	5	2	-3	33	Chandrapur	7	0	-7
17	Jalna	6	6	0	34	Gadchiroli	15	22	7
						<b>District Total</b>	<b>453</b>	<b>408</b>	<b>-45</b>

# Corporation wise comparison of maternal death (2020-21 and 2021-22)

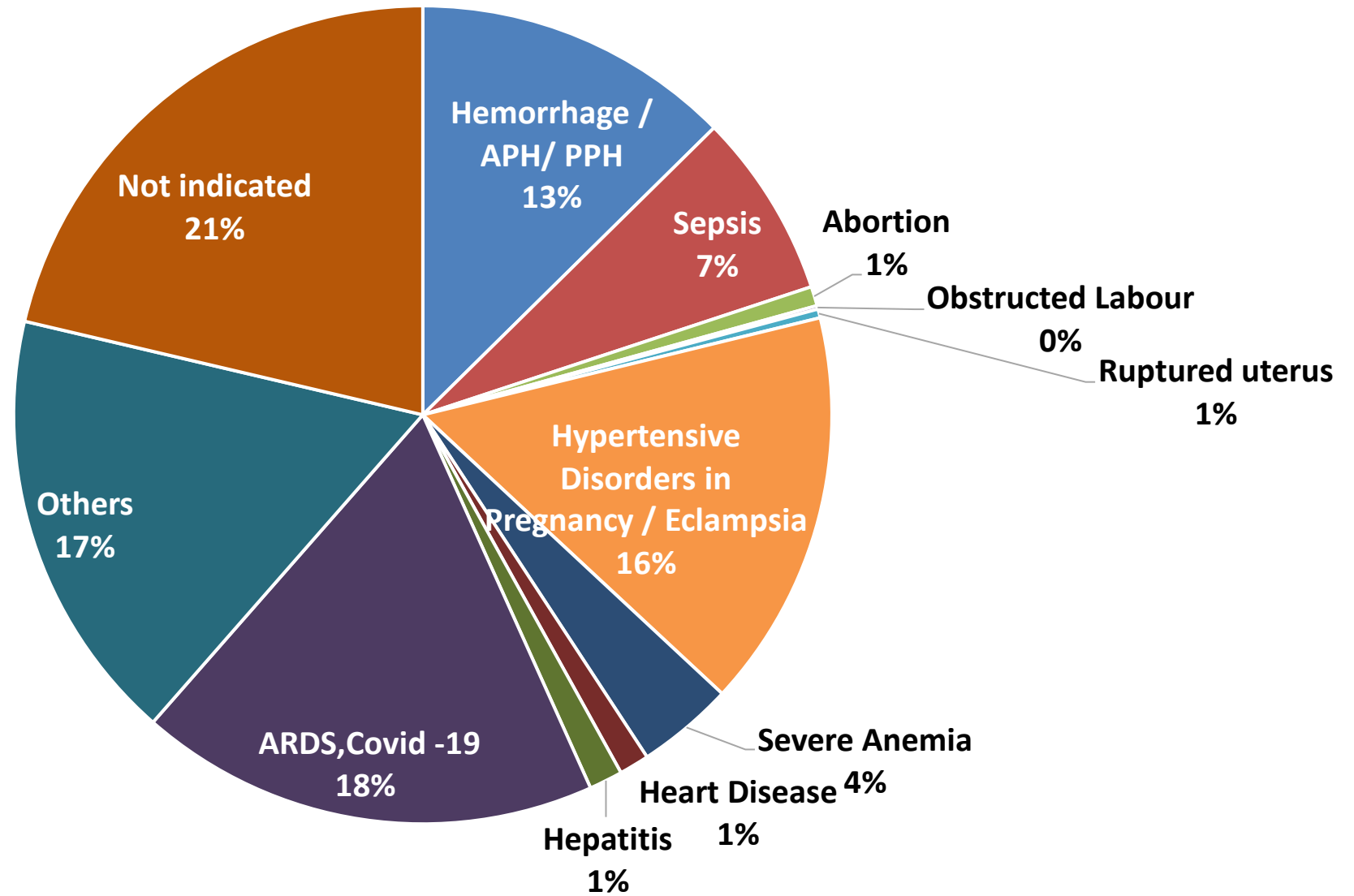
Sr No	District / Corporation	2020-21	2021-22	Absolute Diff. (+/-)
1	Br. Mumbai MC	193	192	-1
2	Thane MC	45	30	-15
3	Bhiwandi-Nij MC	9	3	-6
4	KDMC	3	1	-2
5	M.Bhaindar MC	5	3	-2
6	Navi Mumbai MC	21	18	-3
7	Vasai Virar MC	8	4	-4
9	Nashik MC	65	60	-5
10	Malegaon MC	19	20	1
11	Dhule Mc	15	28	13
12	Jalgaon MC	8	25	17
13	Ahmednagar MC	8	12	4
14	Pune MC	57	103	46
15	PCMC	20	22	2
16	Solapur MC	39	46	7
17	Kolhapur MC	21	38	17
18	Sangli -KUP MC	21	54	33
19	Aurangabad MC	61	86	25
20	Nanded WL MC	2	3	1
21	Akola MC	36	42	6
22	Amarawati MC	7	6	-1
23	Nagpur	129	169	40
24	Chandrapur MC	29	18	-11
25	Latur MC	1	44	43
	<b>Corp Total</b>	<b>822</b>	<b>1027</b>	<b>205</b>
	<b>State Total</b>	<b>1275</b>	<b>1435</b>	<b>160</b>

# Blocks with increase in numbers of maternal deaths (2021-22, As per Place of residence)

Blocks with minimum 7 deaths

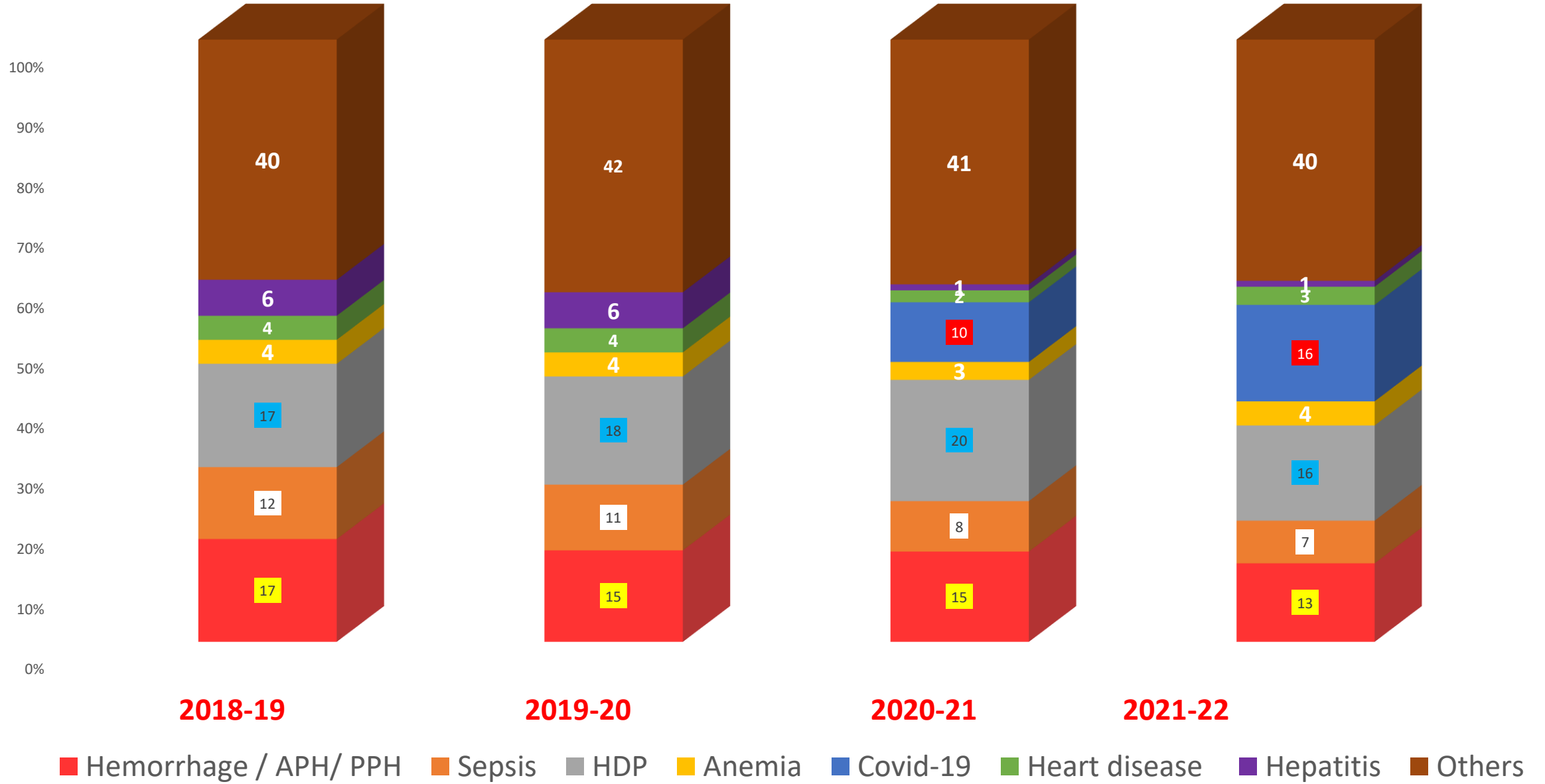
Sr. No.	District	Block Name	Maternal deaths	Sr. No.	District	Block Name	Maternal deaths
1	Nashik	Malegaon	13	16	Wardha	Wardha	8
2	Kolhapur	Karveer	12	17	Nashik	Dindori	8
3	Raigad	Karjat	12	18	Pune	Haveli	8
4	Gondia	Gondia	12	19	Akola	Akola	7
5	Amravati	Dharni	11	20	Yeotmal	Pusad	7
6	Dhule	Sakri	11	21	Aurangabad	Kannad	7
7	Nashik	Niphad	11	22	Aurangabad	Sillod	7
8	Kolhapur	Hatkangle	10	23	Satara	Karad	7
9	Sangli	Miraj	10	24	Raigad	Panvel	7
10	Thane	Ambernath	10	25	Bhandara	Bhandara	7
11	Latur	Nilanga	9	26	Jalgaon	Jalgaon	7
12	Dhule	Dhule	9	27	Nandurbar	Akkalkuwa	7
13	Nandurbar	Nandurbar	9	28	Nashik	Kalwan	7
14	Nandurbar	Navapur	9	29	Pune	Daund	7
15	Gadchiroli	Dhanura	8				

# Cause wise analysis maternal death (2021-22)



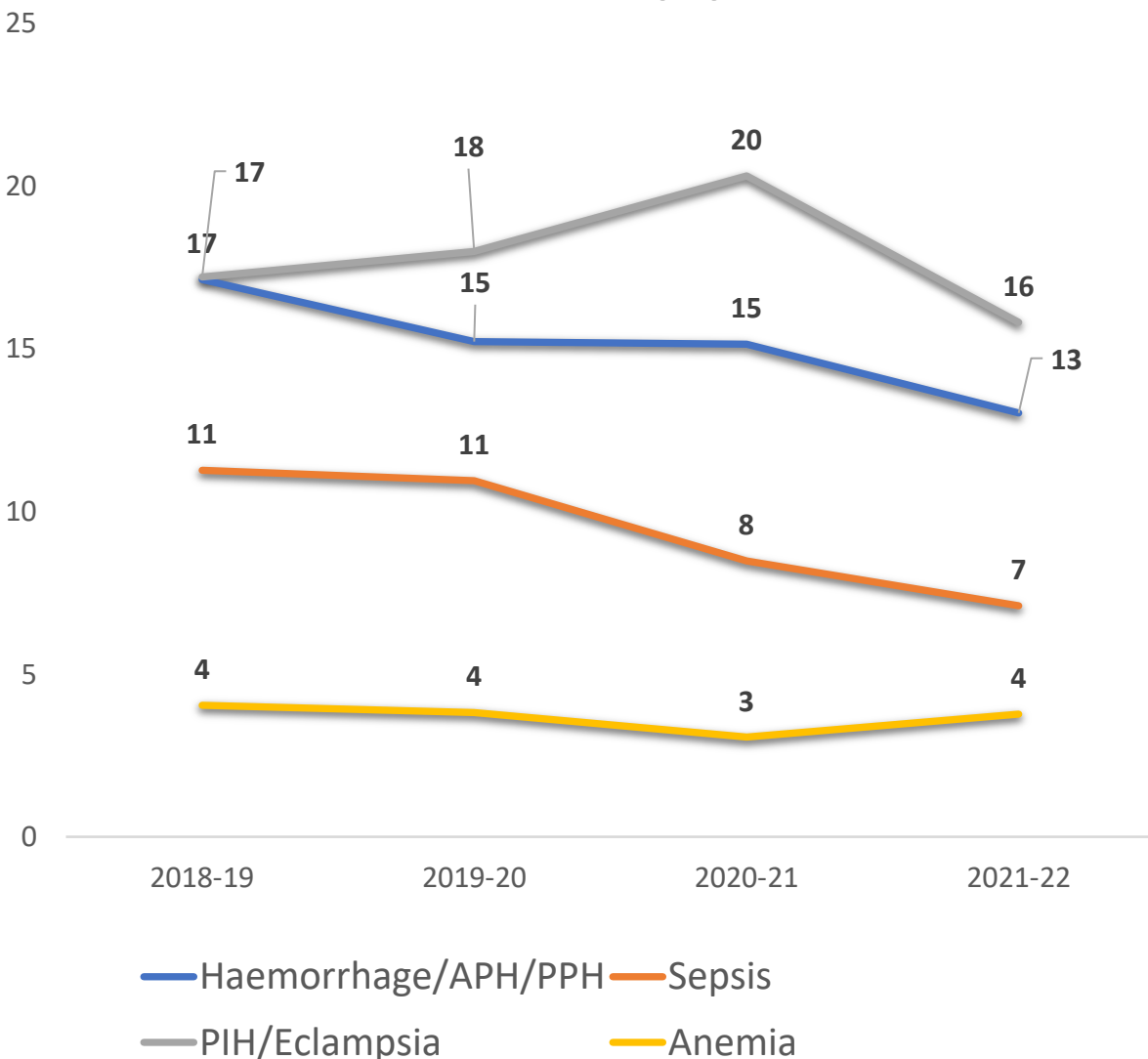


# Maternal death State Analysis -Year wise Cause of Death Trend (%)



# Maternal death State Analysis ( As per the trends of preventable causes of MD)

## Trend of preventable causes of Maternal deaths (%)

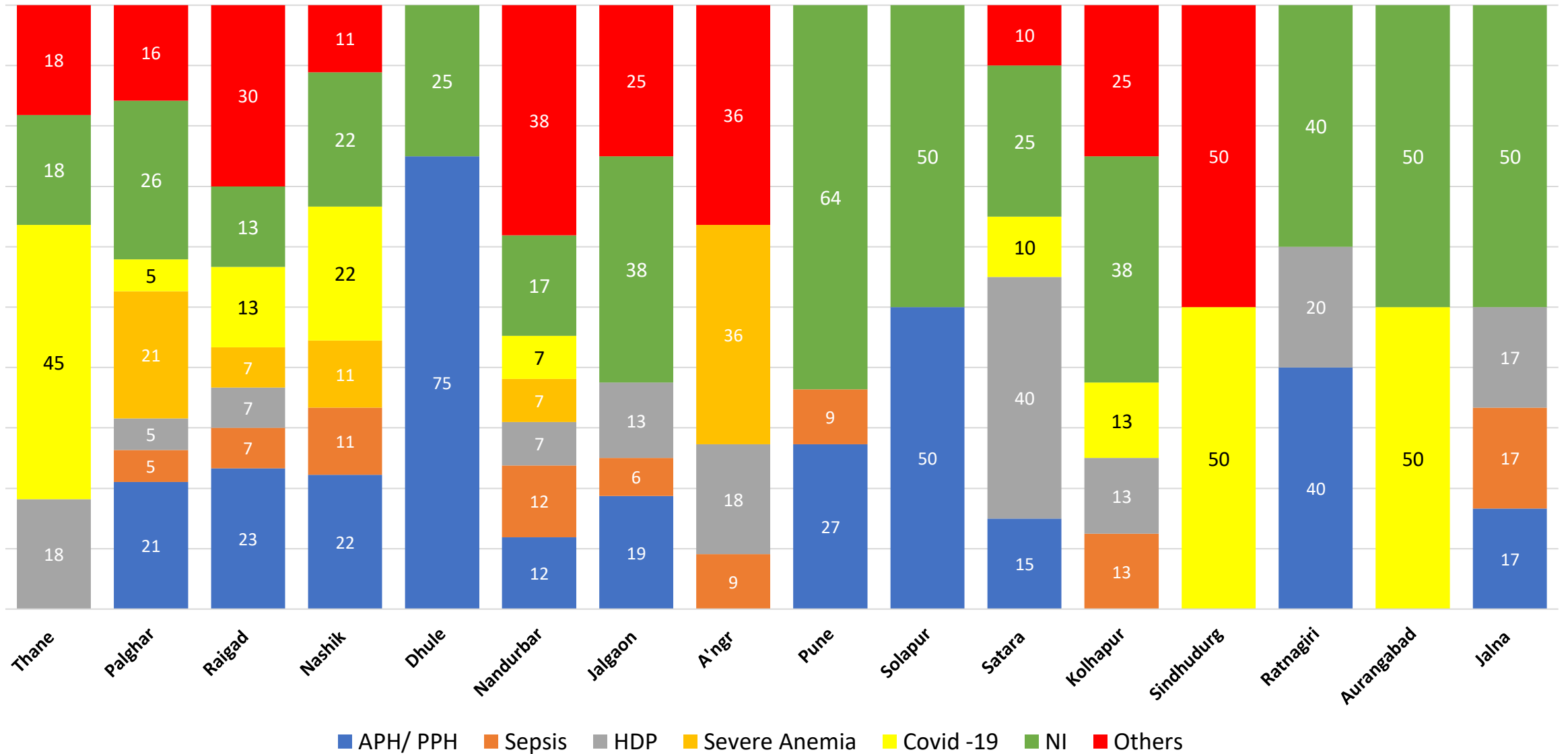


## Cause wise Maternal deaths

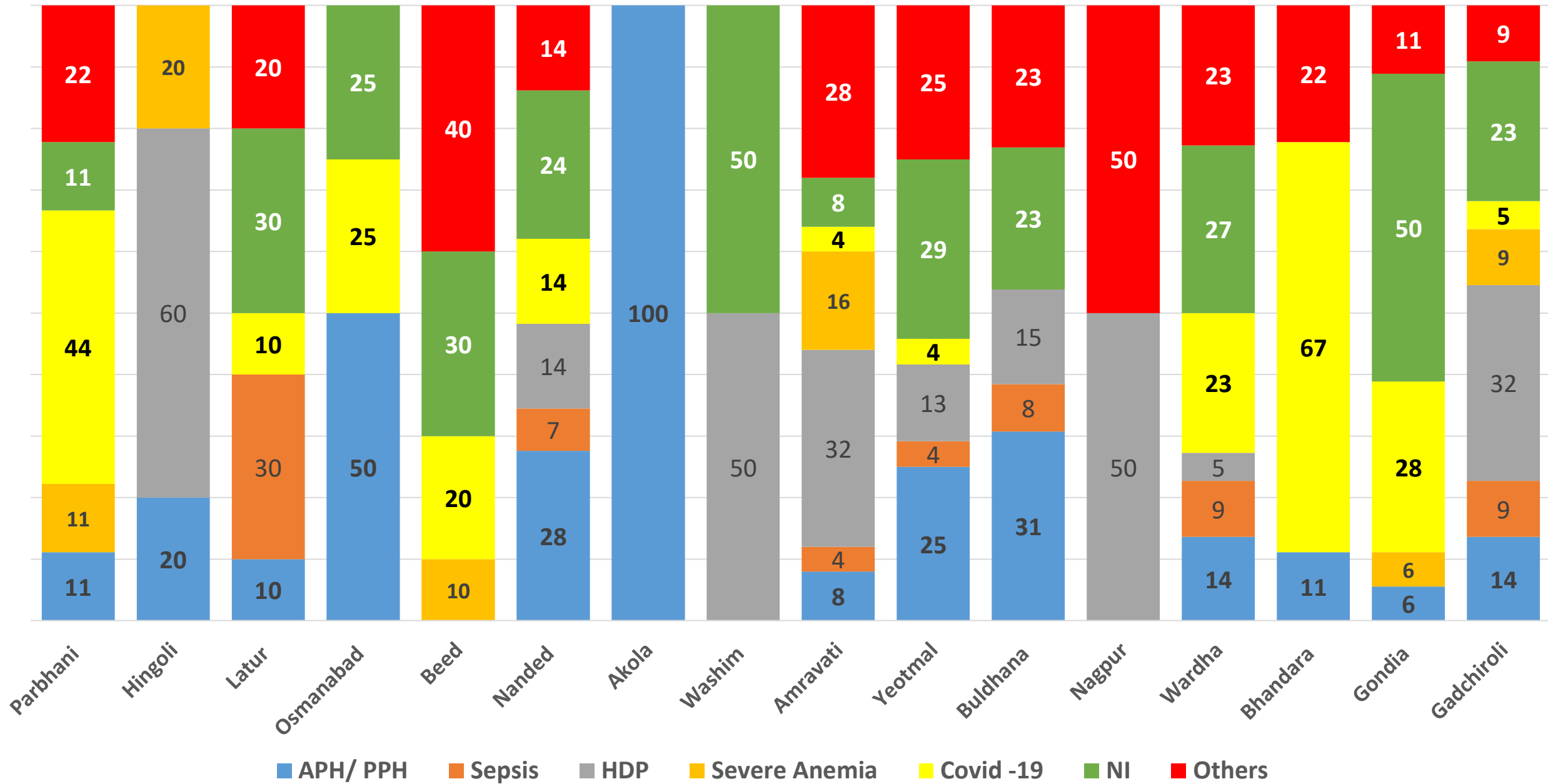
Maternal deaths resulting from obstetric complications during pregnancy, labour, and the puerperium, from interventions, omissions or incorrect treatment, or from a chain of events resulting from any of the above is called as Maternal Death by direct obstetric cause and greater number of maternal deaths were due to Direct Causes and all these deaths are preventable.

- Deaths due to haemorrhage/APH/PPH decreased from 17% to 13%.
- Death due to sepsis decreased from 11% to 7% .

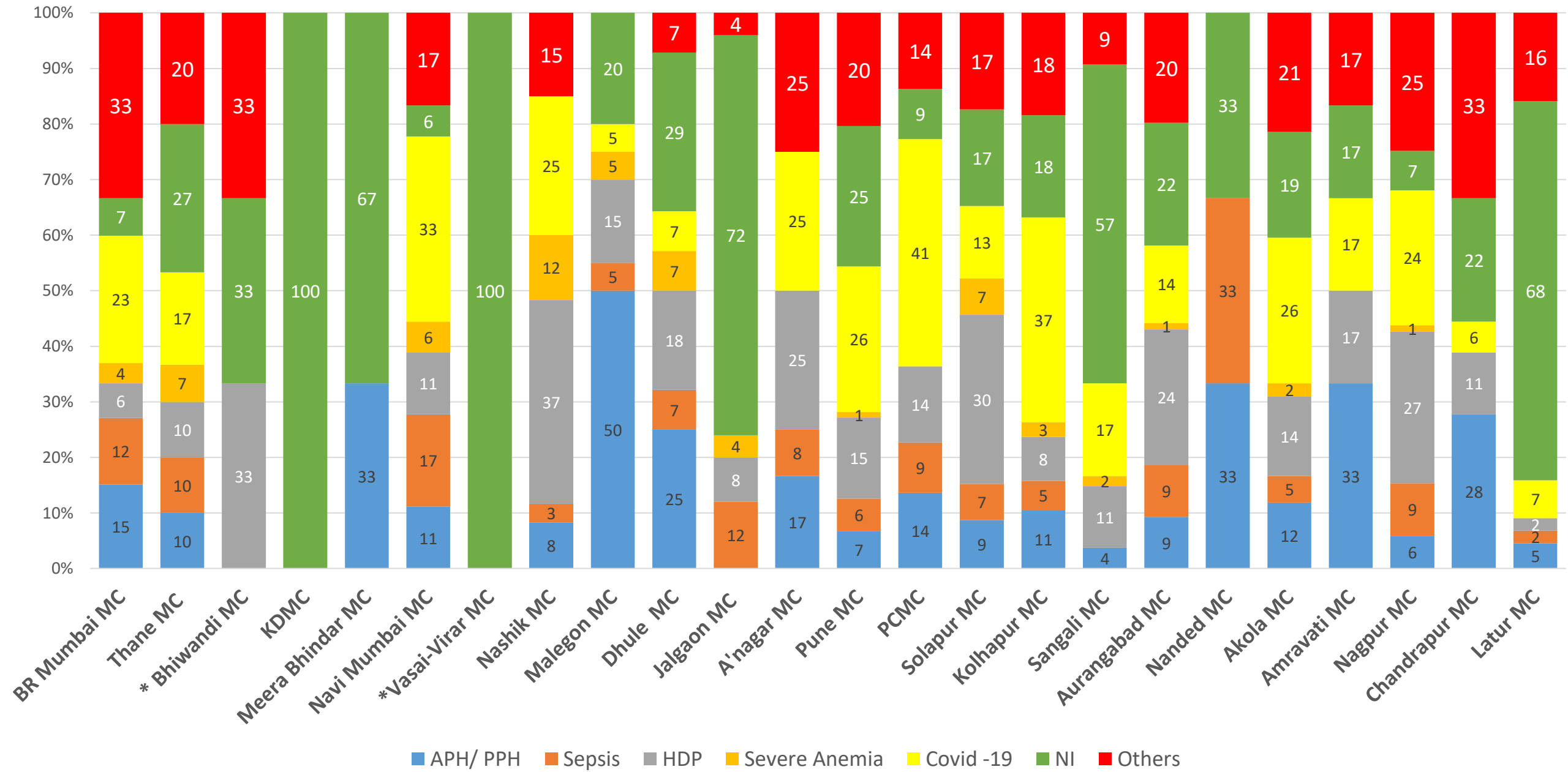
# Maternal death Cause wise and district wise ( As per place of death, 2021-22)(%)



# Maternal death Cause wise and district wise ( As per place of death, 2021-22) (%)



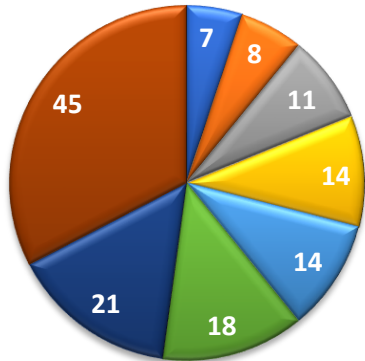
# Maternal deaths cause wise and Corporation wise ( As per place of death, 2021-22) (%)



# Maternal deaths due to PIH, Preclampsia, Eclampsia (HDP) ( State = 214 , April 21 to Feb 22 )

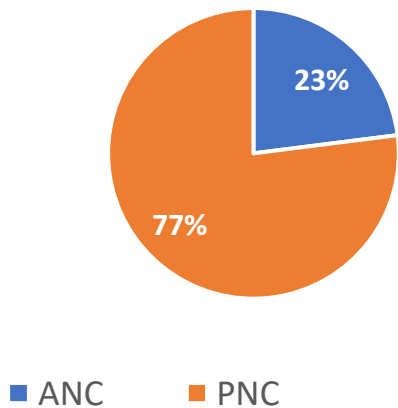
Maternal deaths (In numbers) due to PIH/Eclampsia/Preclampsia

- Satara      ■ Amravati      ■ BR Mumbai MC      ■ Pune MC
- Solapur MC      ■ Nashik MC      ■ Aurangabad MC      ■ Nagpur MC

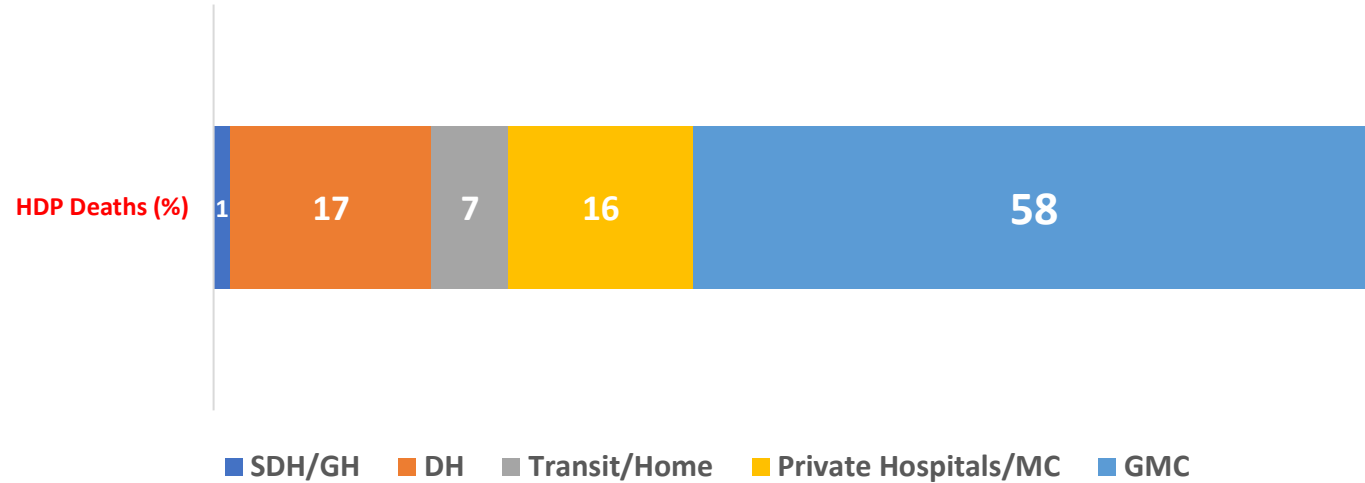


**67% of total maternal deaths due to HDP reported from 5 municipal corporations and 2 Districts**

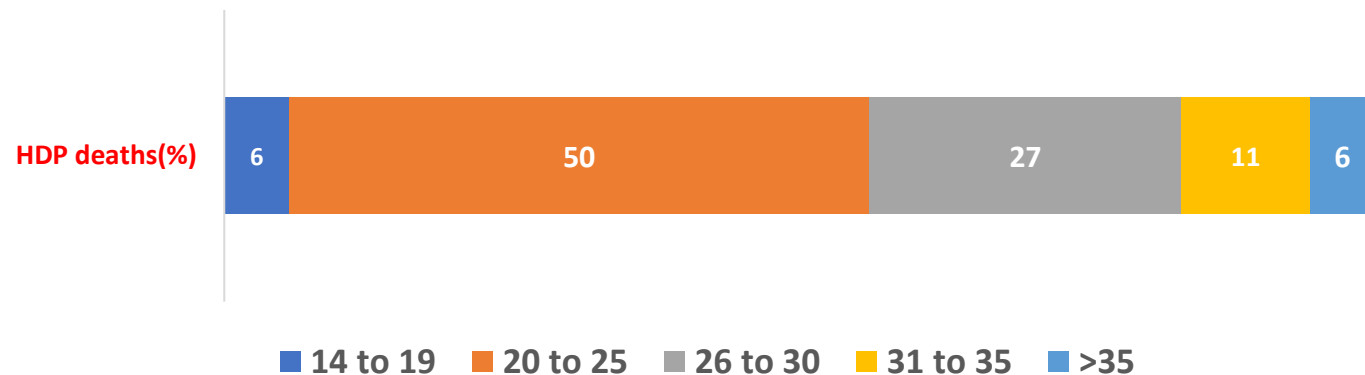
Maternal deaths due to HDP(%)



Place wise distribution of maternal death due HDP(PIH/Eclampsia/Preeclampsia)



Age wise distribution of maternal deaths due to Hypertensive disorder in pregnancy (PIH/Eclampsia/Preeclampsia)



# Maternal deaths due to Haemorrhage /APH/PPH ( State= 169 , April 21 to Feb 22 )

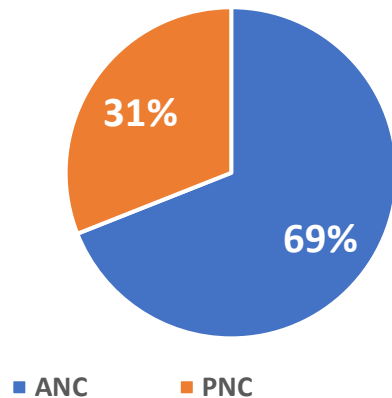
Maternal deaths due to Haemorrhage (in numbers)



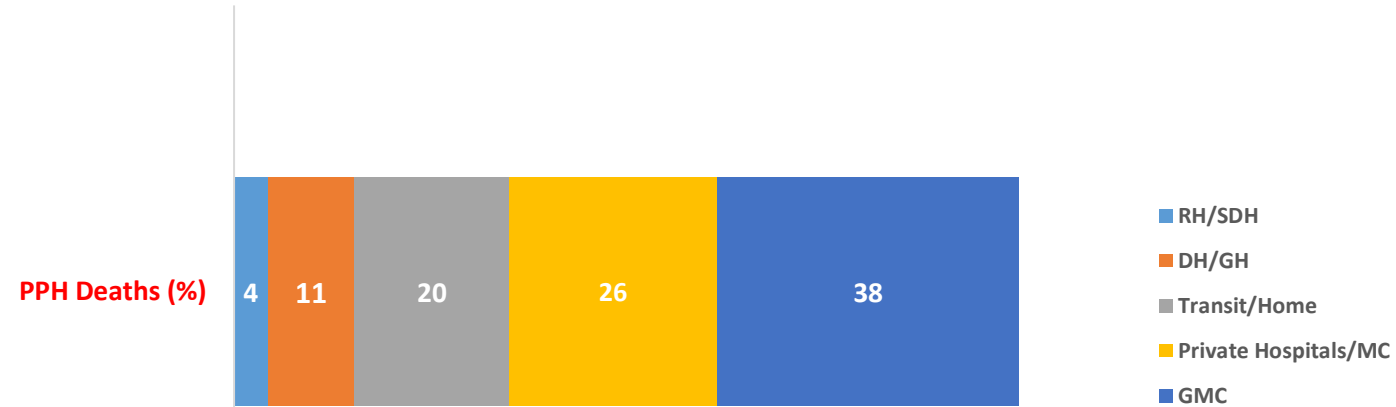
- Raigad
- Yeotmal
- Dhule MC
- Pune MC
- Nanded
- Malegon MC
- Aurangabad MC
- Nagpur MC
- BR Mumbai MC

**51% of total Maternal death due to Haemorrhage/APH/PPH reported from 6 Municipal Corporations and 3 districts .**

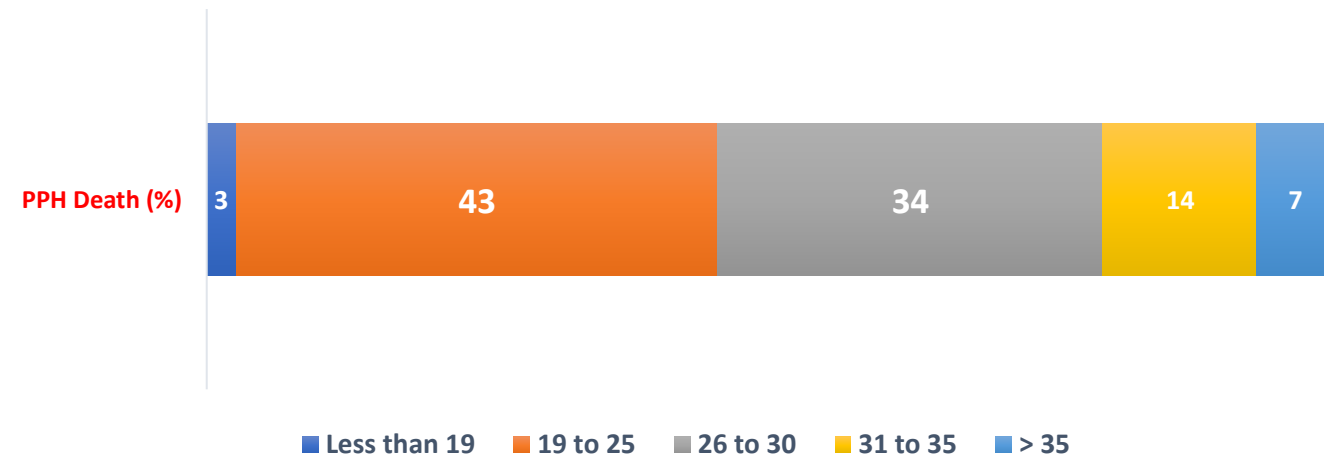
Deaths due to Haemorrhage/APH/PPH



Distribution of deaths as per place of deaths

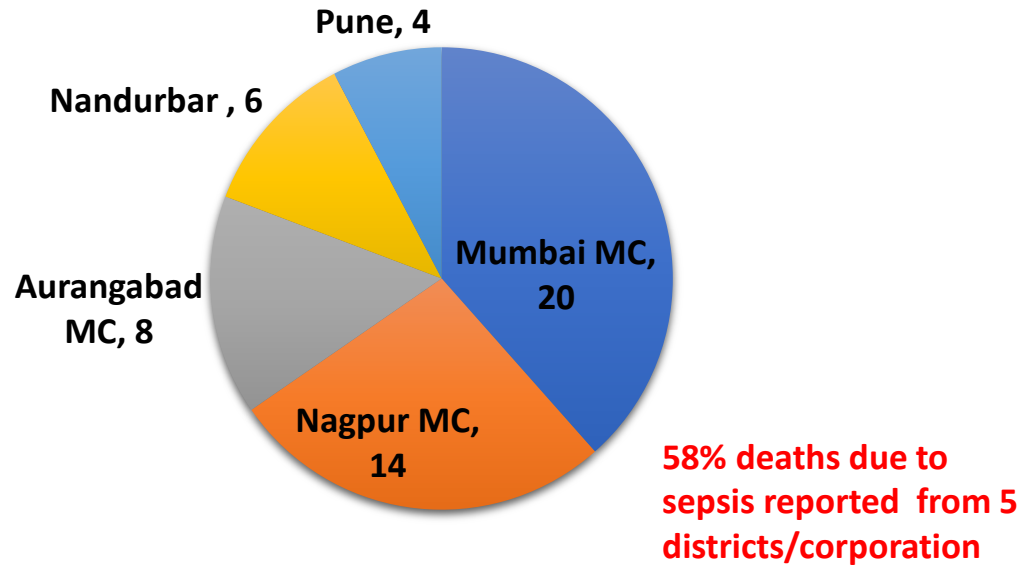


Age wise distribution of deaths (In %)

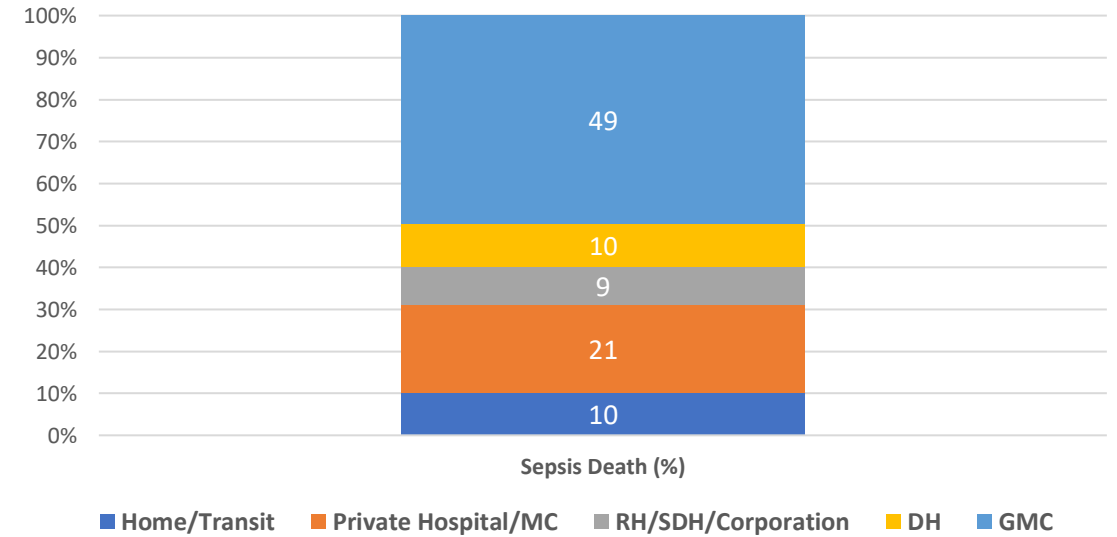


# Maternal deaths due Sepsis , State Total , State Total=89, April 21 to Feb 22

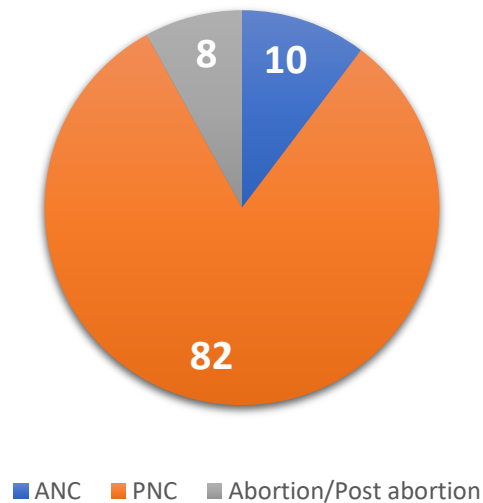
Maternal deaths due Sepsis(in numbers)



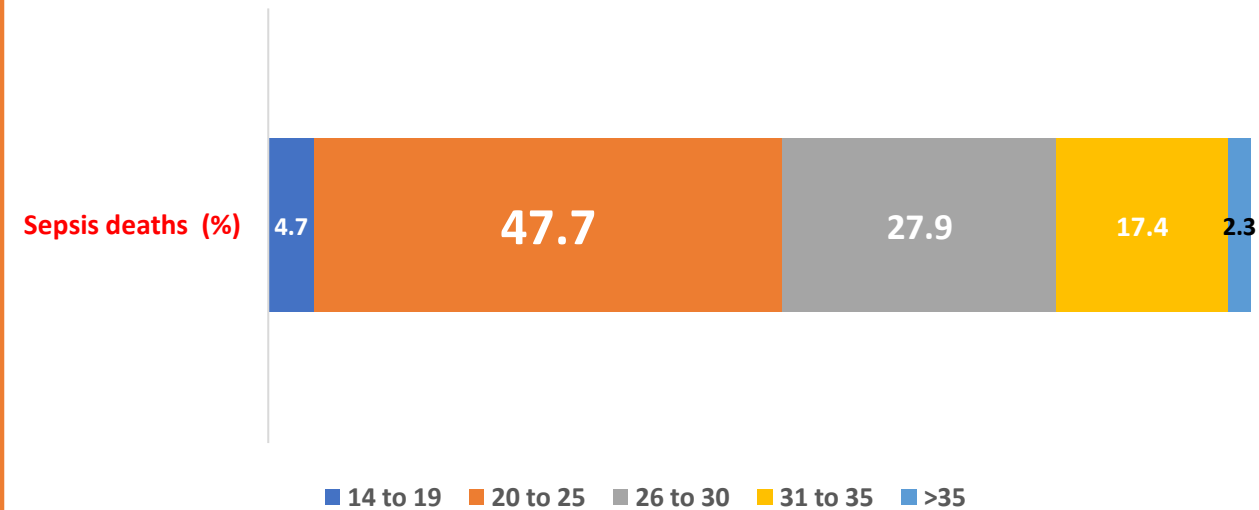
Place wise distribution of maternal death due to sepsis (In %)



Sepsis Deaths (%)

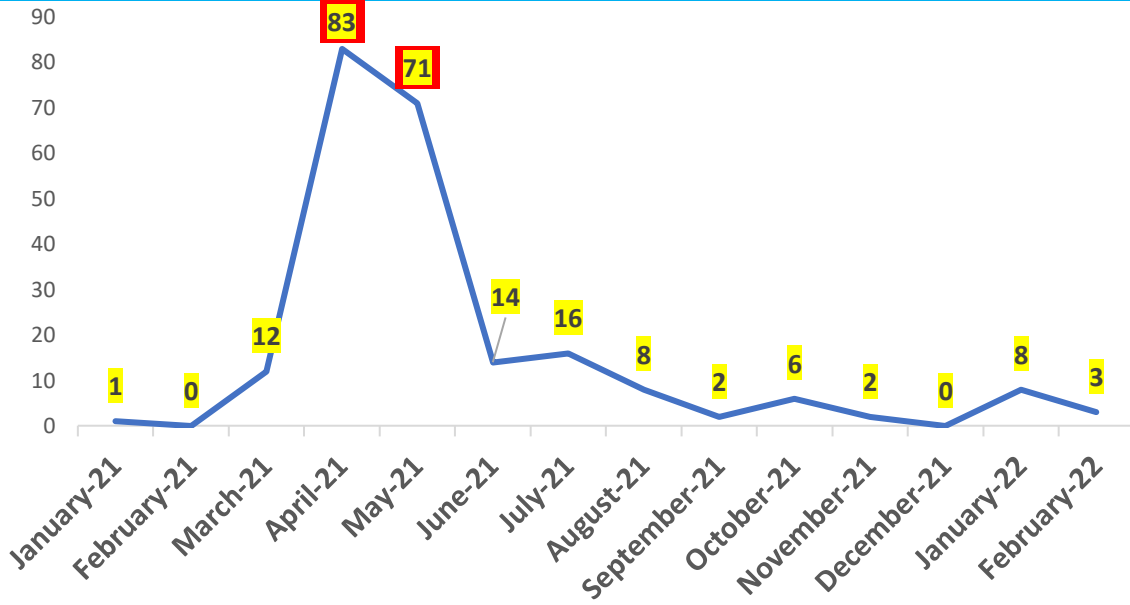


Age wise distribution of maternal deaths due to sepsis (In %)





# Maternal Death due to Covid-19 in Maharashtra ( State - 213, April 21 to Feb 22)



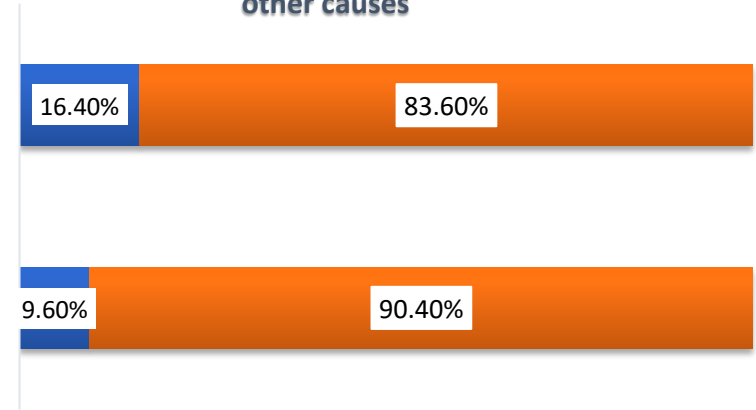
Comparison of maternal death due to Covid-19 with maternal death due other causes

2021-22(Upto Feb 22)

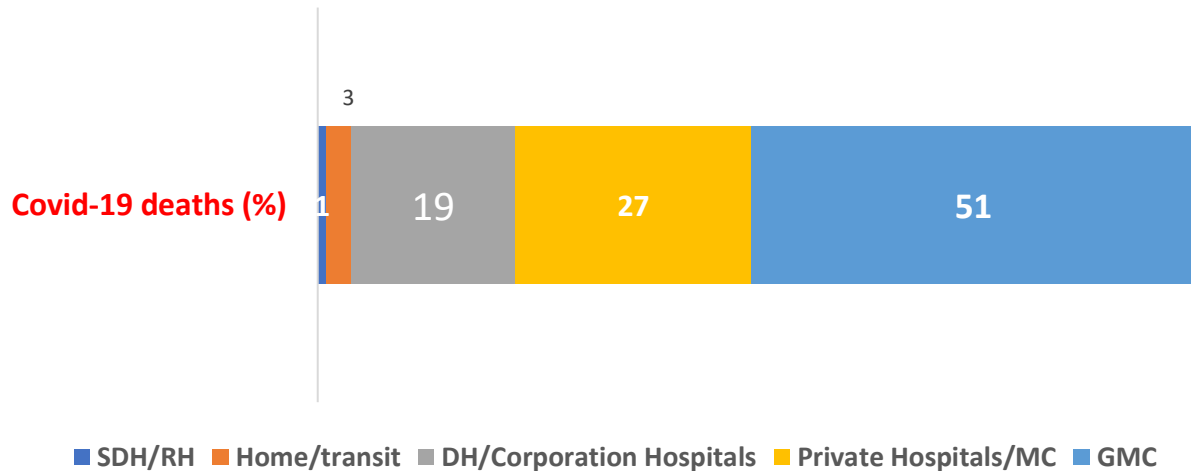
2020-21

103  
A,108

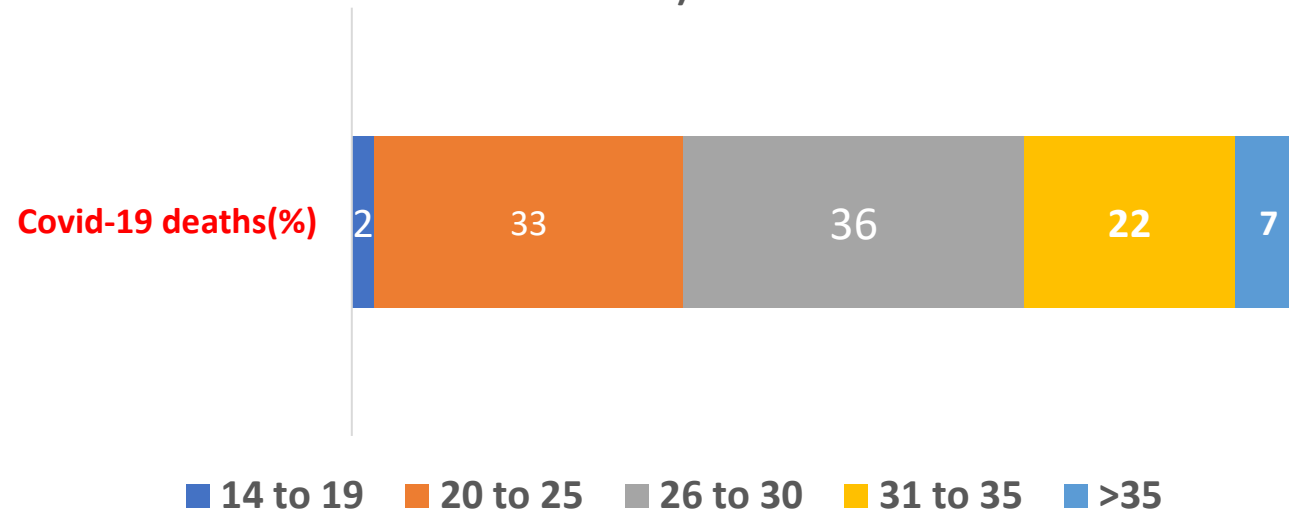
■ Death Due to Covid-19 ■ Death due to other causes



Place wise distribution of maternal death due Covid-19

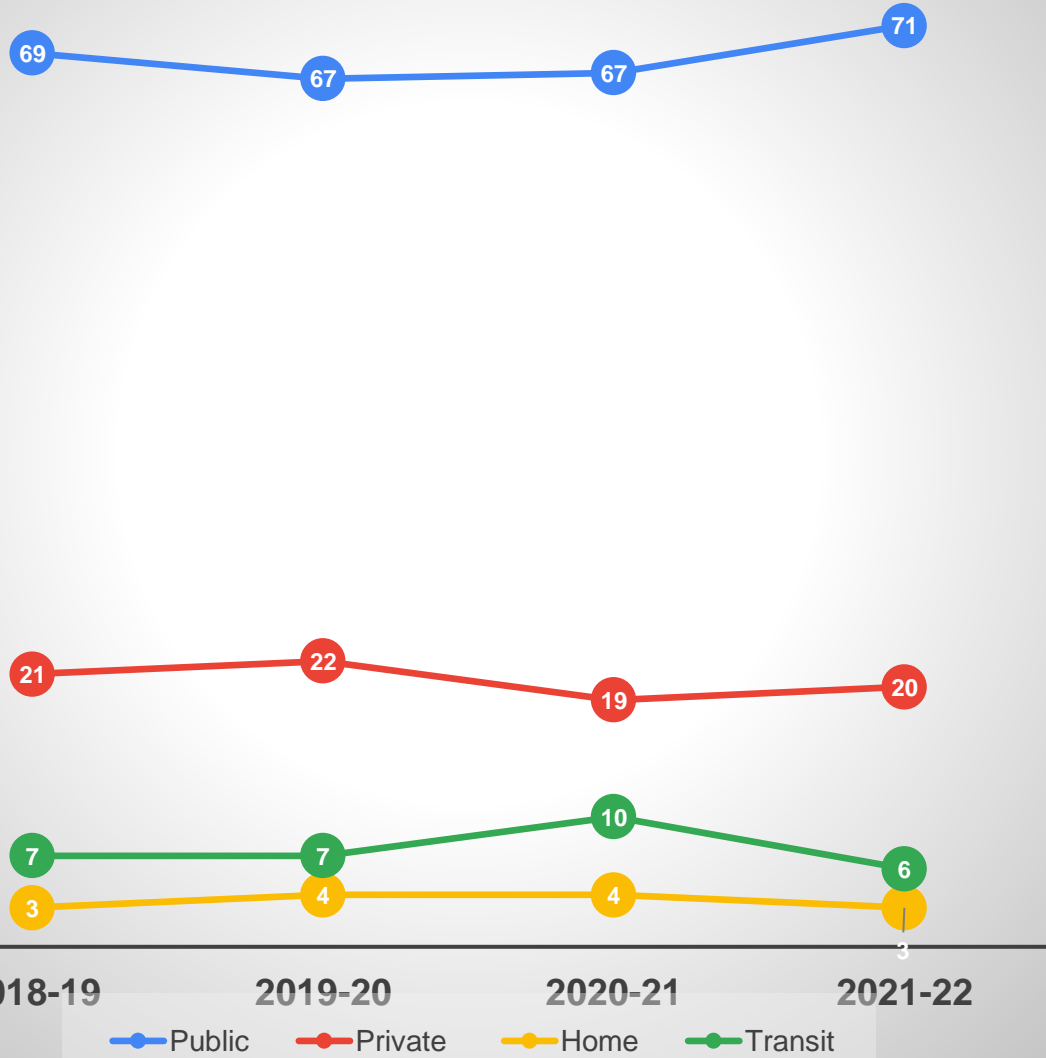


Age wise distribution of maternal deaths due to Covid-19 (In %)

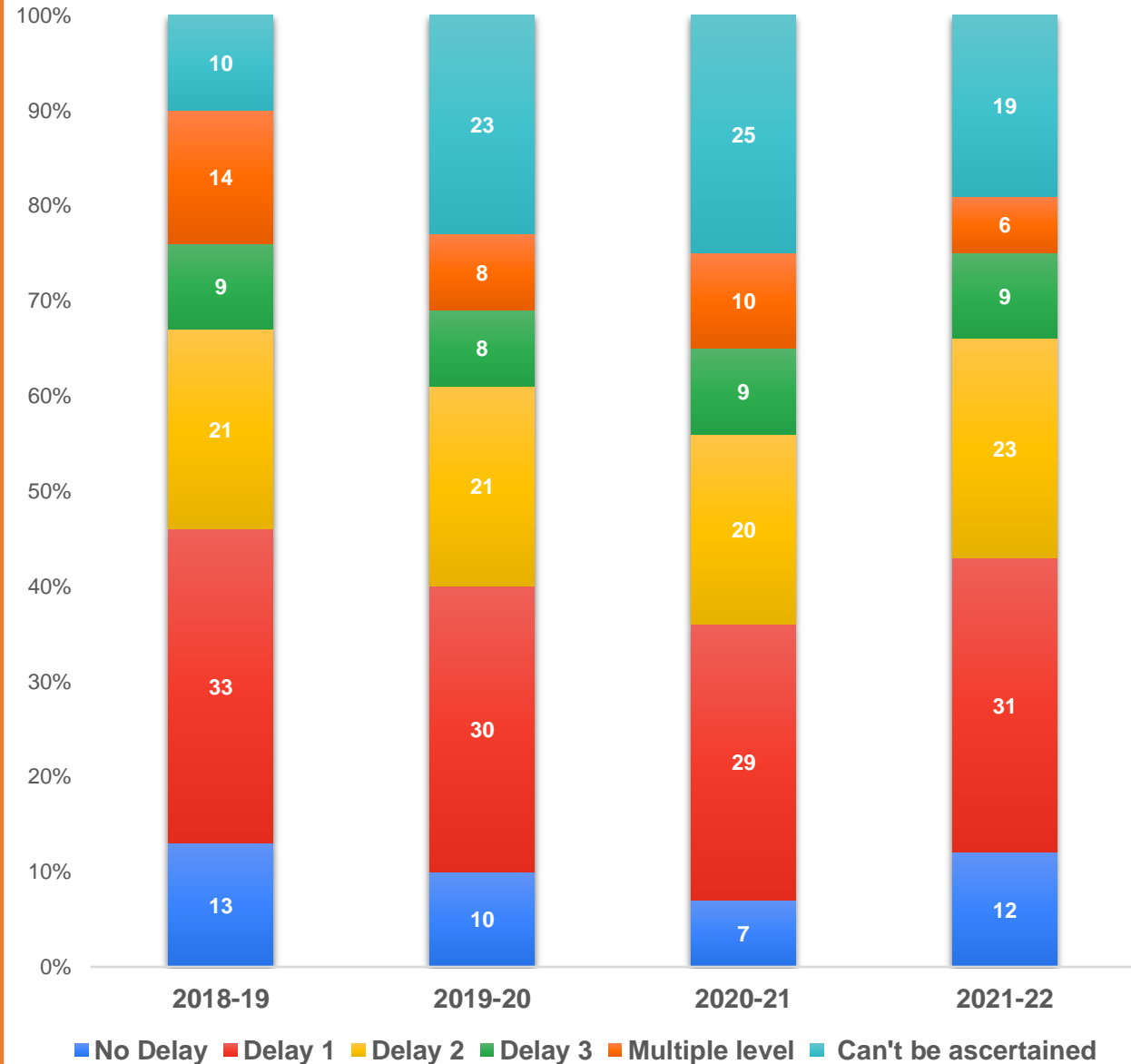


# Maternal death State Analysis ( As per place of death and Delay, 2021-22)

As per place of death ( In % )

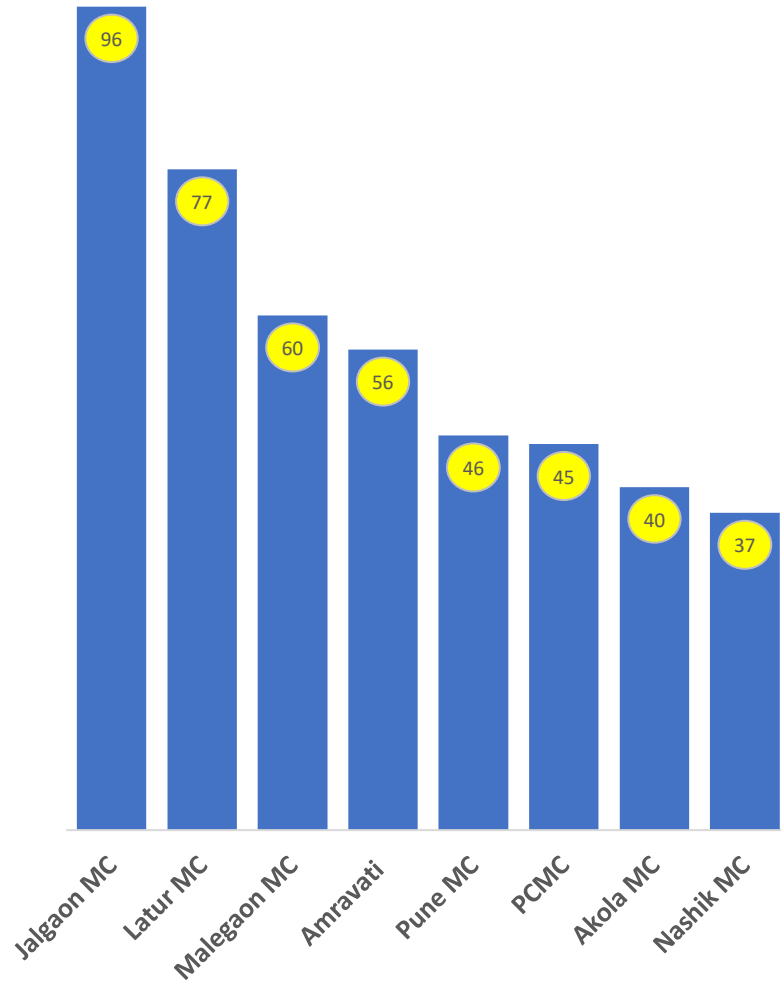


Level of Delay (In %)

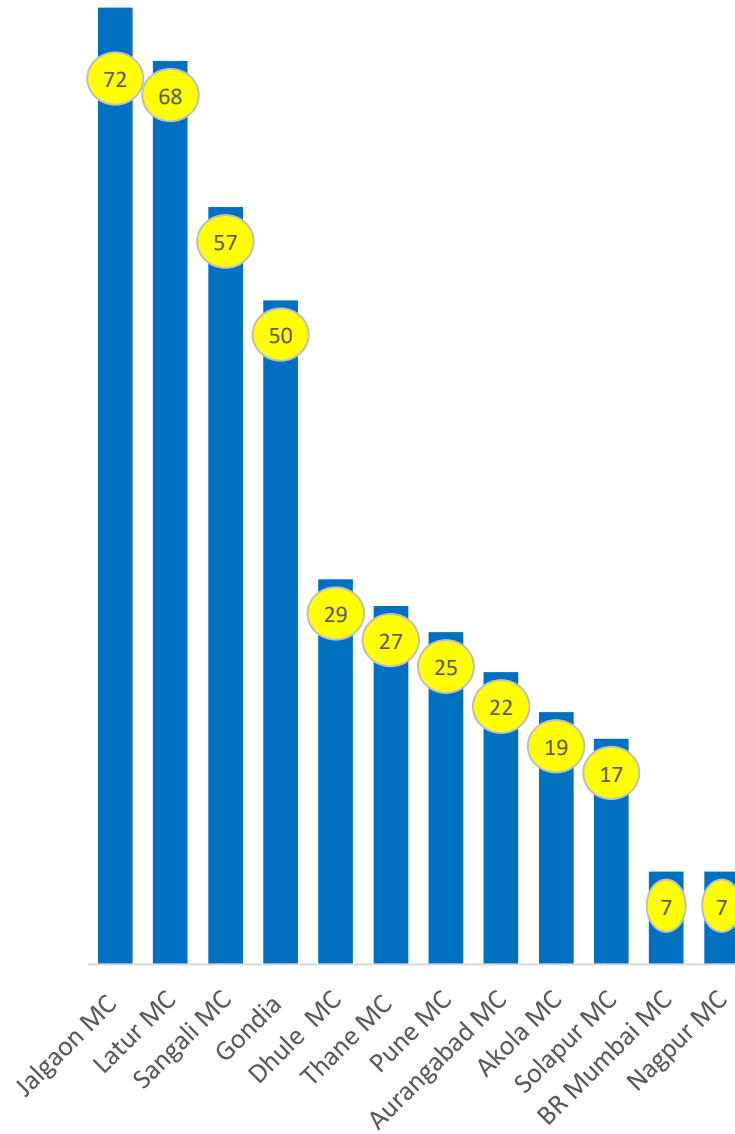


# Gaps identified in MDSR ( 2021-2022 )

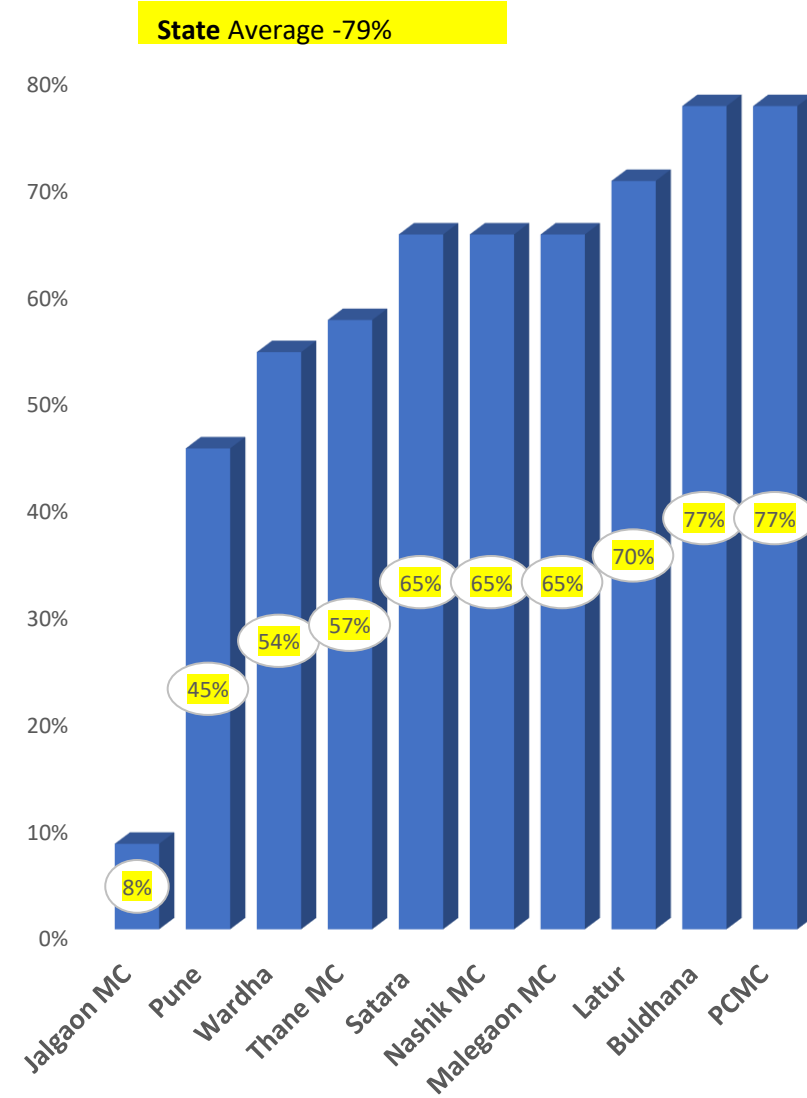
## Delay not ascertained (%)



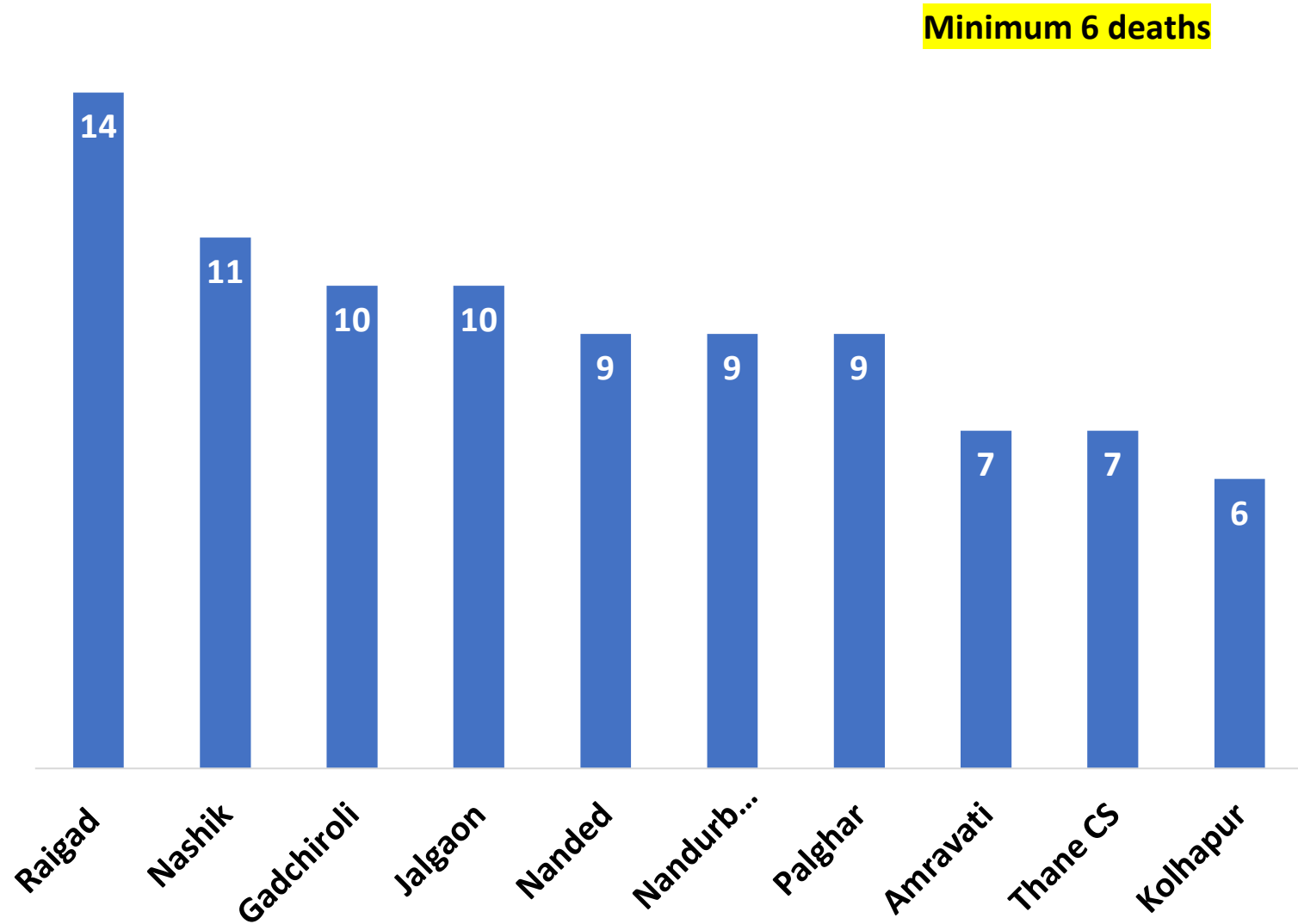
## Cause not indicated (%)



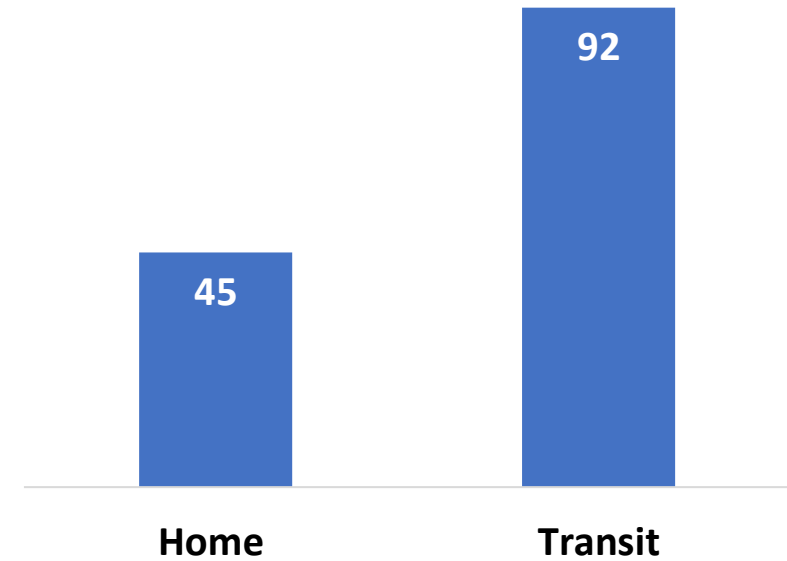
## Maternal death review (%) below State Average



# Districts with Higher Home/transit Deaths, 2021-22



## Maternal deaths in home and transit



- High home deaths occurred in Palghar (4), Nandurb... (4), Gadchiroli (5) and Kolhapur (4) districts.
- PPH was most common cause for maternal death in transit.