

Supplemental Information for:

Air quality, atmospheric variables and spread of COVID-19 in Delhi (India): An analysis

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Supplementary Table S1: Month when lockdown imposed by the countries.

Month when Lockdown Imposed by the countries		
January, 2020	March,2020	April,2020
Mongolia, China	India, Bangladesh, Afghanistan, Kuwait, Nepal, Vietnam, Bosnia, Uzbekistan, Sri Lanka, Kazakhstan, Chile, Bulgaria, Peru, Iran, Poland, Romania, Mexico, Israel, Lithuania, Nicosia, Czech, Slovakia, Hungary, France, Austria, Philippines, Belgium, Colombia, Ukraine, Japan, Switzerland, United Kingdom, Germany, Portugal	Indonesia, Uganda, Macedonia, Kosovo, Thailand, Serbia, Turkey, Singapore

Adapted from Rodríguez-Urrego and Rodríguez-Urrego, 2020.

Supplementary Table S2: Cities studied that reported air pollution reduction during COVID-19 related lockdown.

SL. No.	Authors	City studied
1	Navinya <i>et al.</i> , (2020)	Delhi, Ambala, Amritsar, Jaipur, Lucknow, Patna Jorapokhar, Kolkata, Ahmedabad, Dewas, Mumbai, Nagpur, Amaravati, Bangalore, Trivandrum, Chennai and Hyderabad (17 cities).
2	Jain and Sharma, (2020)	Delhi, Mumbai, Chennai, Kolkata, and Bangalore (5 city).
3	Kumar <i>et al.</i> , (2020)	Delhi, Chennai, Hyderabad, Kolkata, and Mumbai (5 city).
4	Kotnala <i>et al.</i> , (2020)	Delhi
5	Mahato <i>et al.</i> (2020)	Delhi
6	Gautam, 2020	India
7	Srivastava <i>et al.</i> , (2020)	Delhi, New Delhi
8	Beig <i>et al.</i> , (2020)	Delhi, Mumbai, Pune, Ahmedabad, Mumbai, Chennai.
9	Mor <i>et al.</i> , (2020)	Chandigarh
10	Sharma <i>et al.</i> , (2020)	Bhopal, Dewas, Jorapokhar, Patna, Gaya, Brajrajnagar, Kolkata, Faridabad, Amritsar, Jodhpur, Delhi, Agra, Kanpur, Varanasi, Amravati, Bengaluru, Thiruvananthapuram, Chennai in the south, as well as Ahmedabad, Mumbai, Nagpur, and Pune (22 cities).
11	Selvam <i>et al.</i> , (2020)	Surat, Ankleshwar, Vadodra, Ahmedabad, Gandhinagar, Jamnagar, Rajkot, Bhuj and Palanpur (9 cities of Gujarat).

12	Ranjan <i>et al.</i> , (2020)	Delhi, Kolkata, Bengaluru, and Mumbai, (also 10 coal mine areas).
13	Shehzad <i>et al.</i> , (2020)	Delhi and Mumbai.
14	Rodríguez-Urrego and Rodríguez-Urrego, (2020)	Delhi, (also 49 other capital cities of world).
15	Singh <i>et al.</i> , (2020)	Delhi and 4 regions (Central, North-West, South, and Indo- Gangetic Plain.
16	Aman <i>et al.</i> , (2020)	Ahmedabad
17	Babu <i>et al.</i> , (2020)	Delhi
18	Agarwal <i>et al.</i> , (2020)	Delhi, Lucknow, Kolkata, Mumbai, Chennai Jaipur, (also 6 cities of China).
19	Bera <i>et al.</i> , (2020)	Kolkata
20	Karuppasamy <i>et al.</i> , (2020)	Delhi, New Delhi, Thrissur, Lucknow, Hyderabad, Chandigarh, Bhopal, Nagpur, Ghaziabad, Hapur, Gandhinagar, Chennai, Nashik, Mysore, Visakhapatnam, Mumbai, Jaipur, Patna, Muzaffarnagar, Thiruvananthapuram, Bengaluru, Shillong, Kolkata (23 cities).
21	Dhaka <i>et al.</i> , (2020)	Delhi
22	Siddiqui <i>et al.</i> , (2020)	Delhi, Ahmedabad, Kolkata, Mumbai, Hyderabad, Chennai, Bengaluru and Pune.
23	Singh and Chauhan, (2020)	Delhi, Mumbai, Hyderabad, Kolkata, and Chennai.
24	Kumari and Toshniwal, (2020)	Delhi, Mumbai and Singrauli.
25	Kumar and Kumar, (2020)	Mumbai.
26	Sarkar <i>et al.</i> , (2020)	Kolkata and Howrah.
27	Lokhandwala and Gautam, (2020)	Ghaziabad.
28	Kumar, (2020)	New Delhi, Kolkata, Ahmedabad, Mumbai, Chennai, Hyderabad.
29	Mahato and Ghosh, (2020)	Delhi, and other 9 cities like Ghaziabad, Faridabad, Gurugram, Noida, Muzaffarnagar, Bulandshahr, Greater Noida, Jind and Bhiwadi).
30	Sharma <i>et al.</i> , (2020)	Ajmer, Alwar, Bhiwadi, Jaipur, Jodhpur, Kota, and Udaipur.
31	Reshmi <i>et al.</i> , (2020)	Kannur, Kerala.
32	Gautam <i>et al.</i> , (2020)	Delhi (A part of Delhi i.e. Delhi Technical University area, Okhla and Patparganj), Jind, Palwal Hisar, Agra, Kanpur, Noida.
33	Mitra <i>et al.</i> , (2020)	Kolkata.
34	Somani <i>et al.</i> , (2020)	Delhi (R.K. Puram), Mumbai, (Powai), Kolkata (Jadavpur) and Chennai (Manali).
35	Bedi <i>et al.</i> , (2020)	Delhi, Mumbai, Kolkata and Chennai.
36	Kumari <i>et al.</i> , (2020)	Delhi, Amritsar, Ludhiana, Patiala, Udaipur, Bhiwadi, Jaipur, Jodhpur, Gurugram, Jind, Faridabad, Rohtak, Guwahati, Bhopal, Ujjain, Agra, Ghaziabad, Noida, Bulandshahr, Kanpur, Lucknow, Greater Noida, Varanasi, Hyderabad, Tirupati, Visakhapatnam, Ahmedabad, Mumbai, Nagpur, Pune, Chennai, Thiruvananthapuram, Jorapokhar, Gaya, Patna, Howrah, Kolkata, Bengaluru, Kalaburagi (39 cities).

Supplementary Table S3: Spread of COVID-19 cases in India.

States and Union territories	Confirmed cases as on 19 June ,2020	% of Total	Case per million population*
Maharashtra	124331	32.23%	1106.40
Gujarat	26141	6.78%	432.51
Delhi	53116	13.77%	3163.94
Tamil Nadu (TN)	54449	14.11%	754.69
Rajasthan	14156	3.67%	206.51
Madhya Pradesh (MP)	11582	3.00%	159.47
Uttar Pradesh (UP)	15785	4.09%	79.00
Andhra P	7961	2.06%	160.58
WB	13090	3.39%	143.41
Punjab	3832	0.99%	138.12
Telangana	6526	1.69%	186.44
JK	5680	1.47%	452.90
Karnataka	8281	2.15%	135.54
Haryana	9743	2.53%	384.32
Bihar	7181	1.86%	68.98
Kerala	2912	0.75%	87.17
Odisha	4677	1.21%	111.43
Chandigarh	381	0.10%	360.98
Jharkhand	1965	0.51%	59.57
Tripura	1178	0.31%	320.64
Uttarakhand	2177	0.56%	215.84
Assam	4904	1.27%	157.15
HP	619	0.16%	90.17
Chhattisgarh	2028	0.53%	79.39
Ladakh	744	0.19%	2715.33
Andaman & Nicobar (A&N)	45	0.01%	118.24
Meghalaya	44	0.01%	14.83
Puducherry	286	0.07%	229.18
Goa	725	0.19%	497.07
Manipur	681	0.18%	238.46
DNH	62	0.02%	180.39
Mizoram	130	0.03%	118.48
AP	103	0.03%	74.44
Nagaland	198	0.05%	100.00
Sikkim	70	0.02%	116.67
Total	385783	100.00%	

Source: Compiled by author from different respective state's website.

*As per 2011 population census of India.

Supplementary Figure Caption

Fig. S1: Location of Delhi, India.

