

NOVEL CORONAVIRUS DISEASE 2019 (COVID-19): STRATEGIES AND STATISTICS OF SIKKIM STATE-INDIA UP TO 1/04/2020

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Submitted on: 02.04.2020;

Revised on: 10.04.2020;

Accepted on: 12.04.2020

ABSTRACT:

Objective: The objective of this present short communication work was to critically analysis and systematically collection of the data during this pandemic situation, Government strategies and their implementation for fighting against the Pandemic viruses-Novel COVID-19 within the Sikkim state and its border areas. **Method:** The State Health Department has taken crucial steps to maintain the safety of the public heath throughout the state. Frontline healthcare workers such as doctors, nurses, paramedical (pharmacists), police forces, health official, GMC, NGO, urban and rural local bodies, etc are working 24/7 without thinking about their health. Sikkim has four major districts- East (Gangtok), West (Geyzing), North (Mangan) and South (Namchi). There are three main check posts-Rangpo, Melli and Rammam and international pass (Nathula pass to China) and Chiwabhanjang to Nepal. Data collected by the various agencies such as Government and the independent media houses were highlighted. Here we have highlighted the data based on three districts of Sikkim with quarantine history considering the rural and urban category wises with the factors such as home and self quarantine; facilitated, completed, etc of the public within the state. **Result & Conclusion:** Government as well as independent media houses has collected great amount of data and estimated about 5,98,751 persons were screened as on 28/03/2020 with infrared thermometer in all the above check posts and the passes including International and Inter-state borders and still counting is going on. These statistics are first of its kind for the communication and to keep the scientific evidence for future knowledge.

KEY WORDS: COVID-19; Coronaviruses; Government of Sikkim; Quarantine; Rural and Urban Areas; Health Department.

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INTRODUCTION:

COVID-19 was first identified in Wuhan, Hubei Province, China in December 2019, due to infections with the 2019 novel coronavirus (SARS-CoV-2). It has already been spread to more than 55 countries by 2 March 2020, infected more than 85000 people and caused approximately 3000 deaths ^[11]. This has become a global problem because of the vigorous outbreak of COVID-19. Further management and control of this global threat inevitably depends on the preparedness and precise future risk evaluation, particularly in countries where new cases have been identified ^[2]. Till now dated: 29 March 2020, Sikkim being a 22nd State of India (Fig:1) has not recorded any new cases either in government as well as in private hospitals and clinics. With the total area of 7096 sq. km, population: 6.1 lakhs (Census: 2011) and shared the border with China in the North (Nathula Pass), Sikkim is geographically vulnerable to the present situation. As per the Government official notification dated:23/03/2020 Order No. 1780/DC that from 25th March 2020, all the sikkimense people are doing home quarantine and movement of the public on the street has significantly reduced already. Further noticed No. 1783/DC (E) 2020 prohibitory order extended up to 15 April 2020.



Fig1: Sikkim map in India, bordered by China in North, Source; http://aldertoursntravels.com/



Fig2: Health officials Screening for COVID-19 at major check post of Sikkim-Rangpo Check post; Source: sikkimexpress.com

MATERIAL AND METHOD:

The government of Sikkim is doing their best to fight against Pandemic COVID-19 by providing the top most precautionary facilities to its public. During the crises hours, Health department official has addressing the general public regarding the precaution and prevention measures tips and the global cases data of COVID-19^[3]. Implementing the strict rules for the immigrant from other countries and the states at three state's check posts (fig: 2) such as Rangpo, Melli and Rammam including the International pass like Nathula Pass and points-Utteray and Reshi. There are four major districts of Sikkim; they are East-Gangtok (Capital), West District (Geyzing) and South District (Namchi) and North District (Mangan) with the population density, 2.84 lakhs, 1.36 lakhs, 1.47 lakhs and 43,709 (data given as per the 2011 census). The quarantine data notified by Addl. DC/East for East dated: 1/04/2020, data notified by SDM, (HQ) West Sikkim for West, dated: 31/03/2020 and data notified by Government of Sikkim (official facebook page) for South Sikkim, dated: 26/03/2020.

The Sikkim government under the guidance of Hon'ble chief Minister-Shri P.S Golay has done the tremendous work from their side by distributing free essential commodities, groceries and monetary incentives (Rs-3000, Rs-2000 & ex-gratia of Rs-1000 in two instalments to the poor(BPL)/laboursincluding Pharma & Temi Tea Garden, BOC workers & state's widow , Rs-12 in additional wages to MGNREGA workers, Rs-1500 in three instalments to Self Help Group (from 1st April 2020) and Rs-5000 for the students those are stranded outside the state),

orphanages and old homes, doing Hospital and clinical activities, providing LPG in a easy way, emergencies services, surgical masks, hand sanitizer, creating awareness among the public regarding health issues, implementing the IPC144 and provided the contact nos. of the concerned high level officers, drivers details for groceries supply to the public and the police personnel for 24/7 to maintain the safety among the public. The Hon'ble Governor of the state: Shri Ganga Prasad Chaurasia and The Hob'le Chief Minister: Shri P.S Tamang (Goley) pleased with the public to be alert and advice to take preventive measures for the COVID-19 and supported the Hon'ble P.M's statement for 21 days lockdown^[4]. The Hon'ble Health Minister: Dr. M.K Sharma has monitored the situation personally by visiting the Govt. Hospital and private clinics and taking the inquiry about the essential health commodities to struggle against COVID-19. The Chief Secretary, Government of Sikkim: Shri S.C Gupta and The Director General-cum-Secretary, Health Department: Dr. Pempa T. Bhutia regular visits at the Rangpo check post which is a major check post of the state and briefing about Novel COVID-19 related issues and provided the emergency helpline number (104) on the government website that operates 24/7 ^[5-6]. During this Pandemic crisis, under the supervision and direction of Hon'ble CM has developed the online portal for donation into the Chief Minister Disaster Relief Fund (CMDRF) account on 27/03/2020^[7] where including State Governor, State only MP, Govt. Officers, private owners, local contractors and public have contributed generously.

The results: Collected date are summarized in the table No: 1, 2, 3, 4 and 5.

Table1: Quarantine data for East Sikkim (Rural and Urban areas) as on 1/042020: With four quarantinefacilities.

Sl. No.	Category	No. of Record		
		Rural	Urban	Total
А	Self Quarantine	1176	1062	2238
В	Home Quarantine	88	362	450
С	Facilities Quarantine	10(at Rangpo Facilities +55 (at SICUN)	Nil	65
D	Triage Facilities	04	02	06
Е	Home Quarantine Completed	04	06	10
F	Isolation	Nil	Nil	Nil
		Total		2769

Sl. No.	Place/locality(Rural Area)	No. of Home Quarantine
1.	District Hospital Geyzing	188
2.	Yaksam,PHC	45
3.	Rinchenpong,PHC	102
4.	Sombaria,PHC	158
5.	Dentam,PHC	206
6.	Mangalbaria,PHC	72
7.	Tashiding, PHC	56
8.	Nayabazar,PHC	22
9.	Soreng, PHC	167
	Total	1016

Table2: Quarantine data for West Sikkim (Rural Area) as on 30/03/2020: With four quarantine facilities.

Table3: Quarantine data for the South Sikkim (Rural Area) as on 31/03/2020:

Sl. No.	Category(Rural Area)	No. of Record	
1.	No. of persons on self Quarantine	767	
2.	No. of Persons on Home based Quarantine	14	
3.	No. of Persons Completed 14 Days Home based Quarantine	41	
4.	No. of Persons at facility Quarantine	22	
5.	SIRD Quarantine	07	
6.	Isolation	Nil	
	Total	851	

Table4: Logistic supplies as on 28/03/2020: Source: CMS

Sl.No.	PPE	N95 Masks	Triple Layer	VTM kit	Hand Sanitizer	Dettol	Gloves
			Masks			Sanitizers	
1.	1380	2873	96100	400	3000(500ml)	2000	5000
					2000(100ml)		
					3500(300ml)		

Place/Isolation	No. of Bedded	No. of Patient Admitted	No. of Patient Discharged
STNM, Gangtok	166	Nil	Nil
CRH, Tadong	20	Nil	Nil
Ayus Hospital, Geyzing	20	05	Nil
Army Hospital, Libing	41	Nil	Nil
Place/Quarantine			
SIRD, Karfetar	20	07	Nil
Mining Mine & Geology, Rangpo	25	10	Nil
Power Guest House, Nayabazar	02	Nil	Nil
New Tourist Quest House, Rangpo	16	06	1
Tashiding, Yatri Niwas	10	Nil	Nil
Dentam Forest Guest House	05	Nil	Nil
Aden Forest Guest House, Sombaria	11	Nil	Nil
Kyongsa Girls House, Gaeyzing	05	Nil	Nil
SICUN, Assam Linzey	48	58	Nil
ICU, STNM hospital	08	Nil	Nil

Table5: Isolation and quarantine facilities within the state as on 1/04/2020.

Table6: Suspicion Samples consign to various Testing Labs (NBMCH, WB & Guwahati, Assam) till1/04/2020.

Sl.No.	Total No. of Sample Consign	Tested Negative	Tested Positive
1.	26	26	Nil

CONCLUSION:

The data that are mentioned above will definitely increase if we will not follow strict preventative measures recommended by the World Health Organization (WHO) from our side and here all the public are well cooperative towards the Government's decision. With a courageous step of the state Government towards the mandatory quarantine of the people for 21 days lockdown within the state. Sikkim records zero COVID-19 positive cases. These statistics are first of its kind for the communication and to keep the scientific evidence for future knowledge.

ACKNOWLEDGEMENTS:

The authors would like to thank the World Health Organization, Government of Sikkim, Government of Sikkim-Health Department, and entire Sikkim Digital Press Media and whole frontline health care workers, Nurses, Paramedical (Pharmacists), Police, NOGs, Governmental and Non-Governmental Local bodies for providing selfless services, communicating or updating online up to date information on Novel COVID-19 outbreak within the State-Sikkim.

ABBREVIATION:

- 1. COVID-19: Novel Coronaviruses
- 2. GMC: Gangtok Municipal cooperation
- 3. NGO: Non-Government Organization
- 4. SARS-CoV-2: Severe Acute Respiratory Syndrome Coronavirus-2
- 5. DC: District Collector
- 6. ISDP: Investigation Supervisors Development Program
- 7. IPC: Indian Panel Code

- 8. SICUN: Sikkim Cooperative Union
- 9. CMS: Chief Minister of Sikkim
- 10. VTM: Viral-Transport Medium
- 11. SIRD: State Institute of Rural Development
- 12. PPE: Personal Protective Equipment
- 13. BOC: Building and other Construction Workers Welfare Board
- 14. NBMCH: North Bengal Medical College and Hospital

REFERENCES:

- 1. World Health Organization (2020) WHO Coronavirus disease (COVID-2019) situation reports. Published on 2nd March 2020.
- 2. Jung SM, et al. (2020) Real-time estimation of the risk of death from novel coronavirus

(COVID-19) infection: J Clin Med 9(2): 523.

- Government of Sikkim official website, [Online], Available; <u>https://sikkim.gov.in</u> [Accessed on 22 March 2020].
- The voice of Sikkim official website, [Online], Available; <u>http://voiceofsikkim.com</u> [Accessed on 24 March 2020].
- Government of Sikkim official website, [Online], Aavilable; <u>https://sikkim.gov.in</u> [Accessed on 27 March 2020].
- Government of Sikkim official website, [Online], Available; <u>https://sikkim.gov.in</u> [Accessed on 29 March 2020].
- Government of Sikkim official website, [Online], Available; <u>https://sikkim.gov.in</u> [Accessed on 1 April 2020].

CONFLICT OF INTEREST REPORTED: NIL ;

SOURCE OF FUNDING: NONE REPORTED