



Editorial

Overview of novel coronavirus in Punjab

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From December 2019 Covid -19¹ has been spreading throughout the world wide, reached in Punjab² by travelling of people from internationally to national site on 9 March 2020 as first positive report with initial symptoms. The effected patient has observed with high fever, cough, and difficulty breathing (severe cases) symptoms.² The data has been obtained from the Covid -19 Punjab website. More than 12 districts have been affected by this novel corona virus represent by pie graph as Figure 2. Punjab government is doing many efforts to tackle with this condition.

1. Methods for Prevention Suggested by W.H.O

Frequently washing your hands with soap water or using alcohol-based sanitizer rub kills viruses that might be on your hands. Maintaining the social distancing with person who is coughing or sneezing. The minimum distance should be least 1 meter (3 feet), this will prevent the entrance of virus via small liquid droplets from their nose or mouth. Medial help id required if the persons feel fever, cough and difficulty breathing. Reduction in Un-necessary movement confirmed decreases the chances of contact with infected person.³ Staying at home is a best method to prevention. Do the five stop the spread of corona virus as shown in Figure 1.

2. Specific Challenges

At present, limited specific data are available on the clinical characteristics and natural course of critically ill patients with COVID-19.⁴ The limited number of ventilators are available in the hospital.⁵ If the numbers of patient is increased in upcoming days, then it's very difficult to provide the ventilators to each and every one. People are not following properly the rules given by W.H.O, it's necessary to obey the rules of W.H.O to control the covid-19.

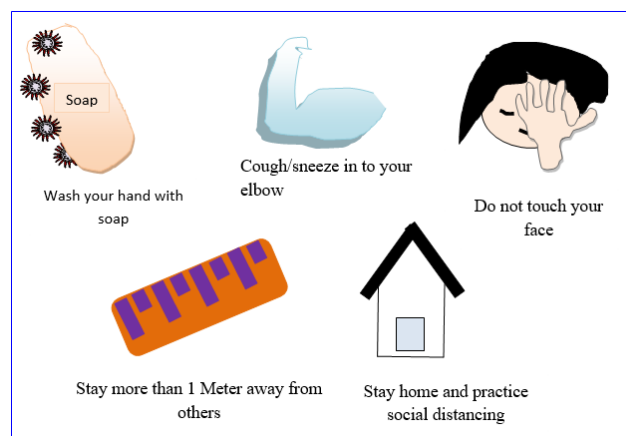


Fig. 1: Methods for prevention suggested by W.H.O

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Table 1: Ongoing vaccines against covid-19

Vaccines name	Company/research group (Ref-6)
Fusogenix DNA vaccine	Entos Pharmaceuticals
ChAdOx1 nCoV-19	University of Oxford
Gimsilumab	Roivant Sciences
AdCOVID	Altimmune
TJM2 by I	Mab Biopharma
Coronavirus vaccine	Medicago
AT-100 (rhSP-D)	Airway Therapeutics
TZLS-501	Tiziana Life Sciences
OYA1	OyaGen
BPI-002	Beyond Spring
Intranasal Covid-19 vaccine	Altimmune.
INO-4800	Inovio Pharmaceuticals and Beijing Advaccine Biotechnology
NP-120 (Ifenprodil)	Algernon Pharmaceuticals
APN01	University of British Columbia and APEIRON Biologics
mRNA-1273	Moderna and Vaccine Research Center
Avian Coronavirus Infectious Bronchitis Virus (IBV)	MIGAL Research Institute
TNX-1800	Tonix Pharmaceuticals
Brilacidin	Innovation Pharmaceuticals
Recombinant subunit vaccine	Clover Biopharmaceuticals
Linear DNA Vaccine	DNA Sciences and Takis Biotech
BXT-25	BIOXYTRAN
INO-4700 (GLS-5300)	Inovio in partnership with Gene One Life Science.

Table 2: Ongoing research of drug against COVID-19

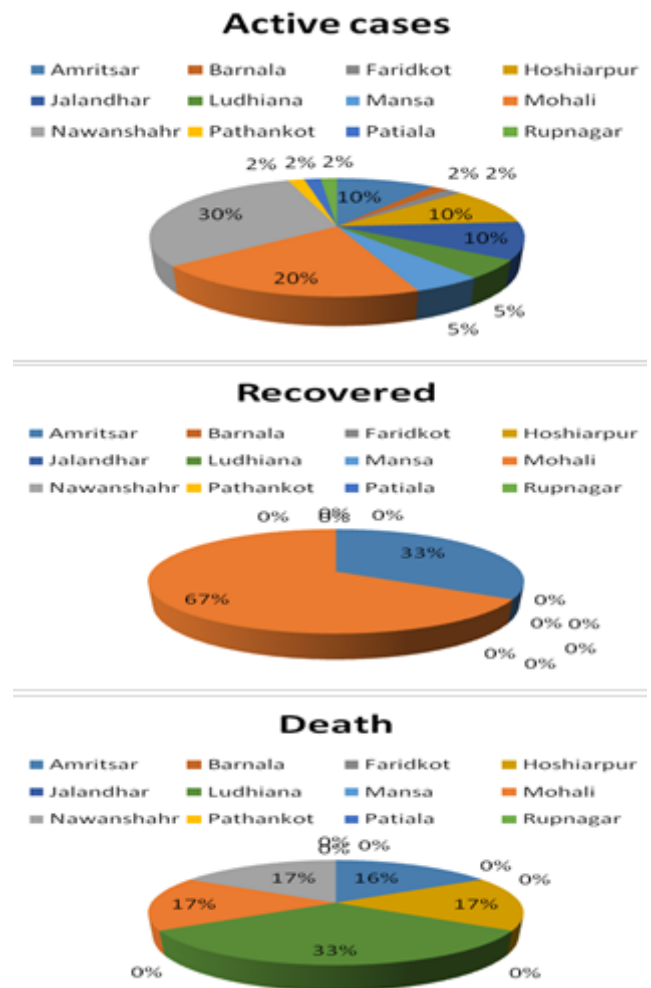
Drug	Company/research group(Ref-6)
Remdesivir (GS-5734)	Gilead Sciences
Actemra	Roche
Galidesivir	Biocryst Pharma's
SNG001	Synairgen Research
Amnio Boost	Lattice Biologics

3. Vaccine/Drugs in Pipeline for Covid -19

The first COVID-19 vaccine in China is expected to be ready for clinical trials by the end of April. Health representative from WHO have noted that Gilead's remdesivir has shown effectiveness in treatment of corona virus infection. By US FDA is approved Chloroquine as emergency drug in corona virus infection. The US Food and Drug Administration (FDA) approved partial urgent situation utilize for chloroquine and hydroxychloroquine as a treatment for COVID-19 infection. In China Favilavir, the first approved drug for coronavirus.⁶

4. Pharmaceutical Companies/Research Institutes Involved in Developing Coronavirus Drugs/Vaccines

Various Pharmaceutical companies/research institutes are doing there effort to control the COVID-19. Here is a Table 1 and Table 2 of pharmaceutical companies across the world is developing drugs/vaccines against corona-virus.

**Fig. 2:** Representation of corona virus effected active in Punjab from 9 December to 5 April data

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