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Myths related to COVID-19 infection (Compiled from various sources: WHO website, newspaper articles).				
Serial no	Myths	Assumptions based on the myth	Truth/reality evidence	Remarks/message needs to be delivered to public
Related	d to the prevention of COVI	D-19 infection		
1	Eating garlic, turmeric, and/or lemon (and other foods commonly used as home remedies for flu and the common cold) can help prevent Covid-19 infection.	Garlic and turmeric have antimicrobial properties. Vitamin C is an essential vitamin that can support immune function.	No evidence in the form of a DB RCT from the current outbreak that garlic or lemon (or vitamin c rich foods) can protect someone from getting COVID-19 infection	Most of the Indians use garlic, turmeric, and lemon in their daily foods. No additional benefit is ensured if taken in excess amounts. The government and Ayush advisory mention these to be useful to improve immunity, not as preventive strategies.
2	Regularly rinsing with salt water or saline can help prevent COVID-19 infection.	The virus dies in salty water.	No evidence that regularly gargling has protected people from COVID-19 infection.	While this strategy may help soothe a sore throat due to any flu-like infection, however, this practice will not prevent

anybody from developing

				COVID-19 infection if exposed to the same.
3.	Drinking warm water and getting enough sunlight are effective in preventing COVID-19.	Heat or warm fluids kill the virus.	No evidence that the nCoV-SARS virus can be killed at higher temperatures.	Drinking warm water and getting enough sunlight may have other health benefits. Sunlight is good to get Vitamin D, which has a role in modulating the innate and adaptive immune responses. But too much exposure to sunlight may also lead to sunburn.
4.	Taking a hot bath can prevent COVID-19 disease.	Heat kills the virus.	Taking a hot bath will not prevent you from contracting COVID-19.	Taking a hot bath with extremely hot water can be harmful, as it can cause burns to the body.
5.	The COVID-19 infection cannot be transmitted in areas with hot and humid climates.	Heat kills the virus.	The COVID-19 virus can be transmitted in all areas, including areas with hot and humid weather.	Only infection control measures and adequate hand hygiene can prevent the infection

6.	Hand dryers are effective in killing the novel	Heat kills the virus	No evidence	Only infection control measures and adequate
	coronavirus.	viius		hand hygiene can prevent
	coronavirus.			the infection
				the infection
7.	Spraying alcohol or	Since alcohol is	Spraying alcohol or	Spraying such substances
	chlorine all over your body	used in sanitizers	chlorine all over your	can be harmful to clothes or
	can kill the COVID-19	and chlorine is	body will not kill	mucous membranes (i.e.,
	virus.	used in	viruses that have	eyes, mouth). Both are used
		hypochlorite	already entered the	to disinfect surfaces, but
		solutions, it can	body.	they need to be used in
		be used to kill the		appropriate
		virus from the		proportion/quantities under
		body by applying		appropriate
		it all over.		recommendations
8.	Sniffing/inhaling alcohol	Alcohol can kill		No evidence for the
	can protect from	any virus which		protective effect of alcohol
	developing the COVID-19	has entered the		inhalation against COVID-
	infection.	respiratory tract.		19 infection
9.	Vaccines against		Vaccines against	Researchers across the
	pneumonia can protect you		pneumonia, such as	world are trying to develop
	against the COVID-19		pneumococcal	a vaccine against COVID-
	infection.		vaccine and	19.
			Haemophilus	
			influenza Type B	

			vaccine, do not protect against the novel coronavirus.	
10.	Wearing a mask or N95 mask can only prevent the transmission of COVID-19.	Masks protect from inhaling the virus-laden air	There is evidence that masks can prevent an asymptomatic patient of COVID-19 from spreading the virus.	Only masks won't help, but proper and adequate infection control measures, social distancing, appropriate use of masks, and hand hygiene is the best possible solution to prevent getting infected.
11.	Drinking alcohol can cure COVID-19.	Alcohol is present in alcohol sanitizers which kills the virus, therefore consuming alcohol can cure/prevent getting the infection.	No evidence to suggest that alcohol intake can protect from getting infected. In fact, alcohol use and subsequent intoxication can affect the social distancing norms, impair hand hygiene, and other infection control measures, and pose an imminent risk of contracting the infection.	Alcohol intake should be reduced or avoided to follow the infection control measures and social distancing

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12. Using cow dung and cow's Cow's urine is the No evidence No evidence to suggest that urine can cure the virus. most sacred thing of cow's urine in the on Earth, and it treatment or prevention of can purify one's body from all types of

13. Religious chants can protect from the virus/Clapping hands creates vibrations that destroy the coronavirus

creates sound
waves, and the
sound produced
is sensed through
the vibrations of
our eardrums,
which then
creates
oscillations in the

fluid in our inner ear and increases

our ability to fight with the

virus.

Clapping hands

infection.

No evidence regarding this. The vibration created by chanting would not even be sensed by something as small as a virus.

Chanting and religious discourses with clapping hands can be an effective coping skill to combat stress and anxiety related to COVID-19. It boosts up the mood and calms the mind.

**COVID-19 Infection Translmission** 

1	The new coronavirus can be transmitted through mosquito bite.		No evidence that mosquitoes can transmit the COVID-19 infection.	No need to worry about the relationship between mosquito bites and developing the COVID-19 infection.
2	Pets at home can spread the COVID-19 virus.	Animals spread the COVID-19 as it was detected in the China meat market.	At present, there is no evidence that pets can transmit the COVID-19 infection.	No need to worry about the disease being transmitted by pets
3	Non-vegetarian food (meat/eggs/fish/chicken) consumption can lead to infection	Meat consumption had spread the COVID-19 as it was detected in the China meat market.	No evidence to suggest that that the COVID-19 can be transmitted by eating properly cooked nonvegetarian foods	No need to worry. People can safely consume all types of properly cooked non-vegetarian products
4	Donating blood can result in acquiring COVID-19 infection.	Donating blood can reduce the immune system, and one gets more vulnerable	No evidence that COVID-19 can be transmitted by blood donation	COVID-19 period should not be a barrier to blood donation. Any healthy person can donate blood.

		to contract the infection.		
5	You would be at risk if someone infected in housing complex/neighborhood	The virus spreads in the entire air, and all around the infected person can be infected.	The real fact is that one cannot get infected if he/she maintains a two-meter distance from the infected patient, wears a mask, and avoids touching contaminated things. Practicing adequate hand hygiene and infection control measures can prevent from getting infected.	The public should be empathetic towards the patients with COVID-19 or people suspected of having COVID-19 and under home isolation/ quarantine.  Maintaining adequate distance and infection control measures can help them in reducing the risk of getting infected.
6	Ordering or buying products shipped from overseas will make a person sick.	Fomite transmission	As per the WHO, the likelihood of becoming infected with COVID-19 from a commercial package is low since it has likely traveled over several days and had been exposed to different temperatures	The potential risk of getting infected from overseas products is minimal /negligible.

			and conditions during	
			transit.	
7	Newspapers, milk packets,	Virus remains on	No evidence of	No need to panic and avoid
	and vegetables can	newspapers and	newspapers being	buying newspapers/milk
	transmit the infection.	milk packets for	potential carriers of	products/vegetables.
		a long time	COVID-19 had been	Practice hand hygiene
			proved. There is no	measures to prevent from
			risk of contracting the	getting infected.
			illness through	
			newspapers or any	
			packages, and no	
			current data/research	
			suggests that the virus	
			can survive on paper	
			for long hours.	
			Following the hand	
			hygiene measures,	
			while touching the	
			milk packet, may be	
			sufficient to avoid the	
			development of	
			COVID-19 infection.	
8	COVID-19 infection can	Pregnant females	To date, there is no	The public needs to be
	be transmitted from the	are at the highest	data (as per WHO), to	reassured that pregnancy
	mother to the child/fetus	risk of	the effect that a	and childbirth are safe, and
		transmitting the	pregnant female with	the same precautions are to
		infection to	COVID-19 can pass	be taken by pregnant

	during the process of birth/delivery or pregnancy	baby/fetus during pregnancy or during childbirth.	the virus to her fetus or baby during pregnancy or process of childbirth. The active virus has not yet been found in samples of amniotic fluid.	women as the general population.
9	Pregnant women with suspected or confirmed COVID-19 need to give birth by cesarean section (CS) only.	Virus can spread through normal vaginal delivery.	The WHO clearly advises that CS should only be performed when medically indicated/ justified. The mode of birth should be individualized and based on a woman's preferences alongside obstetric indications.	CS should not be asked unless indicated by the treating obstetrician.
10	If pregnancy occurs, there is a high risk of miscarriage, abortion, or congenital malformations due to COVID-19.	Pregnancy is risky during COVID times.	There is currently no evidence to support that acquiring COVID-19 predisposes to a heightened risk of miscarriage. There is also no reported	No need to worry if one gets pregnant during COVID-19 pandemic.

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evidence to suggest that the virus will cause any problem with fetal development.

Although some reports of preterm delivery and neonatal pneumonia have been reported, however currently the adverse pregnancy outcomes in few reports cannot be attributed to COVID-19 only.

11 COVID-19 infection can be transmitted through breast milk to the newborn/breastfeeding.

Breast milk can carry the virus to the baby.

Till date (as per WHO), the virus has not been detected in the breast milk of any mother with confirmed or suspected COVID-19 infection. Researchers are continuing to test breast milk from COVID-19 mothers.

breastfeeding can spread
the virus. Breast milk in all
settings improves survival
and provides lifelong
advantages to newborns.
Following delivery, the
WHO recommends that the
baby needs to be provided
with skin-to-skin care,
including kangaroo care
with adequate respiratory
hygiene and hand hygiene

It is very unlikely that

				measures and breastfeeding the baby.
12	All health care workers (HCWs) are a potential source of COVID-19 infection.	HCWs are exposed to patients with COVID-19 infection.	HCWs are regarded as the front line warriors for tackling with COVID-19 infection. They are well-equipped with personal protective equipments (PPEs), which protect them against contracting COVID-19 infection.	There is an urgent need to create awareness in the general public that HCWs take all safety measures to protect themselves from getting infected.  There is no need to worry or to panic when they come near any HCWs.
13	Someone without symptoms cannot spread the infection.	Respiratory symptoms are mandatory to be present to spread the virus.	About 90 % of the patients with confirmed COVID - 19 infection are asymptomatic and hence are potential carriers of virus.	Most of the patients are asymptomatic and can spread the disease, so adequate social distancing and hand hygiene measures to be taken when dealing with a suspected COVID-19 person.
14	All those who been quarantined because of travel history had	Foreigners or Indians who had recently returned from abroad had	The COVID-19 infection gradually spread across the World since its	Quarantine means under observation. Therefore, those who had returned from abroad are kept under

	developed the COVID-19	spread the	outbreak in China to	quarantine to check for any
	infection.	COVID-19	almost all countries.	development of symptoms
		infection.	However, it is not	to detect for COVID-19.
			true that anyone who	This does not mean that
			has a positive travel	they are already infected
			history to abroad is	with COVID-19.
			harboring COVID-19	
			infection.	
15	Someone who has	Once a COVID-	Once recovered or	The public should be made
	recovered from COVID-19	19 patient always	tested negative as per	aware that those recovered
	infection can still spread	a patient, i.e., a	WHO (RT-PCR) viral	do not carry the virus
	the infection.	patient carries the	testing, the person is	potential for infection and
		virus even if	declared recovered	must be accepted back in
		recovered.	i.e., he/she is immune	the community with due
			to the infection and	respect.
			has developed	
			immunity or	
			antibodies against the	
			COVID-19 and	
			therefore, they are	
			absolutely safe, and	
			they cannot transmit	
			the infection.	
16	Unprotected sexual	Sexual	Unprotected sexual	Sexual intercourse with a
	intercourse can lead to	intercourse can	intercourse with a	steady partner with no
		spread the virus.	steady partner with no	contact history does not
			contact history who is	pose any risk of infection.

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spreading of COVID-19

not known to be
However, sexual
infection.

infected with
intercourse with unknown
COVID-19 poses no
people should be avoided
risk of transmission
as their COVID-19 status

risk of transmission as their COVID-19 status of COVID-19. To cannot be confirmed date, the virus had been detected in only

 $\ \, \textbf{COVID-19} \ \textbf{infection-related} \ \textbf{myths} \\$ 

1 COVID-19 affects only older people.

reported in elderly

More deaths

elderly worldwide The new coronavirus can infect people of all ages. Older people and people with preexisting medical conditions (such as asthma, diabetes, and cardiovascular diseases) are more

a few cases in the seminal fluid of

infected persons.

vulnerable to
acquiring infection
due to poor immunity.

WHO advises people of all ages to take all adequate

steps to protect themselves from the virus (good hand

hygiene and good respiratory hygiene)

2.	People who get the	Nature is trying	About 80-90% of	Not to panic or get afraid if
	coronavirus/COVID-19	to revive, and	persons infected with	you are infected with
	will die.	COVID-19 is	COVID-19 are	COVID-19. In most of
		Nature's or God's	asymptomatic or have	instances, it will be a
		way to reduce	milder flu symptoms,	milder form of flu-like
		population.	and the death rate is	illness. The HCWs will
			below 2%.	take appropriate measures
				if the condition worsens
				(which is seen in 8-10%
				cases), mostly in those with
				pre-existing chronic
				medical illnesses.
3.	The Indian Immune system	Indians have a	No such comparative	Need to consider that
	is better than the West, and	good diet and	data on the immune	people of all ages, of all
	thus, Indians will survive	more robust and	system of Indians Vs.	races and ethnicity, are
	Covid-19 infection better.	hard-working so	West is available.	equally prone to contract
		COVID-19 can't		the COVID-19 infection
		affect us.		
4.	COVID-19 can be treated	These materials	No evidence for any	Not to follow/believe any
	by colloidal silver,	have anti-	special role for	such procedures or unless
	vitamins, teas, and	bactericidal and	colloidal silver,	approved by the National
	essential oils.	anti-viral	vitamins, teas, and	and International Health
		properties.	essential oils in	authorities.
			dealing with COVID-	
			19.	

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5. Having had malaria makes Chloroquine or No evidence yet in People should take one immune. Hydroxy this regard. If this was adequate measures to Chloroquine is true, then considering remain protected from being used to India to be the getting infected by malaria treat COVID-19, Malaria capital of the as well as COVID-19. which is an anti-World should have malarial drug. low case load, which is untrue. 6. Anti-bacterial drugs are COVID-19 is a viral No need to stock/pile effective for therapy of infection; therefore antibiotics and always use COVID-19 anti-bacterial agents antibiotics rationally and are not effective for only when advised by a treating COVID-19 medical practitioner. but are useful for treating secondary bacterial infections. Miscellaneous 1. Hand sanitizers are better Alcohol-based Hand hygiene No need to buy hand than soap and water. sanitizers are the measures by either sanitizers or hoard most potent alcohol sanitizers or sanitizers. Simple soap and disinfectants. soap and water are water is an equally equally effective in effective strategy that can be followed.

			protecting one from	
			getting infected.	
2.	Thermal scanners can	_	Thermal scanners can	Not 100 % effective
	detect COVID-19		only detect fever,	screening method.
			which is one of the	
			usual symptoms of	
			COVID-19, but a	
			person infected with	
			COVID-19 may take	
			2–10 days after	
			infection to develop	
			fever.	
3.	If the public water supply		No evidence that the	No need to believe in this
	is contaminated with		virus can spread	myth.
	COVID-19, the entire		through the water	
	community will be		supply. In fact, the	
	infected.		treatment in water	
			facilities/ having a	
			good shower can	
			protect from getting	
			infected.	
4.	Those immunized with	BCG vaccine	There is no evidence	BCG Vaccination prevents
	BCG are more likely not to	improves	that the BCG vaccine	severe forms of
	get COVID-19 infection		protects people	Tuberculosis. In the
			against infection with	absence of evidence
			J	

		immunity against all infections.	COVID-19. WHO to date has not recommended BCG vaccination for prevention of COVID-19, few trials are underway though.	regarding any efficacy of BCG in COVID-19, people should refrain from believing the BCG vaccine is protective against COVID-19. It can lead to a false sense of security and hence should not be believed unless proved.		
5.	No vaccine can be developed against COVID-19 infection.	God has sent COVID-19 as a declaration suggesting the end of the human race.	Researchers are actively engaged in developing a vaccine against COVID-19. However, clinical trials on a vaccine for COVID-19 may take a long time (months) to reach definite results.	The public needs to keep patience and to wait until any news about the vaccine is published by trustworthy websites/news or declared by the WHO. Refrain from believing on any random news about the vaccine being discovered		
DB RCT – Double blind Randomised controlled trial.						