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LESS SYMPTOMS, LESS AWARENESS – A DEEP VIEW ON COMMON COLD

ABSTRACT

The common cold is a viral infection of upper respiratory tract. Mostly common cold are affected by a virus called rhinovirus. Cold is a mild viral infection of a nose, throat, sinuses and upper airway. Mostly infection occur in a winter period. Common cold according to ayurveda is pratishyaya. The aim of our study was to assess the knowledge of common cold symptoms, treatment, diagnosis, in the population prevalence study was carried out to evaluate the knowledge of common cold among the medical and paramedical students of in various designations Tamil Nadu, India. We used the online survey tool (Google format).

Keywords

Common Cold, Rhinoviruses, Upper Tract, Awareness, Knowledge Assessment

AIM AND OBJECTIVES

The aim of our study was to assess the knowledge of common cold symptoms, treatment, and diagnosis in the population. To evaluate the knowledge of common cod among the medical and paramedical student (by cross sectional studies). To collect the responses and to analyse the data in statistical manner.

INTRODUCTION

Common cold is a viral infection of the upper respiratory tract. Mostly common cold is affected by a virus namely Rhinoviruses. It was first isolated in "1956 by Dr. WINSTON PRICE". Common cold are mild infection of the nose and throat, which are common in young children and are caused by many different viruses. There are around 200 cold viruses, including over the rhinoviruses. Each year, there are more than a billion causes of the common cold in the United States, according to National Institute of Health.

Usually last approximately 7-10 days. Rhinoviruses is a the most common cause in to 80% of all respiratory Infection. Dezens of rhinoviruses serotypes and frequently antigenic change make identification, characterization and eradication complex. Highly infectious illness. Causes mild systematic upset and prominent nasal symptoms. Infectivity from close personal contact (nasal mucosal on hand) or droplets.

HISTORY OF COMMON COLD

History, while the causes of the common cold was identified in the 1950s the diseases appears to have been with humanity since its early history. Its symptoms and treatment are described in the Egyptian ebers papyrus, the oldest existing medical text, written before the 16th century BCE. In the United Kingdom the common cold unit (CCU) was set up by the medical researches council in 1946 and was here that the rhinoviruses were discovered in 1956. Some researcher think the viruses could have started spreading from animals to human at dawn of human civilization – approximately 5,000 to 6,000 years ago.

NAME OF COMMON COLD

The name "common cold "came into use the 16th century, due to the similarity between its symptoms and those of exposure to cold weather.

MODE OF TRANSMISSION

Very contagious, spread from person to person usually from nasal secretion and from fingers of the affected persons. Most contagious in the first 3 days after symptoms begin. Viruses can last up to 5 hours on the skin and hard surface Contamination of shared food, objectives, etc.... Air born particles through coughing and sneezing taking, small droplets

SIGNS AND SYMPTOMS

Dry and sore throat, running nose, Sneezing, Headache, slightly fever and chills, Coughing, congestion Begins with a feeling of dryness and stuffiness in the nasopharynx (nose), Red and swallowing mucous membrane Watery eyes, Family history of allergies e.g. dust, pollens & molds, Coexistence of asthma or eczema, Chest discomfort, Postnasal drop or drainage in the back of your throat, Abdominal pain, Vomiting and diarrhea.

ETIOLOGY

Common cold caused by Respiratory Syncytial Virus (RVS) and rhinovirus (most frequent causative pathogen), other pathogen involved include influenza, Para influenza, and adenoviruses. Enteroviruses: coxsackie viruses and ECHO viruses, Renoviruses, Most infection occurs in the winter period, Most common acute illness in all ages, Increased in medical resource. Cold are most common in children younger than the age of 6 years who routinely experience six to eight colds annually.

PATHOPHYSIOLOGY

Direct contact with the influenced Viruses can stay in the unhygienic hands for hours Enter into nasopharynx. Bind to ICAM-1 (intercellular adhesion molecule -1) protein (protein present in leukocytes). Through unknown mechanism triggers

inflammatory mediators. Leads to be Signs and symptoms.

TREATMENT OF COMMON COLD

There is no cure for the common cold Antibiotics are of no use against cold viruses. Treatment should be focus on symptoms relief. The most common used treatment include over-the-counter, and, Antihistamine, Decongestant, Pain reliever, Cough suppressant, Nasal strips, Antibiotics are ineffective, Herbal product, Prevention the cold.

HOME REMEDY FOR COMMON COLD

Stay hydration: avoids salty foods, alcohols, coffee, tea, and sugary drinks, which can be dehydration. Gargle with salt water: a salt water gargle with about 1 teaspoon of salt per cup of warm water can help reduce the pain & swelling of a sore throat. Chicken shop, Warm bath, Honey, Ginger, Rest: this is the recharge your body's immune system rest and sleeping are best ways of to do that Humidity the air.



RISK FACTOR

Cold can affect anyone at any time of year but some factor can increases the risk. Being a young child or older adult. Having a weak immune system .Seasonal factor as cold are more common in winter. Having close contact with someone who has a cold. Extreme age, Allergy, Cytokine production, Asthma, Chronic lung disease, Smoking and second hand smoke, Exposure.

TYPES OF COLD

- 1.Common cold
- 2.Flu
- 3.Trachea cold
- 4.Chest cold

1. Common cold:

The illness of affected your nose and throat. Virus caused by a cold. Often may have two or three cold each year. Infant and young children may have cold more often.

2.Flu:

Flu is a contagious respiratory illness caused by influenza viruses that infect the nose, throat, and sometimes lungs. In cause mild to severe illness and at time can lead to death. It is caused by influenza viruses.

3. Trachea cold:

It is affected in trachea inside accumulate the cold.

4. Chest cold:

A chest cold, often called acute bronchitis, occur when the airway the lungs swell and produce mucus in the lungs. That is what makes you cough.

IS ANYONE WORKING ON A CURE FOR THE COMMON COLD

Amazon isn't the only organization throwing resources into a cure for the cold "Researchers at Stanford and the University of California are working on a new approach that involving temporarily disabling a single protein inside ours cells. Amazon is working on a cure for the common cold in its highly secretive skunkworks group." "GRAND CHALLENGE".

BEST MEDICINE FOR COMMON COLD

Decongestant, Anti-histamine. Pain relievers such as "ibuprofen or acetaminophen"

HOW MANY PEOPLE GET THE COMMON COLD PER YEAR

In the course of year individuals in the United States suffer 1 billion cold according to some estimates.

IS THERE A LAB TEST FOR THE COMMON COLD?

Viral infection typically causes common cold and coughs and "don't require specific blood test for diagnosis or management. However, there is certain situation when a blood test may be recommended for common cold and cough.

HOW MANY COLD CAN YOU HAVE IN A LIFETIME

On average each of us will get around 200 cold in a lifetime.

THERE ARE FOUR TYPES OF STAGES

- 1. Incubation period
- 2. Appearance of symptoms
- 3. Remission
- 4. Recovery

1.INCUBATION PERIOD:

Incubation period is the time between when you infected and when your symptoms first appear. The common cold is between 12 hours and three days after exposure to the virus.

2. APPEARANCE OF SYPTOMS:

Symptoms may include a stuffy, runny nose, scratchy, tickly throat, sneezing, watery eyes and a low-grade fever.

Treatment to reduce symptoms includes getting rest and drinking plenty of fluid. because colds are caused by viruses, treatment, with antibiotics won't work.

3.REMISSION:

At this point cold symptoms begin to alleviate remission typically occur between three and ten days after infection.

4. RECOVERY:

In a final stage of the common cold there then may be some remaining symptoms, but they're usually mild. it may take up to weeks for any lingering symptoms to fully resolve.

METHODOLOGY

- ➤ We used the online survey tool (Google form). A total of 115 participants completed the online questionnaire
- ➤ It consists of 10 questions on knowledge of Common cold.
- A semi structure questionnaire was adopted from previous studies with minor changes to suit the study population and the questionnaire.
- > The questionnaire was validated by were analyzed in a statistical manner.

REASONS FOR FRAMED QESTIONS

- ❖ In developing these questions, I aimed to enhance understanding of the common cold, a widespread and frequently encountered illness. By focusing causes, symptoms, prevention, and treatment, these questions are designed to encourage critical think and promote awareness of this everyday health challenge. They serve not foster a deeper appreciation for the importance of recognizing and managining common cold effectively.
- ❖ My goal was to address a range of key associate that are essential for understanding the prevalent condition.
- ❖ The question is framed to cover not only the basic symptoms and transmission method but also the various environmental and behaviors' factors in influencing susceptibility and the

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difference between the common cold and other similar illnesses.

RESULTS

S. NO	QUESTIONS	YES (%)	NO (%)
1.	Do you hear about the word common cold?	97%	3%
2.	Whether it will be caused by virus only?	60%	40%
3.	Common cold affected the other inner organ like heart, brain?	50%	50%
4.	Did you know celebrate in 15 th September World Anti-cold day?	20%	80%
5.	Do you think, there is complete treatment for cold?	47%	53%
6.	Do you obtain medicine from a medical shop or directly from Doctor?	80%	20%
7.	Can you identify the source of cold you are suffer from?	20%	80%
8.	Can dust cause a cold?	40%	60%
9.	Is vitamin C deficiency, a cause of cold and cough?	50%	50%
10.	Does on untreated cold lead to pneumonia?	15%	85%

RESULTS AND DISCUSSION

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Ι.	L)വ	VOII	near	about	the	word	common	cold

YES - 97 %

NO - 3%

- > YES, Common cold is a mostly affected in the people. It is a common illness in the world.
- It is a mild infection of upper respiratory tract (which includes your nose and throat).
- Adults have an average of 2-3 colds per year, and children have even more.
- > Colds are more common in the winter and spring, but you can get them at anytime.
- 2. Whether it will be caused by virus only?

YES - 60%

NO - 40%

- No, common cold is not only caused by virus.
- > It is also caused by contact with others who is already affected by common cold.
 - A. Droplets in the air: When someone who is sick coughs, sneezes, or talks.
 - B. Hand to hand contact: Touching someone who has a cold.
 - C. Sharing objects: Sharing dishes, towels, toys, or telephones with someone who has a cold.
 - D. Touching your face: Touching your eyes, nose, or mouth after contact with the virus.
- 3. Common cold affected the other inner organ like heart, brain?

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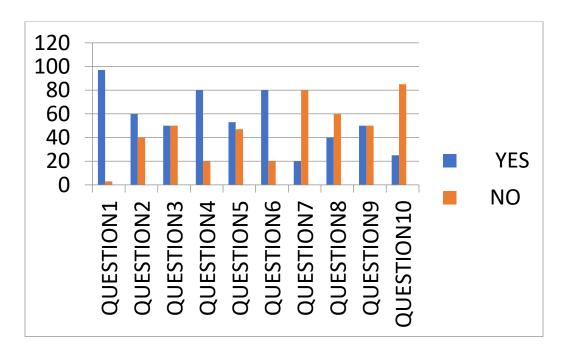
YES - 50 % NO -					
anxiety .It affect the olfactory bulb the st	rt rate. Because, the symptoms of a cold can cause stress and ructure in the front of the brain - (anosmia) – loss of smell.				
affecting the transmission of nor-adrenal	e sluggishness by interfering with neurotransmitters, perhaps ine, choline and dopamine.				
4. Did you know celebrate in 15^{th} September Wo YES - 20 % NO	- 80 %				
YES, Common cold Awareness week cel to create awareness for people.	ebrated on 13 th -18 th September .It was first celebrated on 2009,				
	September 10 th to 15 th , 2018 to mark "Anti-cold day" on				
5. Do you think, there is complete treatment for YES - 47%	cold? NO - 53%				
	d in both medicine and home remedies, only relief for the				
* *	viruses, most commonly rhinovirus and these viruses mutate				
it's challenging to develop a single treatn	nent that completely cures or prevents cold.				
system to fight off the infection.	is to manage the symptoms and allow the body's immune				
6. Do you obtain medicine from a medical shop? YES - 80 %	Or directly doctor? NO - 20 %				
NO, if a doctor advice is not taken before	e using medicine, it may create some side effect- antibiotic.				
7. Can you identify the source of cold you are sure YES - 20 %	ffered from? NO - 80 %				
Yes, identifying the exact source or caus variety of viruses, most commonly rhind	e of a cold can be challenging because cold caused by a wide				
➤ However, here few ways you might iden	tify potential sources or contributing factors:				
ii. Environment	riduais				
iii. Weakened immune systemiv. Recent travels and new surround	ing				
	5				
8. Can dust cause a cold? YES - 40 %	NO - 60 %				
 YES, dust and dust mite droppings can make it difficult to breath and may trigger asthma symptoms. Some signs and symptoms of dust mite allergy, such as a runny nose or sneezing are similar to the common cold. 					
	a illness that may follow exposure to heavy concentration of anisms.				
9. Is vitamin C deficiency, a cause of cold cough YES - 50 %	? NO - 50 %				

- NO, vitamin D deficiency it affects your immunity, prone to cold and flu.
- Vitamin D is a beneficial in improving fever and cough resolution.
- 10. Does on untreated cold lead to pneumonia?

YES - 15 %

NO - 85 %

- > YES, a cold or bronchitis can turn into pneumonia.
- A common cold can potentially develop into pneumonia.
- ➤ Viral and bacterial pneumonia can both be connected to cold and other upper respiratory illness.
- ➤ While cold do not directly cause pneumonia, it can increase your risk of developing it.



SUMMARY AND CONCLUSION

Increased and improved common cold education is clearly needed in the respected curriculums for students in the health profession, and the continuing education for health professionals.

We suggest the there are opportunities of increase common cold knowledge across a broad.

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5.ERODE COOLEGE OF PHARMACY

6.JKKN COLLEGE OF PHARMACY

7.EXCEL COLLEGE OF PHARMACY

8.TAGORE COLLEGE OF PHARMACY

9.KMCH COLLEGE OF PHARMACY 10.VINAYAKA MISSION COLLEGE OF

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