

1. A 2013 biographical film set at the backdrop of the HIV-AIDS epidemic in the USA came under criticism for its inaccurate portrayal of the drug 'X'. The drug which was prescribed at high doses in the initial period of its use was dismissed as highly toxic and ineffective in the film. On the contrary, it was actually one of the first drugs that ended up prolonging survival in patients of HIV-AIDS, especially at a time when the infection was considered as a death-knell. The drug did have side effects like bone marrow suppression and hepatotoxicity but that was due to the high doses that were being administered mostly out of the fear that a lower dose wouldn't be sufficient enough to slow down the virus.

'Y' won an Academy Award for his performance in the same film as a rodeo battler with HIV.

Identify the drug 'X' and the actor 'Y'.

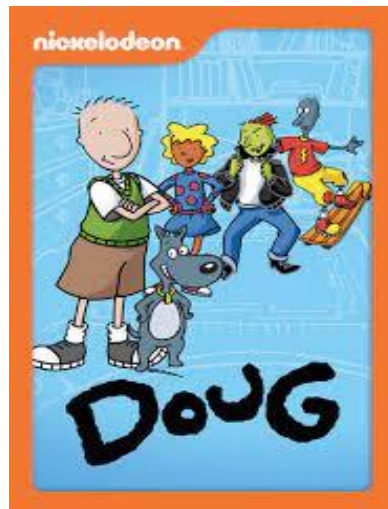
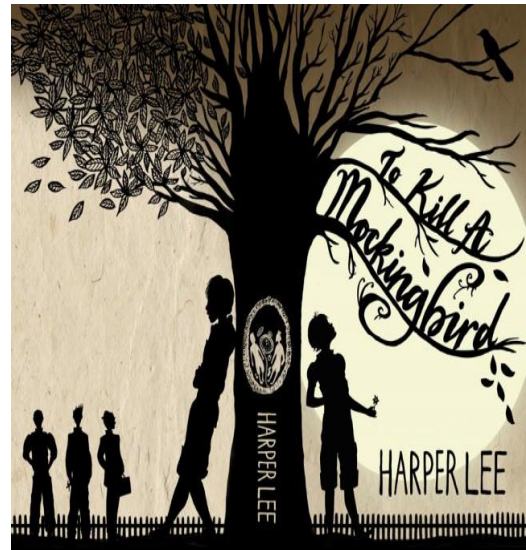
X – azidothymidine/zidovudine

Y – Matthew McConaughey

2. Behind the closed doors of the Fatebenefratelli Hospital in Rome, Italy has a ward filled with patients being treated for a highly contagious, disfiguring and deadly disease discovered by Giovanni Borromeo, known as K Syndrome. What was the reason behind the outbreak of this endemic in Rome in late 1943?

It was a fictitious disorder made up to save the Jews and anti-fascists from the Nazis and fascists respectively. (A sentence that projects a similar meaning is accepted)

3. **Connect the following pictures.** (Image Sources –
i) [https://batman.fandom.com/wiki/Robin_\(Matsudaverse\)?file=TheBatmanRobin.gif](https://batman.fandom.com/wiki/Robin_(Matsudaverse)?file=TheBatmanRobin.gif), ii) <https://thecensorshipfiles.wordpress.com/to-kill-a-mockingbird/>
iii) <https://www.imdb.com/title/tt0101084/>)



Nicknames for mutations of the COVID-19 virus/COVID-19 mutations/etc.

(The names being Robin, Mockingbird, and Doug respectively)

4. In the November 1953 issue of 'The Lancet', a physician wrote an article elucidating about an effective therapy for a disease that had caused devastating epidemics in Calcutta. The man was Dr. Hemendra Nath Chatterjee and he was working with patients at the Infectious Disease Ward of Chittaranjan Hospital. The therapy that he talked about had excellent outcomes in the patients who he was treating but back then, it was not given its due citing a lack of controls in the aforementioned trial. Which therapy are we talking about here?

Oral rehydration therapy/Oral rehydration solution

5. A part of all our childhoods, this rhyme was originally a ballad describing the red rashes developed by victims of the Bubonic plague. It was believed that the disease was spread through bad smells, which meant that people held bunches of flowers while going in public, in order to protect themselves from the disease. Identify the nursery rhyme.

Ring-a-ring o' roses/Ringa ringa roses/Ring-a-round the rosie

6. Caroline Hampton was the 'Chief Surgical Nurse' of Johns Hopkins Medical Hospital in the 1880s at a time when it was considered radical for women to be educated and earning an independent living. The scrubbing process before a surgery was a demanding procedure in which after washing with soap, the hands were placed in a potassium permanganate solution followed by a hot oxalic acid solution. Caroline, who had a childhood history of contact dermatitis, developed constant bouts of it after washing her hands with these chemicals which led her to the verge of quitting from her job in 1889. At this point, Dr. William Halsted who is often referred to as the 'father of modern surgery' gifted her something which helped her to continue working. What was this gift?

Surgical gloves/a pair of surgical gloves

7. *“...a vodka mint lemonade—was born out of an abundance of citrus that needed to be used up. Yes, he took lemons and made them into lemonade, “which is kind of cheesy but it’s also what happened.” The barman is also making espresso martini pouch because he can get a longer shelf life out of cold brew and had a lot of Grey Goose vanilla. Other flavors include sweet tea bourbon and strawberry gin.”*

Given above is the description of a cocktail that was developed at the Capo Italian Deli in Washington DC and gained immense popularity during the COVID-19 pandemic. X, who is the inspiration behind the cocktail, is known for his continuing contribution to medical science and public health and became one of the most prominent faces during the pandemic. Identify X.

Fun fact – The same deli sold Piña Kamala and Mike Pencilin Cocktails during the US election.

Dr. Anthony Fauce/Dr. A. Fauci/Dr. Fauci/Anthony Fauci

8. A 55-year-old hypertensive gentleman presented with a five day history of a high-grade fever, non-bloody diarrhea, and confusion. The patient is a smoker with a 10 pack-year history and on examination he was tachypneic, tachycardic, and had moderate respiratory distress. His respiratory examination showed coarse breath sounds bilaterally with diffuse rhonchi. His electrolyte levels were deranged with sodium measuring 125 mmol/L, chloride 91 mmol/L, while a chest X-ray showed the following findings –

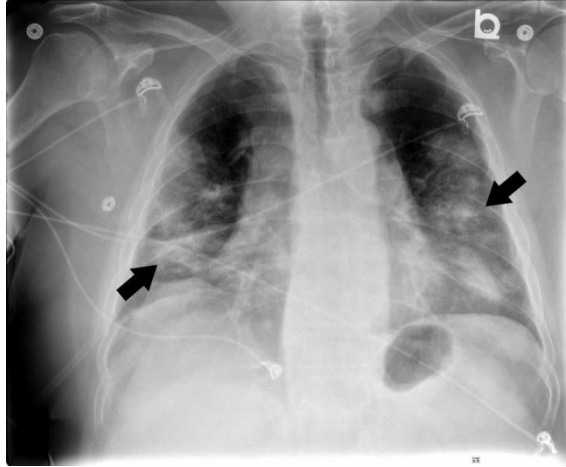


Image source - <https://www.cureus.com/>

Identify the causative organism behind this disease, which was responsible for a much talked-about outbreak in the USA in 1976.

Legionella pneumophila/Legionella

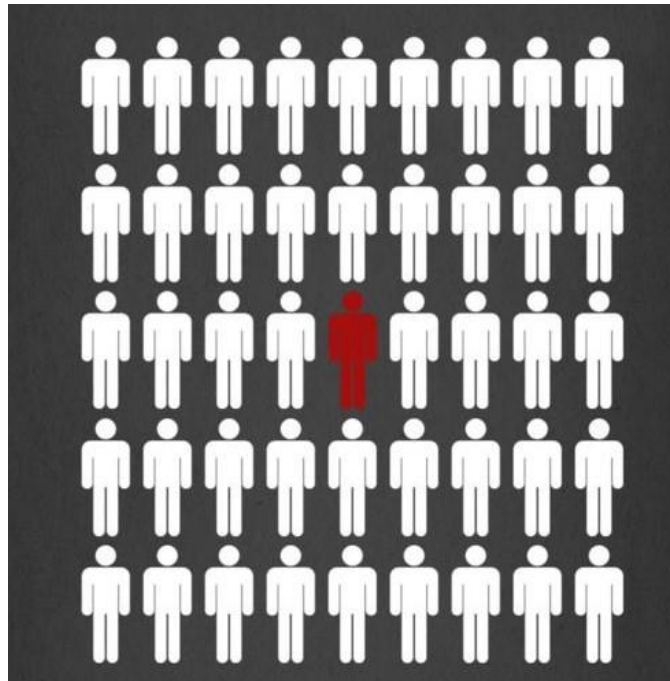
9. This pop-culture phenomenon arose from an episode of the show 'Pyonstorang' where the actor Jung Il-woo tried something in Macau which reminded him of a specific type of sponge candy from his home country of South Korea. The name stuck and became a social media phenomenon in South Korea from where it spread to the rest of the world.

The name became even more famous when combined with a very popular form of stress-reliever whose consumption has boomed during the lockdown period.

Identify this candy or the newly formed concoction.

Dalgona/Dalgona coffee

10. Identify the movie from its minimalist poster.



Contagion

11. The inventors of alcohol-based sanitizers were Goldie and Jerry Lipman, who in the 1980s developed a “viscous isopropyl hand sanitizer” meant to dissolve and work quickly and efficiently. Their invention was accompanied by the development of a 70-year-old standard scale developed by a Danish chemist who worked as the director of Carlsberg Laboratories in 1909 and created this system for establishing standardization for the quality of beer produced in the Carlsberg breweries. What was the system developed by him?



pH Scale

12. Nodding Syndrome is an unexplained neurological condition that gets its name from the characteristic nodding seizure that occurs in it – in which the children affected repetitively nod their heads in a pendulous motion. It affects the 5 to 15 year age group and has been reported in Sudan, Tanzania, and Uganda. While it isn't known as to what causes the disease, it is believed to be connected with infestations of a particular parasite X which is also responsible for causing 'river blindness', occurring almost exclusively in Africa. In 2015, the Nobel Prize for Medicine was awarded jointly to William C. Campbell, Satoshi Omura, and Tu Youyou – while Youyou received it for her discovery of artemisinin to treat malaria, Campbell and Omura were awarded it for their development of the drug Y, that is used in the treatment of 'river blindness'.

Identify X and Y.

X – Onchocerca/Onchocerca volvulus

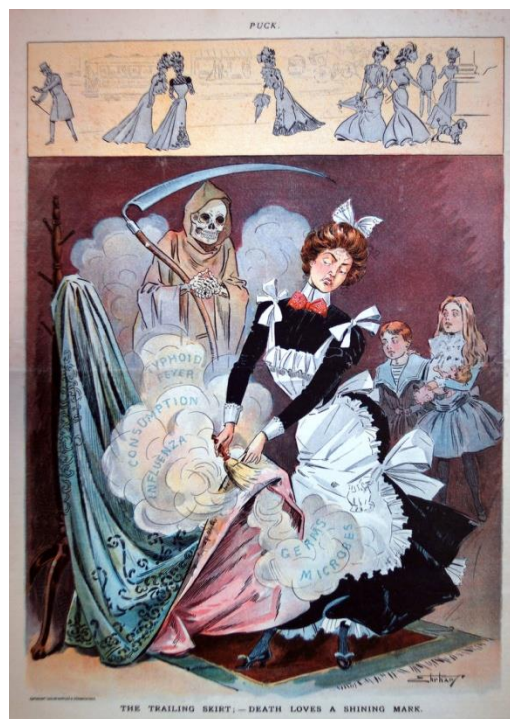
Y – Ivermectin/avermectin

13. Thinness, sparkling eyes, rosy cheeks, and pale skin – during the Victorian era this disease became entwined with notions of feminine beauty. Among the upper class, a woman's predisposition to develop this disease was measured by her attractiveness as it enhanced features that were then established as 'beautiful' in women. An article in the Smithsonian Magazine notes – "Preventing the spread of this disease became the impetus for some of the first large-scale American and European public health campaigns, many of which targeted women's fashions. Doctors began to decry long, trailing skirts as culprits of disease. These skirts, physicians said, were responsible for sweeping up germs on the street and bringing disease into the home. Consider the cartoon "The Trailing Skirt: Death Loves a Shining Mark," which appeared in *Puck* magazine in 1900: The illustration shows a maid shaking off clouds of

germs from her lady's skirt as angelic-looking children stand in the background. Behind the maid looms a skeleton holding a scythe, a symbol of death.”

Which disease is being talked about here?

Tuberculosis



(Image Source – Wikimedia)

14. Literally meaning '40 days', this concept is borrowed from the Ancient Greek concept of 'critical days'. The earliest example of it is found in historical documents which show that the Adriatic port city of Ragusa passed a legislation in 1377 during the plague of Milan, requiring ships, known to have come from other cities where infections were prevalent, to anchor for 30 days before anyone could set foot on dry land. What practice is being talked about here?

Quarantine/quarantining

15. Stephen Lyon Crohn was a painter and the great-nephew of Burrill Bernard Crohn, after whom Crohn's disease was named. He was one of the very few people in the world to have the 'delta32' mutation in his immune system which gave him a specific power that helped him survive through one of the gravest crises this world has seen in the realm of public health and human rights. What was this power of his?



Image Source – The New York Times website

He was immune to HIV-AIDS/He was immune to HIV-AIDS due to a mutation in the CCR5 receptor/The man who can't catch AIDS