

# Multi-Doc Summarization

## COVID-19

Sharon Wang  
Week 7

# CatE Countries

- adjusted **min count threshold** to 50

China	Italy	United_States	Korea
Chinese	Italian	president	Korean
mainland	Rome	Pence	missiles
Wuhan	Modi	World_Health_Organization	Jong-un
Beijing	Milan	Donald_Trump	South
Hubei	Spain	Trump	North
Li	lockdown	Donald	Kim
epicentre	grind	Republican	Daegu
	Leo	governor	Seoul
	Giuseppe		
	entire		

# CatE Items

<b>mask</b>	<b>ventilator</b>	<b>vaccine</b>
wear	lungs	immunity
face	machine	trials
gloves	breathe	antiviral
homemade	tube	research
cloth	ICU	clinical
N95	oxygen	VIDO-InterVac
	machines	scientists

# CatE Topics

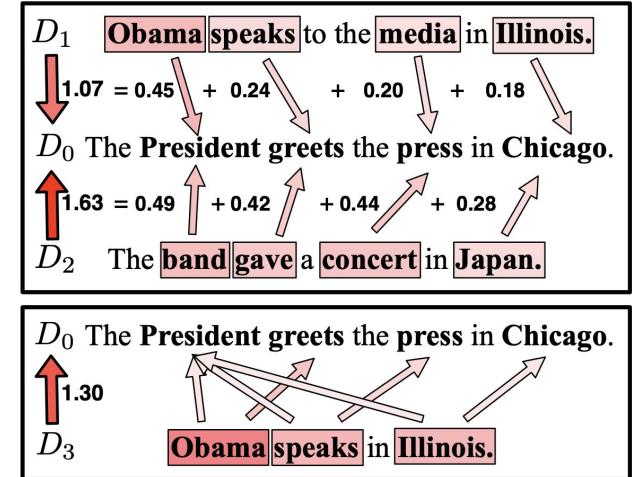
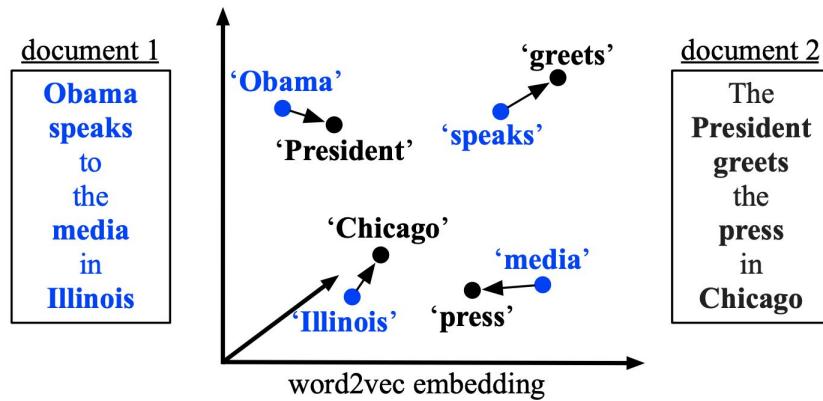
<b>symptom</b>	<b>death</b>	<b>economy</b>	<b>protest</b>	<b>racism</b>
sore	toll	recession	crowd	discrimination
throat	reported	stimulus	supporters	misinformation
fever	fatalities	growth	state	fear
runny	cases	fiscal	gathered	consequences
cough	count	restart	rally	behavior
breath	recorded	rebound	arrested	Asian
smell	surpassed	outlook	capitol	incidents
shortness	total		drew	
fatigue				

# 'China' Initial Results

- 1 Researchers found traces of RNA from SARS-CoV-2 in washrooms and some high-traffic areas in hospitals in Wuhan, China, and in Nebraska, and suggested it  
got into those areas through the air, though there was no evidence the particles were still infectious."So, the criticism is really a criticism of those  
national governments' inability to create the kind of strong public health agency that the world needs in this globalized era." Early response to  
pandemic criticized On Dec. 31, China alerted the WHO to a mysterious outbreak of pneumonia in the city of Wuhan, in the central Chinese province of Hubei.
- 2 Former Canadian ambassador to China David Mulroney said that information was put through a "political prism" in China and delayed as local officials  
determined how to put the best possible face on the crisis before sending it up the line to Beijing.
- 3 The statement from the Office of the Director of National Intelligence (ODNI), the clearinghouse for the web of U.S. spy agencies, comes as U.S. President  
Donald Trump and his allies have speculated about the as-yet-unproven theory that an infectious disease lab in Wuhan, the epicentre of the Chinese  
outbreak, was the source of the global pandemic that has killed more than 220,000 people worldwide.
- 4 Virus 'should be studied by scientists': Beijing U.S. officials say the American Embassy in Beijing flagged concerns about potential safety issues at the  
lab in Wuhan in 2018, but they have yet to find any evidence the virus originated there nearly two years later.
- 5 Beijing's pandemic response is China's 'Chornobyl moment,' critics say "Indeed, lately in the U.S. many people are questioning whether the U.S.  
government responded in a timely and effective manner," Foreign Ministry spokesperson Geng Shuang said at a daily briefing.
- 6 China has faced questions and criticism over how it reported cases and its initial response to the virus, which first emerged in the city of Wuhan.
- 7 Beijing's pandemic response is China's 'Chornobyl moment,' critics say The city had reported 46,452 cases, 56 per cent of the national total.
- 8 Wuhan, the capital of Hubei province, saw an addition of 1,290 victims That raised its death toll to 3,869 – the most in China – and confirmed suspicions  
that far more people died in the city where the illness began than has been previously announced.
- 9 WHO under fire Questions have long swirled around the accuracy of China's case reporting, with Wuhan in particular going several days in January without  
reporting new cases or deaths.
- 10 China has reported a total of 4,632 deaths among 82,788 cases, the bulk of them in Wuhan where officials recently raised the death toll by 50 per  
cent after a review of records.
- 11 Ben Nelms/CBC) Inside Canada's frayed pandemic early warning system and its COVID-19 response As COVID-19 quietly incubated in Wuhan, China, last fall,  
public health officials in Canada were looking for gaps that needed to be closed in their long effort to upgrade this country's online pandemic early  
warning system.
- 12 France signed an agreement with China in 2004 to establish a research lab on infectious diseases of biosafety level 4, the highest level, in Wuhan.
- 13 China didn't warn public of likely pandemic for 6 crucial days Elsewhere in mainland China, all areas in central Hubei province including Wuhan, the  
epicentre of the outbreak in China, are now considered low risk.
- 14 Kiyoshi Ota/Pool Photo via AP) The city of Wuhan in China, where the novel coronavirus that has since spread around the world was first reported, said it  
had revised up its total death toll by 50 per cent, addressing incorrect reporting, delays and omissions of cases.
- 15 Beijing's pandemic response is China's 'Chornobyl moment,' critics say Wuhan health officials raise death toll linked to COVID-19 by 50% The revision  
comes as U.S. and other officials question the accuracy of China's tallies – but also as those countries hit hardest by the pandemic have widely varying  
methodologies for counting their dead.
- 16 The first clues were evident back on Jan. 24, the day after Wuhan, China, was locked down.
- 17 Read more about the situation in Quebec China didn't warn public of likely pandemic for 6 crucial days: AP probe In the six days after top Chinese  
officials secretly determined they likely were facing a pandemic from a new coronavirus, the city of Wuhan at the epicentre of the disease hosted a mass  
banquet for tens of thousands of people, and millions began travelling through the city for Lunar New Year celebrations.
- 18 Beijing's pandemic response is China's 'Chornobyl moment,' critics say Global economy will suffer worst year since Great Depression of 1930s, IMF says  
The crisis likely knocked China's economy into its first decline since at least 1992 in the first quarter, raising the heat on authorities as mounting job  
losses threaten social stability.
- 19 China faced a new flare-up along its remote northern border with Russia, far from the original epicentre of Wuhan, which has all but declared victory in  
its battle against the pandemic.
- 20 Strict lockdowns had contained the disease in China, where it has killed a recorded 3,339 people since it emerged in the city of Wuhan late last year and  
then spread around the world.
- 21 WATCH | State of emergency in parts of Japan as COVID-19 cases rise: Top health official says minorities in the U.S. may be hit by the virus in greater  
numbers due to exacerbating health disparities 0:50 Mainland China's new coronavirus cases doubled in 24 hours as the number of infected overseas  
travellers surged, and new asymptomatic infections more than quadrupled, pressuring authorities to tighten measures to stem local transmissions.
- 22 According to a database maintained by Baltimore-based Johns Hopkins University, nearly 73,000 people have died as a result of the virus, which was first  
reported in China's Hubei province in late 2019.A total of 705 people with asymptomatic cases were under medical observation around mainland China.

# Decrease Redundancy

- To decrease redundancy in the summaries, I tried using **Word Mover's Distance**:  
<http://proceedings.mlr.press/v37/kusnerb15.pdf>.
- WMD measures the dissimilarity between 2 text documents as the minimum amount of distance that the embedded words of one document need to “travel” to reach the embedded words of another document.



# 'China' Compressed Results

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- 2 Former Canadian ambassador to China David Mulroney said that information was put through a \"political prism\" in China and delayed as local officials determined how to put the best possible face on the crisis before sending it up the line to Beijing.
- 3 The statement from the Office of the Director of National Intelligence (ODNI), the clearinghouse for the web of U.S. spy agencies, comes as U.S. President Donald Trump and his allies have speculated about the as-yet-unproven theory that an infectious disease lab in Wuhan, the epicentre of the Chinese outbreak, was the source of the global pandemic that has killed more than 220,000 people worldwide.
- 4 Virus 'should be studied by scientists': Beijing U.S. officials say the American Embassy in Beijing flagged concerns about potential safety issues at the lab in Wuhan in 2018, but they have yet to find any evidence the virus originated there nearly two years later.
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- 7 The first clues were evident back on Jan. 24, the day after Wuhan, China, was locked down.
- 8 WATCH | State of emergency in parts of Japan as COVID-19 cases rise: Top health official says minorities in the U.S. may be hit by the virus in greater numbers due to exacerbating health disparities 0:50 Mainland China's new coronavirus cases doubled in 24 hours as the number of infected overseas travellers surged, and new asymptomatic infections more than quadrupled, pressuring authorities to tighten measures to stem local transmissions.
- 9 The self-governed island claimed by Beijing has been seeking to showcase its own handling of the outbreak as it pushes back against China's efforts to isolate it diplomatically.
- 10 Global Affairs Canada has warned against all travel to China's Hubei province.
- 11 China's president visits Wuhan, epicentre of outbreak, as temporary hospitals close.
- 12 Major U.S. airlines such as Delta and American have cancelled all flights to mainland China until the end of March.
- 13 "Back on Canadian soil after being flown out of China's Hubei province, some of the more than 400 evacuees waiting out their coronavirus quarantine in Trenton, Ont.
- 14 India's PM orders 'total' lockdown; China to lift lockdown in most of Hubei province.
- 15 For weeks, while the coronavirus wracked neighbouring China and other parts of Asia, India's infection toll stood at just three, all students in the Chinese epicentre, Wuhan, who were treated in their home state of Kerala and recovered from the disease.
- 16 String music swelled and TV screens across China filled with images of gowned and masked hospital workers in Wuhan, bravely attending to victims of the COVID-19 virus outbreak.
- 17 The WHO committee held off on the emergency – a label that frees up funds and international assistance – because of the relatively small number of reported infections and China's aggressive lockdown in Hubei.
- 18 People collapsing in the streets of Wuhan, coverups of unreported deaths and travellers \"escaping\" quarantine in China at risk of spreading the coronavirus.
- 19 "A lost passport has turned into a blessing in disguise for a former Dalhousie University student from Wuhan, China.
- 20 Ontario's chief medical officer says the new travel advisory will put Iran on par with Hubei, China, in terms of risk assessment.
- 21 The embassy's charm offensive Despite Canada's decision to scale down its consular operations in China as a result of the novel coronavirus outbreak, the Canadian embassy in Beijing has been ramping up its outreach efforts on social media.
- 22 Cinemas in China already were shuttered, which affected the Chinese release of Sonic the Hedgehog and the Beijing premiere and a promotional tour of the James Bond film No Time to Die among other impacts.
- 23

# ‘China’ Summary’s Compression

- Example:
- 1. “Currently, Canada's Public Health Agency says travellers returning from Hubei, China are asked to contact the public health authority in their province within 24 hours of arrival.”
- 2. “Those who have travelled to China's Hubei Province (of which Wuhan is the capital) are asked to contact the public health authority in the area where they live within 24 hours of arriving in Canada.”
- These 2 sentences were determined to be redundant and only the first sentence was added to the summary.

# 'Mask' Initial Results

- 1 Studies have already provided evidence that the rate at which sick people shed the virus into their surroundings is reduced when they wear a mask.
- 2 A 2009 study by researchers in the U.S. and Singapore uses schlieren imaging to show airflow from a person's mouth a) without a mask b) with a medical mask and c) with an N95 mask. (
- 3 Los Angeles, Italy and Austria are among the places that have begun requiring customers to wear masks while shopping.
- 4 A woman wearing a face mask walks in a street during nationwide confinement measures in Paris.
- 5 Not all medical clinics and doctor's offices have the infrastructure or enough personal protective equipment (PPE) like gloves and masks to offer routine vaccinations safely.
- 6 Workers are required to wear face masks when being flown and bussed to and from the mines.
- 7 If you are using a cloth mask, Health Canada recommends washing it on a hot cycle and drying thoroughly.
- 8 Masked poll workers checked temperatures of arrivals and whisked anyone with a fever or not wearing a mask to separate areas to vote, sanitizing the facilities after they voted.
- 9 Experts criticize Ottawa for destroying millions of N95 masks.
- 10 Health Canada is monitoring how single use medical devices such as N95 masks could be safely reused during the COVID-19 pandemic.
- 11 Restaurants will have fewer tables and waiters will wear gloves and masks.
- 12 Watch | What you need to know about wearing a mask: Dr. Samir Gupta provides crucial information about wearing a mask during the COVID-19 pandemic and what to think about before putting one on.
- 13 Ontario will receive 250,000 N95 masks, five million procedural masks, 15 million gloves, 87,000 goggles and 50 ventilators; Quebec will receive 250,000 N95 masks, two million procedural masks and 15 million gloves; while British Columbia is set to receive 250,000 N95 masks.
- 14 In Manitoba, a Winnipeg medical team has designed a new mask for health-care workers that could help replace the N95 masks – but the province still needs to find someone to make them.
- 15 Michael Dwyer/Associated Press) Meanwhile, Defence Department officials say the White House has approved the production of N95 masks.
- 16 Manitoba hospitals to begin saving used N95 masks for possible sterilization and reuse\*Punit Paranjape/AFP/Getty Images) Authorities also made it compulsory for people to wear face masks when stepping outdoors in areas not covered by these restrictions in the two states.
- 17 Gloves should be worn by staff handling towels or laundry.
- 18 Doctors answer your questions about the coronavirus, including whether paper or N95 masks can be disinfected and used again.
- 19 Chief public health officer weighs in on masks The role masks can play to slow the spread of the disease has been contentious, with some countries requiring people to wear masks when out in public.
- 20 The recommendation represents an about-face for the public health officer, who until now has resisted the idea of non-health-care professionals wearing masks."Wearing a non-medical mask is an additional measure that you can take to protect others around you," Tam said, while warning that a non-medical mask doesn't necessarily protect the person wearing it.
- 21 Tam said Canadians shouldn't wear medical-grade masks like the N95, as those supplies have to be reserved for medical professionals.
- 22 Watch below: Doctors answer your questions about the coronavirus, including whether people should be wearing homemade or cloth masks when they are outside.
- 23 WATCH | Why N95 masks are so important: The Trump administration is telling one of the world's leading manufacturers of N95 masks that it should stop exporting masks to Canada and Latin America.
- 24 The province's chief nursing officer says housekeeping staff at its acute care centres will start collecting "gently used" N95 masks for sterilization and re-use if the masks are deemed safe.
- 25 In an afternoon news conference, Trump said that 3M is working to deliver 180 million N95 masks for the country's stockpile.
- 26 In her daily briefing, Dr. Theresa Tam also said chief medical officers are working on recommendations to the general public for the best uses of homemade face masks.
- 27 While Canada continues to try and secure new shipments of face masks and other personal protective equipment (PPE) both from domestic and international manufacturers, Tam said trying to find a way to reuse the masks and equipment the country is also important.
- 28 WATCH | Canada reviewing evidence about use of masks: Dr. Theresa Tam, Canada's chief medical officer of health, says isolation is most important, but wearing non-medical masks to protect others is okay.
- 29 Canada also exports raw materials used in the production of face masks to the United States.
- 30 Two doctors weigh in: Doctors answer your questions about the coronavirus, including whether people should be wearing homemade or cloth masks when they are outside.
- 31 But that could backfire when countries right on the front line "don't get the medical equipment they need," because "it's more likely the virus will spread in the future." WATCH | Dr. Samir Gupta explains what you should consider before putting on a mask against COVID-19: Dr. Samir Gupta provides crucial information about wearing a mask during the COVID-19 pandemic and what to think about before putting one on.

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- 28 Canada also exports raw materials used in the production of face masks to the United States.
- 29 During the spread of COVID-19, N95 masks have become popular products at pharmacies. (
- 30 We have to know when we can use our N95 masks, and when ... we can use paper masks. 3M faces pressure from Trump order to stop exporting N95 masks to Canada.
- 31 Among other things, the order mandates that 3M stop making N95 masks that are destined for customers in Canada and Latin America, and instead keep them in the U.S. \\"There is so much trade that goes back and forth in essential services, and it could end up hurting Americans as much as it hurts anybody else,\\" Prime Minister Justin Trudeau said today. \\"We're so low on N95 masks that we're expected to enter COVID-19 rooms with surgical masks, which are not effective against the virus.

# ‘Mask’ Summary’s Compression

- Example:
- 1. “Masks may give a person a false sense of security & are likely to increase the number of times a person will touch their own face – to adjust the mask, etc.”
- 2. “But it is less effective if you’re healthy and masks may give a person a false sense of security and increase face touching when the mask needs adjustment.”
- These 2 sentences were determined to be redundant and only the first sentence was added to the summary.

# 'Symptoms' Initial Results

- 1 Some researchers aim to learn more about transmission by trying to make invisible sneezes, coughs and breaths more visible.
- 2 Even though researchers aren't sure exactly how people without symptoms transmit the disease, the new evidence has prompted both U.S. and Canadian officials to suggest apparently healthy people wear masks in public to protect others - \"because it prevents you from breathing or speaking moistly on them,\" Prime Minister Justin Trudeau famously explained.
- 3 For most people, the coronavirus causes mild or moderate symptoms, such as fever and cough, that clear up in two to three weeks.
- 4 Even those who go on to experience more severe symptoms typically begin with mild symptoms, most often fever and a dry cough, although they can also include more unusual symptoms such as loss of taste and smell.
- 5 Typically, the cough lasts a week longer than the fever, a Chinese study found.
- 6 A key, more severe symptom that sometimes leads to hospitalization is shortness of breath or dyspnea, which shows up on average five to six days after symptoms began, Chinese researchers reported in medical journals *JAMA* and *The Lancet*.
- 7 Premier Brian Pallister says even people with mild symptoms, such as a runny nose or cough, can be tested.
- 8 Headaches, a cough, chills, sweats, loss of appetite and a fever over a six-day period that he said he managed as best he could with Tylenol.
- 9 On the mend Things began to gradually turn around for Woolridge, who returned to his initial symptoms of a mild fever and headache.
- 10 For most people, the new coronavirus causes mild or moderate symptoms, such as fever and cough that clear up in two to three weeks.
- 11 Health Minister Magnus Heunicke said the country has control of the epidemic, but he said if a person has a dry cough, fever or respiratory problems, they should call the doctor to be tested.
- 12 Most detailed projection yet For most people, the coronavirus causes mild to moderate symptoms such as fever and cough.
- 13 But more serious symptoms can develop, including difficulty breathing and pneumonia.
- 14 Those without fever or respiratory symptoms were given permission to leave their homes from 5:20 p.m. to 7 p.m. so they could cast their ballots after 6 p.m., when polling stations close for other voters.
- 15 Anyone in the province with fever, cough, shortness of breath, runny nose or sore throat will be tested for COVID-19. Russell said testing would be recommended for people exhibiting at least two of the following five symptoms: fever above 38 C, a new cough or worsening chronic cough, sore throat, runny nose, or headache.
- 16 COVID-19 can range from a cold-like illness to a severe lung infection, with common symptoms including fever, fatigue and a dry cough.
- 17 Other potential symptoms include a sore throat, runny nose and the loss of taste or smell.
- 18 In western Quebec: Outaouais residents should call 819-644-4545 if they have a cough or fever, whether they've travelled or not.
- 19 The government says it is expanding the list of symptoms being screened for COVID-19 to include fever, new or worsening cough, sore throat, runny nose and headache.
- 20 For most people, coronavirus causes mild or moderate symptoms such as fever and cough, and the vast majority recover.
- 21 For most people, the new coronavirus causes only mild or moderate symptoms, such as fever or coughing.
- 22 For most people, the coronavirus causes mild or moderate symptoms, such as a fever and cough that clear up in two to three weeks.
- 23 For most people, the virus causes mild to moderate symptoms such as fever and cough.
- 24 It will be really important for us to know whether a healthcare worker with a mild fever or a cough has COVID-19 or not.
- 25 By far the most common symptom with COVID-19 is fever and just about everyone that develops COVID-19 will have a fever.
- 26 And so again it's that combination of a fever and a cough.
- 27 It's that combination of symptoms, the onset of a fever with a cough that would be the most concerning.
- 28 For most people, the coronavirus causes mild or moderate symptoms, such as fever and cough.
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- 30 But more serious symptoms can develop, including difficulty breathing and pneumonia, which can lead to death.
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- 34 For most, the coronavirus causes only mild or moderate symptoms, such as fever and cough.
- 35 \"When Prime Minister Boris Johnson developed a cough and fever, he got a test for the novel coronavirus.
- 36 'Just a matter of time' before coronavirus comes to Ottawa, top doctor says Trudeau announces \$1B fund to respond to COVID-19 Etches urged anyone returning from international travel to self-monitor for symptoms including fever, coughing and shortness of breath, and to contact public health if they experience these symptoms.6:15 For most people, the new coronavirus causes only mild or moderate symptoms, such as fever and cough.

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- 24 'Just a matter of time' before coronavirus comes to Ottawa, top doctor says Trudeau announces \$1B fund to respond to COVID-19 Etches urged anyone returning from international travel to self-monitor for symptoms including fever, coughing and shortness of breath, and to contact public health if they experience these symptoms.6:15 For most people, the new coronavirus causes only mild or moderate symptoms, such as fever and cough.
- 25 But if you're having trouble breathing or experiencing a high fever that doesn't break, Gardam suggests going to the hospital for treatment, which could include oxygen and acetaminophen.
- 26 \"The coronavirus outbreak on the cruise ship Diamond Princess started with a single passenger who came aboard in late January with a slight cough, and then developed a fever shortly after disembarking, six days later.\" If somebody fits into those categories of exposure and they're feeling sick - so they have fever, cough - then we would want them as their first point of entry into the system to be calling Health Link,\\" Hinshaw said.
- 27 If travellers experience flu-related symptoms such as a fever or cough within 14 days of returning to Canada, they should self-isolate and call Health Link at 811 to arrange followup testing, Hinshaw said.\\" If somebody fits into those categories of exposure and they're feeling sick - so they have fever, cough - then we would want them as their first point of entry into the system to be calling Health Link,\\" Hinshaw said.
- 28 If travellers experience flu-related symptoms such as a fever or cough within 14 days of returning to Canada, they should self-isolate and call Health Link at 811 to arrange followup testing, Hinshaw said.
- 29 According to Brazil's health ministry, the man began to show symptoms compatible with the illness, such as a dry cough, throat pain and flu symptoms.
- 30 The health ministry had determined that people with fever and flu symptoms returning from Italy and six other countries should be considered suspected cases.

# ‘Symptom’ Summary’s Compression

- Example:
- 1. “Most patients have only mild or moderate symptoms such as a fever or cold, though severe symptoms including pneumonia can occur, especially in older adults and people with existing health problems.”
- 2. “While most people suffer only mild or moderate symptoms, such as fever or coughing, from COVID-19, the disease caused by the virus, for older adults and people with existing health problems, it can cause far more severe illness, including pneumonia.”
- These 2 sentences were determined to be redundant and only the first sentence was added to the summary.