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4-9-2020

### COVID 19 What You Need to Know

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#### Repository Citation

Wooley, D. P., Mariani, G., Woolley, C., & Luehrmann, L. M. (2020). COVID 19 What You Need to Know. *Shelter-in-Place (SiP) Lecture Series*.

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1

00:00:06,370 --> 00:00:17,750  
Yes and thanks I am we are I started  
recording this agent so don't forget.

2

00:00:17,750 --> 00:00:22,970  
And Laura you want to make sure  
that your mic, keep your mic muted for

3

00:00:22,970 --> 00:00:29,740  
the WebEx. And only are you dialed on  
with your phone?

4

00:00:42,050 --> 00:00:44,110

5

00:01:09,040 --> 00:01:13,640  
Okay we still have a lot of people  
joining just wanted to let you know

6

00:01:13,640 --> 00:01:17,860  
we're going to be delivering this via  
webinar format, for those of you just now

7

00:01:17,860 --> 00:01:23,390  
your mics will be muted so we can't hear  
them when you ask questions but

8

00:01:23,390 --> 00:01:29,240  
we will be having you chat with us via  
the chat feature in WebEx which you can

9

00:01:29,240 --> 00:01:33,830  
get to by kinda bubble icon when you  
move your mouse on to the web app screen.

10

00:01:33,830 --> 00:01:44,440  
It's just lack of the dots. You can chat with us through that.

11

00:02:03,020 --> 00:02:09,099  
I'd like to welcome everybody to the first  
series of Faculty Senate sponsored

12

00:02:09,099 --> 00:02:26,690  
lectures we're calling this the SiP  
lecture (Audio loss due to connectivity)

13  
00:02:26,690 --> 00:02:29,709  
(Audio loss due to connectivity)

14  
00:02:42,270 --> 00:02:44,870  
(Audio loss due to connectivity)

15  
00:02:53,340 --> 00:03:01,440  
...  
international enrollment management at

16  
00:03:01,440 --> 00:03:05,870  
Wright State University. He started in  
this (Audio loss due to connectivity)

17  
00:03:14,420 --> 00:03:20,010  
connection excuse me overseas  
international (audio loss) Marlo is a proud

18  
00:03:20,010 --> 00:03:25,290  
alumnus from Wright State. He graduated from the  
International Studies program with a

19  
00:03:25,290 --> 00:03:29,670  
focus in peace and diplomacy  
he later continued his education at

20  
00:03:29,670 --> 00:03:32,100  
Franklin University in market (Audio loss due to connectivity)

21  
00:03:32,100 --> 00:03:33,560  
(Audio loss due to connectivity)

22  
00:03:44,740 --> 00:03:50,660  
...grew up in Italy where most of his family  
been fighting the crisis. His presentation which will

23  
00:03:50,660 --> 00:03:55,270  
be second this afternoon will be  
illustrating the changes that were...

24

00:03:55,270 --> 00:04:00,830  
recruitment and he will also reflect on the  
timeline when it happened based on

25

00:04:00,830 --> 00:04:03,280  
Italy's (Audio loss due to connectivity)

26

00:04:21,070 --> 00:04:25,760  
Okay Thank You Laura. this is Dawn Wooley  
and I'm very pleased to be kicking off

27

00:04:25,760 --> 00:04:32,290  
our shelter-in-place lectures hosted by  
the Wright State Faculty Senate. We chose

28

00:04:32,290 --> 00:04:37,729  
coronavirus as the topic because it is  
the one that is dominating our lives at

29

00:04:37,729 --> 00:04:42,740  
the current time. And everyone is  
affected by this currently with the

30

00:04:42,740 --> 00:04:50,300  
pandemic. Today I would like to talk  
about what is a corona virus? Where did

31

00:04:50,300 --> 00:04:54,620  
it come from?  
How do we get it? How do we know we have

32

00:04:54,620 --> 00:05:01,280  
it? And do we need to take this seriously?  
Also how does it cause disease and what

33

00:05:01,280 --> 00:05:04,330  
can we do about it?

34

00:05:04,960 --> 00:05:11,570  
Corona virus is actually a whole family  
of viruses and there are viruses in this

35

00:05:11,570 --> 00:05:17,990  
family that infect animals and humans.  
There are seven corona viruses that

36

00:05:17,990 --> 00:05:23,990  
infect humans, our of which simply cause  
a common cold. Three other ones cause

37

00:05:23,990 --> 00:05:29,330  
more serious disease. The virus that  
we're dealing with right now in the

38

00:05:29,330 --> 00:05:35,479  
current pandemic has been officially  
named SARS-CoV-2 due to its similarity

39

00:05:35,479 --> 00:05:43,130  
with the original SARS virus. The COVID-  
19 actually refers to the disease. It

40

00:05:43,130 --> 00:05:49,669  
just simply is an acronym for corona  
virus disease 2019 because that's when

41

00:05:49,669 --> 00:05:55,789  
it started. In the lower right hand  
corner of the screen you can see an

42

00:05:55,789 --> 00:06:01,580  
electron microscope picture of the  
corona virus. Corona stands for "crown" and

43

00:06:01,580 --> 00:06:05,990  
that's how these viruses originally got  
their family name. When you look at it

44

00:06:05,990 --> 00:06:09,860  
under the microscope it looks like a  
crown because there are large protein

45

00:06:09,860 --> 00:06:14,349  
spikes sticking out on the outside of it.

46

00:06:15,639 --> 00:06:20,599

When a new microbe comes on the scene we want to know where it came from. And so

47

00:06:20,599 --> 00:06:25,970

generally what we do is we sequence the genome of the new organism and we

48

00:06:25,970 --> 00:06:31,610

compare it to other organisms that we have to sequence from. In this case the

49

00:06:31,610 --> 00:06:39,889

new virus is 88% related to to bat coronaviruses. It is 79%

50

00:06:39,889 --> 00:06:47,150

related to the original SARS coronavirus and 50% related to the MERS virus which

51

00:06:47,150 --> 00:06:53,000

is the "Middle East Respiratory Syndrome" virus. So the current thinking is that

52

00:06:53,000 --> 00:06:58,699

the new virus originally came from bats. That would be the animal reservoir

53

00:06:58,699 --> 00:07:04,849

for the new virus and they also believe that for the SARS original virus and the

54

00:07:04,849 --> 00:07:11,210

MERS that the reservoir is also a bat species. But there are intermediary host

55

00:07:11,210 --> 00:07:21,860

animals that can transmit the disease to humans. For the 2019 outbreak we want to

56

00:07:21,860 --> 00:07:27,770

know how the virus got from the animal to the human. So there are two possible

57

00:07:27,770 --> 00:07:34,340  
sources for this. We believe that it came  
from Wuhan China is simply based on the

58

00:07:34,340 --> 00:07:39,620  
epidemiology. When a new disease breaks  
out you look at where the initial cases

59

00:07:39,620 --> 00:07:44,870  
occurred and then y you're like a  
detective you're tracing every case back

60

00:07:44,870 --> 00:07:49,699  
to the original source. So that's why we  
believe it came from Wuhan because the

61

00:07:49,699 --> 00:07:54,589  
initial cases broke out there and then  
the spread could be traced back to Wuhan.

62

00:07:54,589 --> 00:08:01,789  
Now there's a couple possible ways  
that the virus could have gotten from

63

00:08:01,789 --> 00:08:07,939  
the animal species to the human. There is  
a live animal market in this city and

64

00:08:07,939 --> 00:08:13,400  
there are some very exotic animals there  
and that may have been the source how it

65

00:08:13,400 --> 00:08:19,490  
transmitted from animals to humans. There  
is also some suspicion about a biosafety

66

00:08:19,490 --> 00:08:25,339  
level 4 lab in Wuhan. There is no  
evidence whatsoever that they

67

00:08:25,339 --> 00:08:30,500  
synthesized this or intentionally

released it but this laboratory has been

68

00:08:30,500 --> 00:08:35,690  
studying SARS viruses ever since the  
original outbreak in 2002 and that would

69

00:08:35,690 --> 00:08:39,979  
make sense because they want to learn  
about it and study new SARS viruses

70

00:08:39,979 --> 00:08:45,709  
isolating them from different animals. So  
it is possible, in theory, that it was

71

00:08:45,709 --> 00:08:50,540  
from the lab by accident where made  
laboratory worker got infected or there

72

00:08:50,540 --> 00:08:54,830  
was some other type of release. And this  
has happened before where there have

73

00:08:54,830 --> 00:08:58,210  
been lab acquired infections for other  
diseases.

74

00:08:58,210 --> 00:09:03,529  
Now they do believe again that the  
possible origin is bats and for the new

75

00:09:03,529 --> 00:09:08,990  
SARS virus I'm showing on the right hand  
side is a Pangolin which is like an

76

00:09:08,990 --> 00:09:13,100  
exotic, scaly, ant eater type of an  
animal and they think that may have been

77

00:09:13,100 --> 00:09:21,290  
the intermediary host between the humans  
and the bats. How do we get it? When

78

00:09:21,290 --> 00:09:26,450



someone sneezes you can see here that many droplets are expelled and toward

79

00:09:26,450 --> 00:09:31,550  
the bottom some of the droplets are very large and they're falling out very

80

00:09:31,550 --> 00:09:38,360  
quickly to the ground. At the top some of the droplets seem to be flying up into

81

00:09:38,360 --> 00:09:42,860  
the air and being carried by the air currents. The smaller droplets will

82

00:09:42,860 --> 00:09:47,390  
become dried out before they hit the ground and then the virus would be left

83

00:09:47,390 --> 00:09:51,350  
floating in the air.  
Whereas the larger droplets would fall

84

00:09:51,350 --> 00:09:56,060  
to the ground before they dry and then they would dry on the ground and be

85

00:09:56,060 --> 00:10:01,640  
mixed in with things like dust. Studies at the National Institutes of Health's

86

00:10:01,640 --> 00:10:08,959  
showed that the virus could survive for up to three hours in the air. So we know

87

00:10:08,959 --> 00:10:15,470  
that one source of transmission is respiratory droplets. Fomites are

88

00:10:15,470 --> 00:10:21,230  
another. Now a Fomite is an inanimate object like dust or some object that can

89

00:10:21,230 --> 00:10:27,440  
transmit the disease indirectly. The  
virus has been found in respiratory

90  
00:10:27,440 --> 00:10:33,560  
secretions and saliva and there has been  
shedding noted in the stool but it is

91  
00:10:33,560 --> 00:10:38,630  
uncertain at this point what role  
that would play in the transmission. In

92  
00:10:38,630 --> 00:10:44,810  
the original SARS outbreak of 2002 they  
did find through investigation that that

93  
00:10:44,810 --> 00:10:49,070  
virus was spread in some high-rise  
apartment complexes through the sewer

94  
00:10:49,070 --> 00:10:52,550  
system. So there may have been some  
leakage from pipes that contributed to

95  
00:10:52,550 --> 00:10:59,510  
the transmission in one of those  
apartment complexes. How do we know we

96  
00:10:59,510 --> 00:11:05,780  
have it? So  
COVID-19 presents with a high fever. It

97  
00:11:05,780 --> 00:11:11,420  
would be over 100.4 degrees or  
greater than 99.4 degrees

98  
00:11:11,420 --> 00:11:18,200  
Fahrenheit if you're over 60. It would  
have a non-productive dry cough and the

99  
00:11:18,200 --> 00:11:25,430  
shortness of breath. Myalgia, muscle  
pain or fatigue. Now less common, someone

100  
00:11:25,430 --> 00:11:31,280  
might have a pharyngitis, a headache, a  
productive cough, gastrointestinal

101  
00:11:31,280 --> 00:11:40,490  
symptoms, or hemoptysis. For a further  
diagnosis the preferred specimen would

102  
00:11:40,490 --> 00:11:45,680  
be an upper respiratory specimen. A  
nasopharyngeal specimen. So this is why

103  
00:11:45,680 --> 00:11:49,190  
when we're watching these drive-through  
testing sites and they're putting the

104  
00:11:49,190 --> 00:11:53,270  
swab up the nose that's what they're  
trying to obtain. So that's the

105  
00:11:53,270 --> 00:12:00,650  
preferred specimen. Also one could test  
blood specimen. The test that we're

106  
00:12:00,650 --> 00:12:05,180  
hearing about in these drive through  
sites that they're working on quickly

107  
00:12:05,180 --> 00:12:11,870  
are the real-time reverse transcriptase  
RT-PCR tests. This is a test that

108  
00:12:11,870 --> 00:12:17,450  
is trying to detect the genetic material  
of the virus and it would show an active

109  
00:12:17,450 --> 00:12:23,870  
infection. They did some whole genome  
sequencing initially to identify the

110  
00:12:23,870 --> 00:12:29,900  
virus in the beginning. Now serology  
shows the presence of antibodies. This

111  
00:12:29,900 --> 00:12:34,460  
would indicate that someone has had an  
immune reaction against the virus and

112  
00:12:34,460 --> 00:12:39,530  
this would detect someone who had  
previously been exposed or has recovered

113  
00:12:39,530 --> 00:12:45,020  
from the infection and they can also  
provide some of these antibodies as

114  
00:12:45,020 --> 00:12:50,120  
we'll talk about later in the treatment  
to help other infected people. And the

115  
00:12:50,120 --> 00:12:55,370  
ELISA assay is an enzyme linked  
immunosorbent assay and these can be set

116  
00:12:55,370 --> 00:13:01,670  
up to detect either a protein from the  
virus or an antibody. And then lastly

117  
00:13:01,670 --> 00:13:10,730  
you could try to culture the virus from  
the blood sample. Do we need to take it

118  
00:13:10,730 --> 00:13:14,460  
seriously? Absolutely yes.  
This disease is highly

119  
00:13:14,460 --> 00:13:20,430  
contagious and deadly. As of late last  
night I was looking at the numbers and

120  
00:13:20,430 --> 00:13:25,980  
they have probably already changed. So in  
just three months we have 1.5 million

121  
00:13:25,980 --> 00:13:35,250  
confirmed cases, over 88,000 deaths and

184 countries and regions affected. You

122

00:13:35,250 --> 00:13:39,300  
may have heard the term in the news the  
"R0" and that's shown over here on

123

00:13:39,300 --> 00:13:43,770  
the right. What this refers to is how  
many people get the infection from any

124

00:13:43,770 --> 00:13:49,550  
given one person. Initially they  
estimated that for this new SARS virus

125

00:13:49,550 --> 00:13:56,600  
this was a 2.5 so for every infected  
person 2.5 people would get infected.

126

00:13:56,600 --> 00:14:02,580  
Some more recent estimates are showing a  
number possibly as high as 6. So it may

127

00:14:02,580 --> 00:14:06,750  
be more contagious than we initially  
thought but that is one of the reasons

128

00:14:06,750 --> 00:14:12,480  
why it is spreading so fast. And then  
lastly what we have learned at the

129

00:14:12,480 --> 00:14:16,770  
bottom of the slide you can see that  
people who are asymptomatic, they have no

130

00:14:16,770 --> 00:14:22,110  
idea they have the infection, no fever, no  
symptoms. They are shedding the virus and

131

00:14:22,110 --> 00:14:26,880  
transmitting it during this time. So all  
of these factors make it very highly

132

00:14:26,880 --> 00:14:35,880

contagious. How does it cause disease? So this virus grows in the lining of the

133

00:14:35,880 --> 00:14:41,940  
respiratory tract and it kills cells.  
When cells die, they break open and

134

00:14:41,940 --> 00:14:48,000  
release their contents and that causes a  
lot of inflammation. An some cases we see

135

00:14:48,000 --> 00:14:54,440  
a severe pneumonia form. And then  
cytokine production and inflammation

136

00:14:54,440 --> 00:15:00,060  
cause cells and fluid to build up in  
the lung. And the cytokine is a very

137

00:15:00,060 --> 00:15:04,470  
small protein produced by immune cells  
that helps the immune cells communicate

138

00:15:04,470 --> 00:15:09,750  
with each other. Now in the news media  
they're referring to the cytokine storm

139

00:15:09,750 --> 00:15:15,690  
and that's what they're referring to is  
the release of these proteins. And also

140

00:15:15,690 --> 00:15:21,770  
in some cases people can get a secondary  
bacterial infection.

141

00:15:24,630 --> 00:15:32,970  
The incubation time ranges from 2 to 12  
days. The average is about 6 days. So this

142

00:15:32,970 --> 00:15:39,030  
is why there is the 14-day quarantine  
period. We want to get just past the 12

143

00:15:39,030 --> 00:15:42,960  
day mark to make sure that if someone is  
coming out of quarantine that they do

144

00:15:42,960 --> 00:15:49,590  
not have the infection. Death is the  
result of progressive respiratory

145

00:15:49,590 --> 00:15:55,830  
failure in about 1 to 10 percent of  
cases. Now this is a very wide range for

146

00:15:55,830 --> 00:15:59,790  
the case fatality and the reason for  
that is that these are based on

147

00:15:59,790 --> 00:16:03,330  
estimates, and there may also be  
geographic differences, there could be

148

00:16:03,330 --> 00:16:08,940  
strain differences in different  
countries. So the case fatality rate is

149

00:16:08,940 --> 00:16:13,970  
obtained by taking the number of deaths  
and dividing it by the number of cases.

150

00:16:13,970 --> 00:16:18,330  
So the number of cases would be in the  
denominator but we don't exactly know

151

00:16:18,330 --> 00:16:22,590  
that number so we just have an estimate.  
We haven't tested everybody and as I

152

00:16:22,590 --> 00:16:26,670  
mentioned there are a lot of  
asymptomatic cases. And then the

153

00:16:26,670 --> 00:16:32,340  
numerator which is the number of deaths  
we still don't quite have a handle on

154  
00:16:32,340 --> 00:16:36,390  
that because some of the deaths are not  
being counted accurately or they're not

155  
00:16:36,390 --> 00:16:41,750  
being reported. So what can we do about  
it?

156  
00:16:41,750 --> 00:16:49,650  
So we could break the chain. So this is  
the chain of infection shown here. So one

157  
00:16:49,650 --> 00:16:54,660  
would have to have the agent which is  
the virus in an infected host. It has to

158  
00:16:54,660 --> 00:17:00,450  
have an exit point from that host, has to  
leave. It has to have a way to spread. It

159  
00:17:00,450 --> 00:17:04,709  
has to have an entry point for a new  
host and that new host has to be

160  
00:17:04,709 --> 00:17:11,040  
susceptible. So if you break any single  
link in this chain you can stop the

161  
00:17:11,040 --> 00:17:18,720  
infection. For example we can quarantine  
infected people. Exit point this is why

162  
00:17:18,720 --> 00:17:22,220  
they want someone infected to wear a  
mask so they don't expel those droplets.

163  
00:17:22,220 --> 00:17:27,570  
Means of spread, social distancing  
watching objects that you're touching,

164  
00:17:27,570 --> 00:17:33,600  
the hand hygiene. Entry point this is why  
now there's a recommendation for a face



165  
00:17:33,600 --> 00:17:38,220  
covering, we'll talk about that later.  
And susceptible hosts. We know that

166  
00:17:38,220 --> 00:17:42,780  
age groups, in particular the elderly are  
very susceptible so we want to protect

167  
00:17:42,780 --> 00:17:50,250  
those people even more. Masks. This is  
very controversial and in fact even the

168  
00:17:50,250 --> 00:17:54,600  
experts really can't agree and we've  
gotten many mixed messages from the

169  
00:17:54,600 --> 00:17:59,070  
media on this. And even myself I'm a  
little bit frustrated by some of those

170  
00:17:59,070 --> 00:18:03,570  
mixed messages. But the current  
recommendation is if possible,

171  
00:18:03,570 --> 00:18:08,730  
it's a recommendation, to cover your face  
in public. And on this slide I have a

172  
00:18:08,730 --> 00:18:12,870  
range of different types of options.  
Where at the top you could have a cloth

173  
00:18:12,870 --> 00:18:19,530  
face cover, or you could have a surgical  
mask shown in the top right, or you could

174  
00:18:19,530 --> 00:18:22,950  
then have a respirator.  
That's the N95 that we hear a lot about

175  
00:18:22,950 --> 00:18:27,630  
and that's shown in the middle picture

on the right. And then lastly you could

176

00:18:27,630 --> 00:18:32,909

have a powered air purifying respirator.  
As you go down this list you get an

177

00:18:32,909 --> 00:18:38,850

increasing protection, an increasing  
level of protection. When you start to

178

00:18:38,850 --> 00:18:42,630

get into the use of respirators and this  
is why there is some warning to the

179

00:18:42,630 --> 00:18:48,210

public, you have to know how to use them  
properly, you should be fit tested for it

180

00:18:48,210 --> 00:18:52,409

and be trained on how to use it, and in  
some cases people may have breathing

181

00:18:52,409 --> 00:18:55,919

problems so they should really have a  
medical clearance to wear them.

182

00:18:55,919 --> 00:18:59,940

Especially if they're wearing them for  
extended time periods. And there's also

183

00:18:59,940 --> 00:19:04,169

training on the use of them. If they're  
not used properly for example you could

184

00:19:04,169 --> 00:19:09,179

contaminate yourself. They're really not  
meant to be reused but since we already

185

00:19:09,179 --> 00:19:13,350

using them you have to be careful now  
that the outside is dirty and the inside

186

00:19:13,350 --> 00:19:19,470

is clean as you take it off and put it back on. So how can we protect ourselves?

187

00:19:19,470 --> 00:19:25,950

Well we should stay at home until the order is lifted. The social distancing is

188

00:19:25,950 --> 00:19:31,559

set at 6 feet and this is for those droplets. If people are just talking and

189

00:19:31,559 --> 00:19:36,929

breathing the 6 foot distance should protect us from those droplets. Now if

190

00:19:36,929 --> 00:19:41,220

there's a really explosive sneeze or cough, it could go beyond that, but the

191

00:19:41,220 --> 00:19:46,590

social distancing is for the normal activities. We also now we're seeing

192

00:19:46,590 --> 00:19:52,050

extreme hand hygiene. More hand washing than ever, the hand sanitizer.

193

00:19:52,050 --> 00:19:56,310

And you don't want to touch your face because if you're touching contaminated

194

00:19:56,310 --> 00:20:00,630

objects and then touching your face you're actually potentially inoculating

195

00:20:00,630 --> 00:20:07,320

yourself with the virus. As I mentioned the particles that are large that

196

00:20:07,320 --> 00:20:13,650

someone expels drop to the floor and fall into the dust. So it would be a good

197

00:20:13,650 --> 00:20:19,170  
idea to leave things like shoes at the  
door and also just to be careful with

198  
00:20:19,170 --> 00:20:24,210  
items entering the house. Like  
from the grocery store that you're

199  
00:20:24,210 --> 00:20:28,500  
buying, you would want to wipe things  
down if possible. And your mail for

200  
00:20:28,500 --> 00:20:32,190  
example. When you go to the mailbox or  
when you get boxes there's a lot of

201  
00:20:32,190 --> 00:20:36,660  
online ordering right now so people  
don't have to go to the store so you can

202  
00:20:36,660 --> 00:20:40,820  
leave the boxes outside for example.

203  
00:20:40,850 --> 00:20:46,620  
There is no vaccine. We hope that they  
will have one but it takes a while to

204  
00:20:46,620 --> 00:20:51,300  
develop new vaccines and there is no  
approved treatment for any of the SARS

205  
00:20:51,300 --> 00:20:57,180  
viruses. So right now we have some  
experimental drugs and treatments. We're

206  
00:20:57,180 --> 00:21:00,510  
hearing a lot about the  
hydroxychloroquine plus the azithromycin.

207  
00:21:00,510 --> 00:21:07,020  
Now this is a drug that has been  
used for malaria and other diseases like

208

00:21:07,020 --> 00:21:12,720  
lupus that's an autoimmune disease and  
it has actually shown and I've given one

209  
00:21:12,720 --> 00:21:16,200  
reference and I have some additional  
references if you would like to send me

210  
00:21:16,200 --> 00:21:21,420  
an email I can mail those to you where  
there is some antiviral effect. So I

211  
00:21:21,420 --> 00:21:25,080  
mentioned that there's a lot of  
inflammation in the lung. So this drug

212  
00:21:25,080 --> 00:21:30,090  
may help to modulate that inflammation,  
inhibit the virus, and then the

213  
00:21:30,090 --> 00:21:36,390  
azithromycin may come in to inhibit the  
secondary bacterial infection. This drug

214  
00:21:36,390 --> 00:21:41,340  
has been used for many decades and it  
could be scaled up very quickly and it's

215  
00:21:41,340 --> 00:21:47,190  
cheap and it's accessible. There are some  
very promising new treatments like the

216  
00:21:47,190 --> 00:21:52,440  
remdesivir and that's a drug that  
would block the replication, block

217  
00:21:52,440 --> 00:21:57,120  
the the virus's ability to copy itself.  
And that's very promising but it will

218  
00:21:57,120 --> 00:22:01,980  
still take a little bit longer to scale  
that one up. The convalescent plasma is

219

00:22:01,980 --> 00:22:05,940  
people who have recovered from the COVID  
19 we can take

220

00:22:05,940 --> 00:22:09,090  
they're antibodies and give them to  
other people who are infected and that

221

00:22:09,090 --> 00:22:15,480  
seems to be working. There's another drug  
listed here the camostat mesylate

222

00:22:15,480 --> 00:22:20,789  
which is a possible entry blocker, that  
is an encephalitis drug that may block

223

00:22:20,789 --> 00:22:25,769  
that virus from entering the cell. And  
then second to the bottom there are two

224

00:22:25,769 --> 00:22:30,899  
tongue twisters right here and these are  
monoclonal antibodies that also help to

225

00:22:30,899 --> 00:22:34,830  
block that inflammation that I talked  
about. And then there are many other

226

00:22:34,830 --> 00:22:39,659  
drugs being tested and I've given a few  
references at the bottom and I have more

227

00:22:39,659 --> 00:22:45,750  
if you would like those. So I would like  
to thank you for listening and I'm going

228

00:22:45,750 --> 00:22:50,309  
to end my presentation with these two  
photos one from the 1918 influenza

229

00:22:50,309 --> 00:22:56,039  
outbreak and one from the SARS in 2003  
which is very reminiscent of what we're

230  
00:22:56,039 --> 00:23:01,620  
seeing now. So despite all of our  
technology we are still relatively

231  
00:23:01,620 --> 00:23:06,990  
helpless against these new viruses. When  
a new virus enters a species for the

232  
00:23:06,990 --> 00:23:12,149  
first time it can be very aggressive and  
we have no immunity against it. We will

233  
00:23:12,149 --> 00:23:16,289  
be taking questions after the second  
presentation but if you do not get one

234  
00:23:16,289 --> 00:23:19,830  
of your questions answered or you would  
like some additional information I have

235  
00:23:19,830 --> 00:23:25,289  
my email address at the bottom of this  
slide. At this time I will pass the

236  
00:23:25,289 --> 00:23:36,710  
presentation over to my colleague. Thank  
you very much Dr. Wooley. Well Giancarlo

237  
00:23:44,390 --> 00:23:51,799  
in order to submit questions for both  
Dawn and Giancarlo to be able to address

238  
00:23:54,470 --> 00:24:06,350  
(audio loss) bottom part of your screen  
and you'll see all of the

239  
00:24:46,220 --> 00:24:57,800  
I'm having issues here. Oh here it is.

240  
00:25:05,620 --> 00:25:12,730  
Can you hear me? I'm sorry. All right.

241

00:25:12,940 --> 00:25:19,820

So my name is Giancarlo Mariani I am the Associate Director for international

242

00:25:19,820 --> 00:25:27,700

enrollment management and the University Center of International Education. So my

243

00:25:27,700 --> 00:25:34,040

presentation is not going to be as technical, as scientific and great as Dawn

244

00:25:34,040 --> 00:25:40,100

was. I just wanted to give you guys a little bit of a perspective, a Wright State

245

00:25:40,100 --> 00:25:46,100

perspective on to what has happened in these past weeks and also to give you a

246

00:25:46,100 --> 00:25:52,970

little bit of a perspective from an Italian that has an enormous and a family

247

00:25:52,970 --> 00:25:58,010

that is being affected right now and actually has had issues for quite some

248

00:25:58,010 --> 00:26:04,730

weeks. So when we began our recruitment efforts for this upcoming

249

00:26:04,730 --> 00:26:11,690

spring season we had a very good plan. We actually were starting with, these are

250

00:26:11,690 --> 00:26:17,240

just a list of the things that we actually had. We were, not only the

251

00:26:17,240 --> 00:26:26,179

UCIE but also the partners abroad in Turkey and in India were going to



252

00:26:26,179 --> 00:26:32,890  
attend an enormous amount of different  
tours and college visits and and

253

00:26:32,890 --> 00:26:39,290  
one-on-one sessions and visits to agents.  
If you think about it and you look over

254

00:26:39,290 --> 00:26:45,309  
here we started with China the having  
are a little bit of a

255

00:26:45,309 --> 00:26:49,940  
worrisome especially towards in January  
because that's where the crisis began/

256

00:26:49,940 --> 00:26:54,860  
But at this point everything was going  
and it was seemed like everything was

257

00:26:54,860 --> 00:27:00,410  
going to be fine. Now once it's hit  
towards the end of February, even if

258

00:27:00,410 --> 00:27:05,600  
everything was on the plate we had this  
misconception that once the warm weather

259

00:27:05,600 --> 00:27:10,730  
was going to come in we would be fine  
and we were attending all these

260

00:27:10,730 --> 00:27:15,410  
comforting webinars that we're  
telling us how you know the COVID 19 is

261

00:27:15,410 --> 00:27:22,549  
not as lethal or as bad as  
what we've had in the past. Influenza has

262

00:27:22,549 --> 00:27:27,649  
done much more damage than COVID 19. So

we don't need to worry about our trips

263

00:27:27,649 --> 00:27:31,969

we don't need to worry about our  
recruitment it should all be fine. Now I

264

00:27:31,969 --> 00:27:35,929

have a section over there that says  
family in Italy. This is where my family

265

00:27:35,929 --> 00:27:43,460

started giving me a little bit of a  
worry. There was the

266

00:27:43,460 --> 00:27:48,889

the North that started seeing it and  
they it just it was rapidly increasing

267

00:27:48,889 --> 00:27:53,509

and increasing and increasing and just  
it was just this unease sensation that

268

00:27:53,509 --> 00:27:58,070

you were getting from your family. And I  
have family from the top of the boot all

269

00:27:58,070 --> 00:28:04,460

the way down to the heel. So it just it  
was from north to south the message was

270

00:28:04,460 --> 00:28:10,609

the same. This does not seem like is  
gonna go away. I don't know if you should be

271

00:28:10,609 --> 00:28:20,509

traveling. So then March 5th rolls around  
and this is where Italy starts closing

272

00:28:20,509 --> 00:28:24,799

their schools. I get a message from my  
nephew that started his

273

00:28:24,799 --> 00:28:31,249

freshman year in college in Rome and he said "They sent us home. They told us

274

00:28:31,249 --> 00:28:36,259  
that we have to do everything online." And Wright State was very good

275

00:28:36,259 --> 00:28:41,109  
and very prepared to be making that transition from in person to online.

276

00:28:41,109 --> 00:28:47,029  
However in Italy that was something that is not conventional. Not every school is

277

00:28:47,029 --> 00:28:55,190  
capable or have the bandwidth to be able to have live virtual events. So it was

278

00:28:55,190 --> 00:29:02,299  
a massive push and it was an overnight idea. Now this is starting, it just seemed

279

00:29:02,299 --> 00:29:06,309  
like from that Italy closure of the schools it just became a chain reaction.

280

00:29:06,309 --> 00:29:12,919  
So study abroad we had to make sure that our students were safe. Not only here in

281

00:29:12,919 --> 00:29:17,690  
in the States but also abroad. So we did everything that we

282

00:29:17,690 --> 00:29:22,399  
could and the study abroad team did incredible to make sure to accommodate

283

00:29:22,399 --> 00:29:27,729  
all of our students here and abroad. Then we had to create work from home

284

00:29:27,729 --> 00:29:32,029  
situation. We had to make sure that our  
admissions team was going through the

285  
00:29:32,029 --> 00:29:35,130  
same steps  
in that it could be as seamless as

286  
00:29:35,130 --> 00:29:40,050  
possible to create the environment that  
they needed to be able to process all

287  
00:29:40,050 --> 00:29:45,600  
the applications that we naturally  
normally process. So we have to figure

288  
00:29:45,600 --> 00:29:49,890  
out their gear but we also have to  
implement teams as a group to be

289  
00:29:49,890 --> 00:29:54,150  
able to communicate with each other when applications issues are

290  
00:29:54,150 --> 00:29:59,460  
starting but also we need to make sure  
that we talk to each other at least once

291  
00:29:59,460 --> 00:30:05,730  
a day or at least continuously,  
seamlessly, so that everything is just

292  
00:30:05,730 --> 00:30:10,950  
like if we were in the office. So right  
now essentially what we have is it's

293  
00:30:10,950 --> 00:30:15,180  
instead of having somebody coming up and  
coming into my office and asking me a

294  
00:30:15,180 --> 00:30:19,740  
question or going to another office to  
ask a question they will turn around in

295

00:30:19,740 --> 00:30:26,370  
shadowing teams. It's almost like a  
high-tech door how about

296  
00:30:26,370 --> 00:30:31,440  
that. We also started looking at  
surrogate solutions. So the surrogate

297  
00:30:31,440 --> 00:30:38,070  
solution was trying to find people that  
will go into the tours and to represent

298  
00:30:38,070 --> 00:30:43,380  
Sinclair, I'm sorry Wright State. So once  
we do have that option to go and talk to

299  
00:30:43,380 --> 00:30:49,220  
have somebody to go and talk for Wright  
State, we started looking at places.

300  
00:30:49,220 --> 00:30:55,050  
Shortly and very briefly these options  
drop down because the COVID-19 was

301  
00:30:55,050 --> 00:31:02,820  
starting to you becoming more and more  
and more and more like a pandemic. At

302  
00:31:02,820 --> 00:31:08,640  
this point March 15 comes around Italy  
is shut down and we are completely all

303  
00:31:08,640 --> 00:31:14,460  
of our recruitment is canceled. I'd like  
to mention just one tour that was

304  
00:31:14,460 --> 00:31:18,150  
cancelled and it was cancelled for  
Brazil and it was cancelled because the

305  
00:31:18,150 --> 00:31:22,830  
people just did not want to have these  
schools did not feel safe to having

306  
00:31:22,830 --> 00:31:28,320  
people from other nations to come and  
talk to their kids. So it wasn't just the

307  
00:31:28,320 --> 00:31:33,210  
worry or the pandemic that came in, it's  
just as this is where people just

308  
00:31:33,210 --> 00:31:38,340  
started scrambling and trying to adapt  
and we adopted as well. We converted all

309  
00:31:38,340 --> 00:31:44,040  
of our recruitment a lot in admissions  
into an office in a home office. We

310  
00:31:44,040 --> 00:31:47,360  
became armchair recruiters an armchair  
became our

311  
00:31:47,360 --> 00:31:53,350  
and we converted our our fairs, our  
college fairs have become virtual fairs.

312  
00:31:53,350 --> 00:31:59,180  
Our one-on-ones with students have  
pretty much become webinars and now we

313  
00:31:59,180 --> 00:32:03,650  
are right now doing a ton of them. Our  
partner abroad has set up at

314  
00:32:03,650 --> 00:32:07,640  
least four of them for us and I believe  
we have another three for another for

315  
00:32:07,640 --> 00:32:11,930  
our one am based in Turkey. So we are  
definitely making sure that we make a

316  
00:32:11,930 --> 00:32:16,610  
social media presence and that we don't  
do that just on Facebook but

317  
00:32:16,610 --> 00:32:21,530  
we're trying to do that on Twitter and a  
little bit on Instagram as well. This is

318  
00:32:21,530 --> 00:32:28,370  
not just by posting or just making  
visible or commenting or responding to

319  
00:32:28,370 --> 00:32:34,660  
people. We turn around and made our  
operation virtually OCIE essentially. Our

320  
00:32:34,660 --> 00:32:41,960  
programming is online. Our live events  
are online. We make sure I've personally

321  
00:32:41,960 --> 00:32:47,660  
have had one-on-ones with students  
online using WebEx. So everything has

322  
00:32:47,660 --> 00:32:52,490  
gone online. The virtual of admissions  
team is like I was saying. We can go

323  
00:32:52,490 --> 00:32:58,520  
ahead and use teams as to exchange of  
the thoughts and trying to strategize

324  
00:32:58,520 --> 00:33:05,330  
for our missions days or just what we're  
going to do in the near future. Now

325  
00:33:05,330 --> 00:33:11,210  
moving forward is where we are going to  
attempt different things. So we're going

326  
00:33:11,210 --> 00:33:16,010  
to try to make a close connection with  
all the college departments this is by

327  
00:33:16,010 --> 00:33:20,690  
inviting them to events and by pretty

much putting them on a stage to show the

328

00:33:20,690 --> 00:33:25,280

world what great faculty Wright State  
has. We need to emerge from the noise.

329

00:33:25,280 --> 00:33:29,930

Obviously we are not the only school  
that is actually pointing to recruit

330

00:33:29,930 --> 00:33:34,430

international students and that it wants  
to make an impression. So we need to do

331

00:33:34,430 --> 00:33:42,320

targeted posts. In the end point  
essentially what the information as is

332

00:33:42,320 --> 00:33:48,230

going out and what actually students are  
worried about right now. We need to be

333

00:33:48,230 --> 00:33:53,600

not only emotionally intelligent but  
also digitally intelligent. We need to

334

00:33:53,600 --> 00:33:57,710

make sure to understand what the student  
is needing and we need to make sure to

335

00:33:57,710 --> 00:34:02,470

answer it in a correct way.  
You have to understand that right now we

336

00:34:02,470 --> 00:34:09,010

are in a stay at home order. We are, in  
one way we are fortunate. But there are

337

00:34:09,010 --> 00:34:13,990

people that are stuck in their houses,  
they have been there for weeks and we

338

00:34:13,990 --> 00:34:17,139



need to make sure to keep that in  
consideration in any communication that

339

00:34:17,139 --> 00:34:22,780  
is going out. Just to get it in a happier  
note, I have had a Nepalese student that

340

00:34:22,780 --> 00:34:28,750  
is contacted us through our whatsapp in  
and it was enough time and I just was

341

00:34:28,750 --> 00:34:33,639  
like what time "What time is it back  
there? It's 4 o'clock in the morning." Yeah.

342

00:34:33,639 --> 00:34:36,970  
You're locked at home, there's not that  
much that you can do so you need to be

343

00:34:36,970 --> 00:34:40,990  
able to understand that that situation  
is coming. So when even you're ready to

344

00:34:40,990 --> 00:34:45,730  
log off you go to your family because  
your day is done you need to be able to

345

00:34:45,730 --> 00:34:51,389  
make sure that that student is going to  
be fine with you leaving your desk.

346

00:34:51,389 --> 00:34:57,550  
Now live events are no longer live. We  
can't be in person. We can't see each

347

00:34:57,550 --> 00:35:01,780  
other. It would be very weird if  
everybody's going to be in an arena and

348

00:35:01,780 --> 00:35:06,130  
everybody's applying social distancing.  
We would be, I would really like to see

349

00:35:06,130 --> 00:35:11,110  
that. So everything is going live in  
using platforms like WebEx but also

350  
00:35:11,110 --> 00:35:15,580  
Facebook live is going to be our friend.  
We want to make sure that our students

351  
00:35:15,580 --> 00:35:21,940  
are shown and are promoted around the  
world. We have a great great student body

352  
00:35:21,940 --> 00:35:26,560  
and we need to show it to everybody and  
we need to make sure that those students

353  
00:35:26,560 --> 00:35:32,320  
abroad are able to make a connection  
with the ones here with us. Now I wanted

354  
00:35:32,320 --> 00:35:35,770  
to show you guys a little bit of what  
we've done so the picture will be here

355  
00:35:35,770 --> 00:35:44,710  
on the top the top left that is a  
webinar that Dr. Raymer has done for us

356  
00:35:44,710 --> 00:35:54,460  
in partnership with our partner  
abroad in India. This is

357  
00:35:54,460 --> 00:35:59,170  
the first one that we have done and  
as was very successful Dr. Raymer

358  
00:35:59,170 --> 00:36:04,270  
actually wanted to take this opportunity  
to thank him because this was actually

359  
00:36:04,270 --> 00:36:09,490  
it was awesome. You could just tell  
that the student professor was extremely

360  
00:36:09,490 --> 00:36:14,200  
passionate about the topic. And this  
was helping not only

361  
00:36:14,200 --> 00:36:18,520  
Wright State students, it is putting the brand  
out there but it's for education USA

362  
00:36:18,520 --> 00:36:24,490  
and for education USA you're helping  
students not only for Wright State but

363  
00:36:24,490 --> 00:36:30,010  
for everyone that wants to come to the  
United States. And us as international

364  
00:36:30,010 --> 00:36:34,960  
educators we're very thankful debt Dr.  
Raymer actually stepped up and we hope

365  
00:36:34,960 --> 00:36:38,859  
that we can see so many more they come  
up and actually help us with these type

366  
00:36:38,859 --> 00:36:42,970  
of webinars. We also created and this is  
actually something that the student

367  
00:36:42,970 --> 00:36:46,329  
worker is that have collected this  
information for us.

368  
00:36:46,329 --> 00:36:50,770  
So sorry if it cut out a little bit but  
over here on the left you will see a

369  
00:36:50,770 --> 00:36:55,920  
post that was on our page on our  
Facebook page our admissions page and

370  
00:36:55,920 --> 00:37:02,380  
this is where the student has  
essentially told us what the situation

371  
00:37:02,380 --> 00:37:07,869  
is right now and how it is being able to  
Wright State for adjusting. It is important

372  
00:37:07,869 --> 00:37:15,250  
to us to show students abroad debt  
although the COVID-19 is maybe closing

373  
00:37:15,250 --> 00:37:20,170  
on campus it is not shutting us down.  
We are here and we are here to help and

374  
00:37:20,170 --> 00:37:25,150  
we are here to help every single student.  
So it was important to me to into the

375  
00:37:25,150 --> 00:37:30,579  
UCIE to promote our students and to show  
them what they are doing right now.

376  
00:37:30,579 --> 00:37:37,869  
We have also done live events um this is an  
example for our pizza event. I was the

377  
00:37:37,869 --> 00:37:44,410  
one that did it. We streamed it live on  
our UCIE page and we found that we find

378  
00:37:44,410 --> 00:37:47,890  
out, and it wasn't the first one we  
actually have a student doing it and we

379  
00:37:47,890 --> 00:37:52,900  
hope to do it more I'm not sure that  
we're going into it more, but

380  
00:37:52,900 --> 00:37:57,400  
it was one of those things at the end of  
the week where at least you could have a

381  
00:37:57,400 --> 00:38:03,040  
minute to sit on your phone and watch

somebody that is familiar that is giving

382

00:38:03,040 --> 00:38:07,060

you something that is not an amount of information. I mean

383

00:38:07,060 --> 00:38:11,319

just the fact of sitting there and being able to watch me playing with doe

384

00:38:11,319 --> 00:38:16,710

messing up my pizza was fine. It turned out good though I promise you that. Now

385

00:38:16,710 --> 00:38:21,550

also I wanted to point out this over here and this is also made from one of

386

00:38:21,550 --> 00:38:26,960

our student workers. We thought that making, it is not fair

387

00:38:26,960 --> 00:38:32,030

and it's not good to make fun of the virus. It is not, but it is important that

388

00:38:32,030 --> 00:38:38,089

we show our students that laughter is important. Again we need to think about

389

00:38:38,089 --> 00:38:43,250

students that are staying at home that are close in their doors. If we can give

390

00:38:43,250 --> 00:38:48,920

them one smile, just one smile, we've made a victory for that day. And if we do get

391

00:38:48,920 --> 00:38:53,240

that one smile in a perspective of recruiting they will more likely to

392

00:38:53,240 --> 00:39:02,660

remember our our Wright State brand. So I

hope that this was official. I

393

00:39:02,660 --> 00:39:09,140  
gave you a little bit of a perspective. I  
wanted to assure everybody that my

394

00:39:09,140 --> 00:39:14,900  
family back home is all fine. We were  
lucky enough that my small town did not

395

00:39:14,900 --> 00:39:22,520  
get completely affected by the COVID-19.  
But it's there so stay safe and stay

396

00:39:22,520 --> 00:39:27,460  
home. Now any questions I'm free to  
answer.

397

00:39:32,990 --> 00:39:39,290  
This is Don Wooley I am seeing some  
questions command and I will go ahead

398

00:39:39,290 --> 00:39:45,680  
and field a couple of questions in the  
order that they came in. One question is,

399

00:39:45,680 --> 00:39:52,520  
if one recovers from COVID-19, what do we  
know about their immunity and how would

400

00:39:52,520 --> 00:39:58,849  
that immunity compare to someone who has  
received a vaccine when developed? So if

401

00:39:58,849 --> 00:40:05,030  
someone recovers from COVID-19 they have  
some immunity. We don't know how long

402

00:40:05,030 --> 00:40:09,589  
that immunity will last but they would  
have immunity at least in the short-term.

403

00:40:09,589 --> 00:40:14,270

that's one of the things we have to study is is the memory response. If

404

00:40:14,270 --> 00:40:19,460  
someone is vaccinated they will also be protected and develop a memory response

405

00:40:19,460 --> 00:40:23,780  
but we don't know how long that will last either. Now in general when someone

406

00:40:23,780 --> 00:40:28,670  
recovers from a live infection, and even some vaccines that are live attenuated

407

00:40:28,670 --> 00:40:35,000  
versions of the virus, that tends to be a stronger immune response than something

408

00:40:35,000 --> 00:40:40,040  
like a kill vaccine. Which would generate enough immunity to protect but

409

00:40:40,040 --> 00:40:47,240  
again that natural infection generally gives a stronger immune response. And if

410

00:40:47,240 --> 00:40:51,619  
I have not fully answered that you can feel free to type in some follow-up

411

00:40:51,619 --> 00:40:59,240  
questions and I think there was another one here is, are there good stats on how

412

00:40:59,240 --> 00:41:03,140  
much more susceptible someone with the pre-existing condition like an elderly

413

00:41:03,140 --> 00:41:08,299  
person or someone with COPD or diabetes would be relative to a healthy person

414

00:41:08,299 --> 00:41:11,869  
like two or three whatever times more  
likely to die?

415  
00:41:11,869 --> 00:41:17,720  
Well we're gathering that data right now  
so I I don't have the numbers at my

416  
00:41:17,720 --> 00:41:23,270  
fingertips and I'm not sure anyone has  
accurate numbers right now but from what

417  
00:41:23,270 --> 00:41:28,369  
I'm seeing that people who are younger  
that end up in the hospital or the ICU

418  
00:41:28,369 --> 00:41:32,150  
or die,  
many of them do have pre-existing

419  
00:41:32,150 --> 00:41:37,730  
conditions. Not all of them, but some. I  
would predict that when the numbers are

420  
00:41:37,730 --> 00:41:42,200  
all in that we will see that people with  
pre-existing conditions have a

421  
00:41:42,200 --> 00:41:46,580  
statistically significant higher rate of  
complications and death.

422  
00:41:46,580 --> 00:41:53,030  
I just don't know what the exact numbers  
will be yet. And Giancarlo would you

423  
00:41:53,030 --> 00:42:00,400  
like to take a question or two? Sure, I've  
seen a few.

424  
00:42:01,130 --> 00:42:08,300  
Let me see there was one so the  
difference between how was the US



425  
00:42:08,300 --> 00:42:15,770  
response COVID-19 crisis deferred  
from the response in Italy. The response

426  
00:42:15,770 --> 00:42:23,690  
I have to say was surprisingly slower.  
The Prime Minister, there was obviously

427  
00:42:23,690 --> 00:42:26,840  
in Italy there was a little bit they  
could have done something, they could

428  
00:42:26,840 --> 00:42:33,740  
have done it sooner. But once they started seeing that there was

429  
00:42:33,740 --> 00:42:39,280  
much more cases coming in the  
Prime Minister actually acted very

430  
00:42:39,280 --> 00:42:46,280  
decisively and started slowly closing  
down. We are fortunate that Ohio has a

431  
00:42:46,280 --> 00:42:51,650  
governor, in my opinion at least, that has  
a governor that has stepped up and

432  
00:42:51,650 --> 00:42:57,800  
decided to follow the lead of the people  
that actually have the science behind

433  
00:42:57,800 --> 00:43:03,350  
them. I mean I I have to say that  
most of us, and like I'm going to make a

434  
00:43:03,350 --> 00:43:06,890  
generalization, that all of us kind of  
like undertook this. And I was trying to

435  
00:43:06,890 --> 00:43:10,970  
explain that in my presentation, we  
didn't really think of this as being

436  
00:43:10,970 --> 00:43:17,060  
that big of a deal. I remember saying the  
same thing to my family in Italy. But

437  
00:43:17,060 --> 00:43:23,150  
once it it was real and we we needed to  
do something

438  
00:43:23,150 --> 00:43:26,780  
Italy stepped up and did it and I really  
wanted to say that our governor has done

439  
00:43:26,780 --> 00:43:30,910  
the same and I'm very grateful of it.

440  
00:43:31,270 --> 00:43:37,600  
Then there was there's large cultural  
differences that have been impacted by the

441  
00:43:37,600 --> 00:43:46,270  
COVID-19. Coming up Friday is  
Good Friday right and Sunday is Easter.

442  
00:43:46,270 --> 00:43:53,330  
We're Catholic it's kind of a big deal.  
So we we are planning for example

443  
00:43:53,330 --> 00:43:58,760  
ourselves say through some apps I don't  
want to do any commercials here but

444  
00:43:58,760 --> 00:44:03,940  
through some apps were  
much trying to make a family dinner. I

445  
00:44:03,940 --> 00:44:08,089  
have some family here that we're going  
to do it but we're going to do it also

446  
00:44:08,089 --> 00:44:16,609  
with Italy back home and it's strange.  
We're gonna make it work and one big

447

00:44:16,609 --> 00:44:21,319  
thing is the kissing and hugging. You  
know, Italians do two kisses one on each

448

00:44:21,319 --> 00:44:29,599  
cheek. We hug everything. We hug our walls  
if we could. It's been a struggle I mean

449

00:44:29,599 --> 00:44:38,839  
I think on March 5th  
when the schools were closed, the Prime

450

00:44:38,839 --> 00:44:46,339  
Minister has made it clear that all  
college students should stay home and

451

00:44:46,339 --> 00:44:51,829  
not to go see their grandparents. Now  
it's already hard for every grandparent

452

00:44:51,829 --> 00:44:58,819  
but for an Italian grandparent it's like  
oh my god. So it definitely did crush a

453

00:44:58,819 --> 00:45:07,130  
lot of souls there but it slowly  
became understood that it just it was

454

00:45:07,130 --> 00:45:19,729  
needed. I don't see any. Go for it and I  
can go and find one. I see a question about

455

00:45:19,729 --> 00:45:24,229  
what do we know about contamination on  
surfaces and what would you recommend we

456

00:45:24,229 --> 00:45:31,039  
do with packages, items we purchase? So  
there can be surface contamination and

457

00:45:31,039 --> 00:45:35,210  
it can spread that way as I mentioned. If  
you touch a contaminated surface and

458

00:45:35,210 --> 00:45:42,289  
then touch your face you can inoculate  
yourself. There are data coming

459

00:45:42,289 --> 00:45:48,079  
out on different types of surfaces. So on  
cardboard some of the data says 24 hours

460

00:45:48,079 --> 00:45:54,529  
and longer on plastic like three days,  
stainless steel, also maybe about three

461

00:45:54,529 --> 00:46:02,150  
days. So when I recommend and what I'm  
doing is for example with my mail I use

462

00:46:02,150 --> 00:46:06,469  
gloves to get my mail and I open up the  
envelopes and I throw the outside away

463

00:46:06,469 --> 00:46:12,170  
and I leave the contents sitting in my  
garage for three days. And then from

464

00:46:12,170 --> 00:46:16,180  
there I will bring it into the house  
if I need to pay certain bills. And

465

00:46:16,180 --> 00:46:21,259  
another option for people is to just use  
the online billing to avoid the paper

466

00:46:21,259 --> 00:46:27,410  
completely. Now for the groceries if it's  
perishable like a carton of milk I will

467

00:46:27,410 --> 00:46:31,819  
have a disinfectant wipe and I will wipe  
that down before bringing it into the

468

00:46:31,819 --> 00:46:36,619  
refrigerator and for like the canned

goods and things I can leave them set in

469

00:46:36,619 --> 00:46:41,359

my garage for a few days or until I need them and then I will start bringing them

470

00:46:41,359 --> 00:46:45,680

into the house. It's hard to wipe down everything especially all the the

471

00:46:45,680 --> 00:46:50,029

cardboard boxes like cereal boxes and things you can wipe them but it gets to

472

00:46:50,029 --> 00:46:54,319

be quite a lot. So you might wipe down two things that have to be brought in

473

00:46:54,319 --> 00:46:59,299

right away and let the other one set because the virus has a membrane on the

474

00:46:59,299 --> 00:47:04,430

outside that's like the membrane of our cells and it's a lipid bilayer, which is

475

00:47:04,430 --> 00:47:10,099

a fatty layer, and it is susceptible to drying and that's why in these tests the

476

00:47:10,099 --> 00:47:14,960

virus will die over time. But it does survive longer depending on the surface.

477

00:47:14,960 --> 00:47:21,769

So also the packages because so many people you know use things like Amazon

478

00:47:21,769 --> 00:47:26,239

now and even more so because they don't want to go into stores. Take the contents

479

00:47:26,239 --> 00:47:30,739

out of the box and leave the boxes  
outside and then do as I recommended

480

00:47:30,739 --> 00:47:34,519  
with the contents. If you can wipe them  
down wipe them down or if you can let

481

00:47:34,519 --> 00:47:38,749  
them set for a few days then do that and  
maybe then even still wipe them down

482

00:47:38,749 --> 00:47:43,970  
depending on what the material is made  
out of. So again that will help to keep

483

00:47:43,970 --> 00:47:48,440  
you a little bit safer and there was  
another question on did they use the

484

00:47:48,440 --> 00:47:55,249  
chloroquine in the SARS 2002. They did  
not because SARS, the original SARS virus

485

00:47:55,249 --> 00:48:01,970  
broke out in 2002 and that epidemic  
ended relatively quickly in 2003. So they

486

00:48:01,970 --> 00:48:06,220  
did not really have time to explore all  
of the different drugs and the

487

00:48:06,220 --> 00:48:10,249  
scientific paper that I found on  
chloroquine with the original SARS

488

00:48:10,249 --> 00:48:15,680  
virus was published later like in 2005  
and so I think after that original

489

00:48:15,680 --> 00:48:20,480  
outbreak they were investigating many  
different drugs and then they probably

490

00:48:20,480 --> 00:48:24,289  
were following up on it but since the  
SARS virus didn't come back they

491  
00:48:24,289 --> 00:48:27,960  
probably maybe there was an issue with  
getting funding because

492  
00:48:27,960 --> 00:48:31,260  
people don't think it's going to be a  
problem. We never envisioned that we

493  
00:48:31,260 --> 00:48:35,910  
would have this other SARS virus. But we  
did learn that it worked and then they

494  
00:48:35,910 --> 00:48:39,990  
actually have tested the  
hydroxychloroquine against the new SARS

495  
00:48:39,990 --> 00:48:46,640  
virus the SARS CoV-2 and found that it  
inhibits that virus in the laboratory.

496  
00:48:46,760 --> 00:48:51,589  
Giancarlo would you like to take another  
question or two?

497  
00:48:58,619 --> 00:49:04,380  
I think you might be muted. I don't think

498  
00:49:04,380 --> 00:49:11,250  
see any questions for me okay. If I do...  
Okay I'll work on some more I haven't

499  
00:49:11,250 --> 00:49:17,190  
gone for it list another question is  
once we overcome the peak of the

500  
00:49:17,190 --> 00:49:22,019  
pandemic how do we return back to a new  
normal? Will there be why testing across

501

00:49:22,019 --> 00:49:26,640  
the U.S. to see if someone has immunity  
and will those tests be effective and

502

00:49:26,640 --> 00:49:33,420  
keeping us safe? So yes I do think  
there will be testing and what we're

503

00:49:33,420 --> 00:49:37,319  
hearing about in the news right now is a  
lot of excitement about the the antibody

504

00:49:37,319 --> 00:49:41,279  
tests and as I mentioned in my  
presentation once someone's been exposed

505

00:49:41,279 --> 00:49:46,650  
they develop antibodies and so you can  
tell if someone has been exposed or has

506

00:49:46,650 --> 00:49:52,380  
had a past infection. So they are  
presumably immune again we don't know

507

00:49:52,380 --> 00:49:57,180  
for how long. Sometimes when we're  
vaccinated as children we have a

508

00:49:57,180 --> 00:50:01,740  
lifelong immunity. So that remains to be  
seen but we know that there would be

509

00:50:01,740 --> 00:50:06,359  
some immunity for a certain period of  
time certainly long enough to get back

510

00:50:06,359 --> 00:50:13,079  
to work while we work on developing a  
vaccine and so I think that what we'll

511

00:50:13,079 --> 00:50:19,349  
see though is more kind of elbow bumps  
and less handshakes. I think people may



512  
00:50:19,349 --> 00:50:24,390  
still wear some face coverings. I think  
that's going to be a way of life and I

513  
00:50:24,390 --> 00:50:29,039  
think that maybe the way people buy  
things so for example some of the

514  
00:50:29,039 --> 00:50:32,819  
grocery stores are letting you put  
online orders in, where people don't have

515  
00:50:32,819 --> 00:50:37,170  
to go into the store. Now that people are  
using those services they may continue

516  
00:50:37,170 --> 00:50:40,200  
to use them because maybe they find  
they're actually saving time and

517  
00:50:40,200 --> 00:50:45,450  
convenience so I think things will be  
different but I think that we will get

518  
00:50:45,450 --> 00:50:52,140  
back to work and especially this new  
antibody testing will help a lot. Another

519  
00:50:52,140 --> 00:50:57,180  
question is the zinc as a therapeutic. I  
think that the zinc from what I'm

520  
00:50:57,180 --> 00:51:01,529  
reading may be a good adjunct to some of  
the other therapies for example I've

521  
00:51:01,529 --> 00:51:05,880  
heard it discussed with regard to the  
hydroxychloroquine and azithromycin.

522  
00:51:05,880 --> 00:51:12,329  
So the zinc may go into the cell  
as the virus is trying to enter and it

523  
00:51:12,329 --> 00:51:16,920  
might block one of those early steps of  
the replication cycle. We don't know the

524  
00:51:16,920 --> 00:51:20,620  
exact mechanism yet  
we suspect it's going to be early on in

525  
00:51:20,620 --> 00:51:24,730  
the virus replication cycle. So I think  
it could be a good adjunct but by itself

526  
00:51:24,730 --> 00:51:32,460  
it might not be enough. And now I'm just  
going to look further down the list here.

527  
00:51:40,869 --> 00:51:46,779  
It's actually a question for Dr. Luehrmann  
on the impact, what impact does national

528  
00:51:46,779 --> 00:51:49,690  
leadership and government structure  
brought it home impact the country

529  
00:51:49,690 --> 00:51:55,259  
response? I think she was having some  
audio problems but I'm would you like to

530  
00:51:55,259 --> 00:52:01,119  
address that Laura  
actually I'm gonna punt that one my

531  
00:52:01,119 --> 00:52:05,109  
colleagues from the School of Public and  
International Affairs Dr. Lee Hannah.

532  
00:52:05,109 --> 00:52:08,680  
He's going be speaking to the  
political side of this but next Friday.

533  
00:52:08,680 --> 00:52:22,390  
That's so wonderful people should tune in at

that time. Okay so another question is

534

00:52:22,390 --> 00:52:27,249  
about the six-foot distance for standard  
activity any sense of how long the virus

535

00:52:27,249 --> 00:52:34,119  
in mucus can travel while running and if  
you run what's a safe distance to be at?

536

00:52:34,119 --> 00:52:39,249  
Now I've thought about that one because  
I like to run and I can't go to the gym

537

00:52:39,249 --> 00:52:44,049  
right now and run on the treadmill and I  
actually took a run the other day and I

538

00:52:44,049 --> 00:52:47,980  
actually just put a bandana in front of  
my face. I felt like I I did want that

539

00:52:47,980 --> 00:52:51,730  
was after the recommendation to cover  
your face. It did make it hard to

540

00:52:51,730 --> 00:52:56,319  
breathe. I think when people are  
exercising their expelling more and so a

541

00:52:56,319 --> 00:53:00,509  
little more distance would maybe be  
prudent in that case. They haven't

542

00:53:00,509 --> 00:53:06,849  
necessarily done exact Studies on that  
but you can imagine that sometimes when

543

00:53:06,849 --> 00:53:10,809  
people are exercising they expel more  
and sometimes they might even cough a

544

00:53:10,809 --> 00:53:15,279

little bit depending on their own  
condition their allergy season. I mean

545

00:53:15,279 --> 00:53:21,700  
there there might be more. So you do need  
to think about outside activities. I know

546

00:53:21,700 --> 00:53:25,809  
that it's been noted that even people  
because they think they're outside that

547

00:53:25,809 --> 00:53:30,670  
they're safer but even going to parks  
they've been too close in groups and

548

00:53:30,670 --> 00:53:35,999  
there's been some criticism about that.  
So I think that if you're doing some

549

00:53:35,999 --> 00:53:41,529  
activity that's very creating an  
exertion, a little more distance may

550

00:53:41,529 --> 00:53:47,799  
help. And then another question is  
about the masks, a lot of the items at

551

00:53:47,799 --> 00:53:52,150  
the store out of stock are not being  
sold to the general public. Are there any

552

00:53:52,150 --> 00:53:57,340  
suggestions for grocery shopping with out  
gloves and homemade masks to help

553

00:53:57,340 --> 00:54:03,670  
prevent exposure? I actually have some  
scientific papers that detail studies

554

00:54:03,670 --> 00:54:08,320  
where they looked at people making  
homemade masks out of various materials

555

00:54:08,320 --> 00:54:12,550  
and some people are sewing masks that  
are multi-layered and there is some

556  
00:54:12,550 --> 00:54:16,930  
effectiveness. I mean as I showed on my  
slide, they're not going to be as

557  
00:54:16,930 --> 00:54:21,160  
effective as a medical mask, but if  
you're using them in conjunction with

558  
00:54:21,160 --> 00:54:26,230  
the other recommendations like the  
social distancing and using the wipes on

559  
00:54:26,230 --> 00:54:30,640  
the grocery cart, and and washing your  
hands and not touching your face. Which

560  
00:54:30,640 --> 00:54:34,930  
of course anything in front of your face  
would discourage you from touching your

561  
00:54:34,930 --> 00:54:41,140  
face so in that sense it works even  
that way aside from protecting your face

562  
00:54:41,140 --> 00:54:46,840  
from getting the droplets. So I think  
that I have some of those resources I

563  
00:54:46,840 --> 00:54:51,010  
didn't list them all and if you would  
like some of those on how to make a mask

564  
00:54:51,010 --> 00:54:55,480  
I could send you some of those links  
if you send me an email. But you can also

565  
00:54:55,480 --> 00:55:00,220  
search on the internet but there are  
some very valid recommendations even

566

00:55:00,220 --> 00:55:06,850  
from the CDC on that. But if you can't  
find them I can help you. Any data on

567

00:55:06,850 --> 00:55:12,940  
risk factors for HIV patients? Certainly  
there in the vulnerable group. They're

568

00:55:12,940 --> 00:55:17,320  
considered in the immunosuppressed group  
because the HIV virus is compromising

569

00:55:17,320 --> 00:55:22,300  
their immune system. So they would be  
more vulnerable to the corona virus but

570

00:55:22,300 --> 00:55:26,830  
I and I don't have any statistics on  
that yet but since I study HIV I will be

571

00:55:26,830 --> 00:55:34,780  
very interested when those data are  
available. Another question is are there

572

00:55:34,780 --> 00:55:38,410  
vaccines in development targeting  
multiple strains or are they only

573

00:55:38,410 --> 00:55:45,070  
focusing on one? That's a good question, I  
don't know the answer to that. I had

574

00:55:45,070 --> 00:55:49,690  
looked at some scientific data and I do  
know that there are different strains

575

00:55:49,690 --> 00:55:55,960  
circulating. So if I was in the vaccine  
development business, I would be working

576

00:55:55,960 --> 00:56:00,430  
with multiple strains at the same time  
and in some cases you might be able to

577  
00:56:00,430 --> 00:56:04,240  
put, if there's like three or four  
predominant strains, you can put them in

578  
00:56:04,240 --> 00:56:07,840  
the same vaccine just like we did with  
the flu virus. So

579  
00:56:07,840 --> 00:56:12,330  
I haven't actually read exactly how many  
strains are focusing on, but my

580  
00:56:12,330 --> 00:56:15,520  
professional opinion would be they  
certainly should be focusing on more

581  
00:56:15,520 --> 00:56:30,820  
than one strain. So another question is  
are many people are recovering so why

582  
00:56:30,820 --> 00:56:34,930  
don't we use the convalescent plasma  
extensively? I think we are and that's

583  
00:56:34,930 --> 00:56:39,010  
why we're so excited about the the  
antibody test, the serology that they're

584  
00:56:39,010 --> 00:56:43,720  
talking about, because then we can  
identify those patients and some of them

585  
00:56:43,720 --> 00:56:48,700  
are coming forward if they actually knew  
they had the disease and had been tested

586  
00:56:48,700 --> 00:56:53,110  
positive. But some people were sick, never  
tested, so I think the antibody tests

587  
00:56:53,110 --> 00:57:03,150  
would be needed to to verify that. Next

question.

588

00:57:04,050 --> 00:57:09,670

Talking about thinking about things that we hadn't thought about before. So if the

589

00:57:09,670 --> 00:57:15,940

talking about animals weren't slaughtered, wild animal markets. So these

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00:57:15,940 --> 00:57:20,380

these live animal markets are a concern. They create a set of conditions

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00:57:20,380 --> 00:57:25,360

where they're putting these different animal species in close proximity with

592

00:57:25,360 --> 00:57:31,210

humans. And so again this is a new virus we did not know it existed and there

593

00:57:31,210 --> 00:57:36,130

probably are many more viruses yet to come that we we have not identified yet

594

00:57:36,130 --> 00:57:40,390

so it is a concern regarding the conditions and so I have heard some

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00:57:40,390 --> 00:57:44,110

discussion about whether some of those should be closed down for that reason

596

00:57:44,110 --> 00:57:49,420

but that also is is something that each country will have to decide and maybe

597

00:57:49,420 --> 00:57:54,040

even on a regional basis because you know those markets would be important

598

00:57:54,040 --> 00:58:00,820



for people to obtain food in different geographic areas. The other aspect is you

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00:58:00,820 --> 00:58:05,080

know as humans populate the earth and spread out, you know we're taking up more

600

00:58:05,080 --> 00:58:08,740

and more of the land where the animals used to live or are moving closer to

601

00:58:08,740 --> 00:58:13,240

where the animals are. So it's aside from the live animal markets it's

602

00:58:13,240 --> 00:58:18,700

placing us in closer proximity to these animal species so in that regard we may

603

00:58:18,700 --> 00:58:21,519

be more likely to get these what are called

604

00:58:21,519 --> 00:58:25,799

"zoonotic" infections which are diseases of animals that spread to humans.

605

00:58:25,799 --> 00:58:32,409

And another question is will this be seasonal? It's highly likely that it will.

606

00:58:32,409 --> 00:58:36,339

The other corona viruses that cause colds,

607

00:58:36,339 --> 00:58:40,869

they are seasonal. We see them in the winter and spring and so that's why

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00:58:40,869 --> 00:58:47,079

there's a concern that even if this new corona virus decreases in the summer it

609

00:58:47,079 --> 00:58:51,429  
may come back in the fall and when it  
comes back it made by that time have

610  
00:58:51,429 --> 00:58:55,869  
mutated and be a slightly different  
strain and that's what we see with the

611  
00:58:55,869 --> 00:58:59,409  
flu virus every year there's a different  
vaccine because there's a different

612  
00:58:59,409 --> 00:59:05,819  
strain. So I don't think we'll be staying  
at home under the severe restrictions

613  
00:59:05,819 --> 00:59:12,039  
throughout the fall. We may lift up on  
some of those restrictions but I think

614  
00:59:12,039 --> 00:59:16,509  
when we catch our breath during the low  
that we hope happens in the summer we

615  
00:59:16,509 --> 00:59:24,489  
can be prepared for the fall if it were  
to come back. Another question is the

616  
00:59:24,489 --> 00:59:30,009  
long-term effects on the lungs. I'm  
concerned about that as well so whenever

617  
00:59:30,009 --> 00:59:35,079  
there's an injury like if you cut your  
hand you know that there's a scar that

618  
00:59:35,079 --> 00:59:38,199  
would form.  
Well this virus is killing those cells

619  
00:59:38,199 --> 00:59:43,539  
and injuring the lung and so there is  
some concern that this will result in a

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00:59:43,539 --> 00:59:49,089  
scarring of the lung and that may have  
some long-term effects. So some of the

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00:59:49,089 --> 00:59:54,309  
younger people who may not die from this  
they need to consider the fact that

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00:59:54,309 --> 00:59:59,559  
they could have one of those outcomes  
where their lungs may not be the same as

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00:59:59,559 --> 01:00:04,809  
they were before so everybody really  
should do their best to protect against

624

01:00:04,809 --> 01:00:09,130  
this infection for themselves and for  
the other people that surround them like

625

01:00:09,130 --> 01:00:14,380  
their family members and the older  
people. Now I've been talking a lot so I

626

01:00:14,380 --> 01:00:20,069  
don't know if Giancarlo wants to chime  
in. I was getting a lot of questions.

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01:00:20,069 --> 01:00:24,039  
We'll probably need to do since it is  
getting close to the end of our formal

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01:00:24,039 --> 01:00:28,989  
time and some people may need to log off, I'm  
hoping that everybody can join me in a

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01:00:28,989 --> 01:00:34,199  
virtual round of applause for our first  
two presenters in our series.

630

01:00:41,730 --> 01:00:47,440  
I'm one to definitely think the  
faculty Senate executive team. I would

631  
01:00:47,440 --> 01:00:52,569  
like to thank the executive committee for  
helping to plan this event and I'll put

632  
01:00:52,569 --> 01:00:56,410  
together a really exciting a series of  
speakers ever these next couple of weeks.

633  
01:00:56,410 --> 01:01:02,349  
I also want to be sure to thank Craig  
Wooley, our chief information officer a

634  
01:01:02,349 --> 01:01:07,029  
Wright State University for helping us  
with all the technical as well as his

635  
01:01:07,029 --> 01:01:11,890  
team. They really helped pull this off.  
This is an innovative format it has a

636  
01:01:11,890 --> 01:01:15,849  
couple of glitches for some of us as we  
were working through but we really like

637  
01:01:15,849 --> 01:01:20,349  
that we can come together as an academic  
community even though we can't gather on our

638  
01:01:20,349 --> 01:01:25,720  
campus. We thank each one of you for  
joining us. Please come back next week on

639  
01:01:25,720 --> 01:01:33,579  
Friday which is April 17th, so a week from  
tomorrow and we have Dr. Lee Hannah the School of

640  
01:01:33,579 --> 01:01:37,359  
Public and International affairs.  
He's going to be talking about the

641  
01:01:37,359 --> 01:01:40,079  
impact of COVID-19 on the 2020 election. (audio loss)

642

01:01:40,079 --> 01:01:48,730  
(audio loss)

643

01:01:48,730 --> 01:01:56,579  
Thank you for joining us today.

644

01:01:56,579 --> 01:02:00,150  
Thank you very much.