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COVID 19 What You Need to Know

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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

590

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

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

591

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

595

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

599

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

608

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.

627

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

628

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.