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COVID-19 Testing Explainer

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TESTING by Miki Katoni, Molly Forster, and Max Brimelow

(NOT FOR PUBLICATION-- Temp Music)

Link: <https://vimeo.com/409948654>

pass: TESTING

ABSTRACT: The slow roll-out of testing for the novel coronavirus in the United States has hampered the country's response to the outbreak. Governmental red tape and costly mistakes have officially prevented the possibility to contain the virus. And even now, months into pandemic, testing requirements and lack of equipment are major barriers to implementing widespread testing-- causing problems for patients and the doctors and nurses treating them. This four-minute animated explainer aims to help the public understand what exactly happened with COVID-19 testing across the United States.

SCRIPT:

Picture	Audio
<p><u>ANIMATION SCENE 1 - PRE TITLE</u></p> <p>US Map with stats and virus backdrop</p>	<p>[1] THE UNITED STATES IS THE GLOBAL EPICENTER¹ OF THE CORONAVIRUS OUTBREAK.</p> <p>** Sound ups? **</p>
<p>Trump, Azar, Redfield, etc. dissolve up with headlines in the back</p> <p>Testing print reel</p>	<p>[2] BUT THIS CATASTROPHE IS NOT JUST BECAUSE OF A VIRUS. COSTLY MISTAKES AND WASTED TIME² MADE THE CRISIS MUCH WORSE THAN IT HAD TO BE.</p> <p>AND THERE'S ONE MAIN THING THAT COULD HAVE PREVENTED IT – TESTING.³</p>
<p><u>ANIMATION SCENE 2 - TESTING I NTRO</u></p>	

¹ U.S. has more cases than any other country in the world
<https://www.nytimes.com/interactive/2020/world/coronavirus-maps.html>

² In the United States, the lack of testing capacity has [emerged as a signature failure](#) of the Trump administration's response and now threatens to hamper efforts across the country to plan for an eventual reopening of the economy.

³ In countries that have contained coronavirus, testing was widespread.
<https://www.nytimes.com/2020/03/13/opinion/coronavirus-best-response.html>

<p>Circle Virus decrease in scale/dissolve</p> <p>Dissolve up sped up clock</p>	<p>[3] THE KEY TO TACKLING ANY VIRUS IS CONTAINING⁴ IT, AND TO DO THAT YOU HAVE TO ACT FAST AND TEST QUICKLY.</p>
<p>Langelier</p>	<p><i>Without knowing who's positive and who's negative, it's so much more difficult to manage this. Essentially, we're flying blind.</i></p>
<p><u>ANIMATION SCENE 3 - TIMELINE</u></p> <p>Timeline into Covid molecule on US map</p> <p>People - circles around infected Dissolve everyone else and dotted lines in between infected</p>	<p>[4] ON <u>JANUARY 20TH</u>,⁵ THE VIRUS WAS FOUND IN THE UNITED STATES FOR THE FIRST TIME – AND THE WINDOW TO CONTAIN IT OPENED.</p> <p>IF ENOUGH PEOPLE HAD BEEN TESTED QUICKLY, WE COULD HAVE IDENTIFIED THE FEW PATIENTS CARRYING THE ILLNESS, AND ISOLATED THEM UNTIL THEY RECOVERED-- STOPPING THE VIRUS FROM SPREADING WIDELY. BUT</p>

⁴ <https://www.ncbi.nlm.nih.gov/books/NBK54163/>

⁵ First report of coronavirus in infection was reported Jan 20.

<https://www.nejm.org/doi/full/10.1056/NEJMoa2001191>

	THAT DIDN'T HAPPEN.
Adhanom cutout popup Redfield cutout popup Timeline into map with circles and arrow Print clip and highlights Print clip and highlights	[5] THE WORLD HEALTH ORGANIZATION HAD A WORKING TEST READY TO GO. BUT THE CDC TURNED IT DOWN AND TRIED TO DESIGN ITS OWN. [6] ON FEBRUARY 12TH, MORE THAN <i>THREE WEEKS</i> AFTER THE FIRST CASE WAS FOUND IN THE U.S., THE CDC ADMITTED THEIR TEST DIDN'T WORK. – LATER CONFESSING THAT SLOPPINESS, LAB VIOLATIONS, AND CONTAMINATION MADE THEIR TESTS UNUSABLE.
<1 in 1000 image, man outside a crowd, 2011 tests ⁶ .	[8] AT THAT POINT, THE U.S. HAD ONE OF THE LOWEST TESTING RATES IN THE DEVELOPED WORLD.
Langelier	<i>It was many weeks into the Corona virus epidemic that we really realized that community transmission was happening and this containment approach was simply not feasible.</i>
Timeline into map with highlights Commercial lap logo reel with dates they started production	[9] ON FEBRUARY 29TH- NEARLY SIX WEEKS AFTER CASE NUMBER ONE-- THE U.S. STARTED ALLOWING COMMERCIAL LABS TO USE THEIR OWN TESTS.
Print clip Doctor cutout	[11] BUT IT STILL WASN'T ENOUGH TO MAKE UP FOR LOST TIME, AND TESTS HAD TO BE RATIONED. [EVEN MANY DOCTORS AND NURSES COULDN'T GET THEM].

⁶ <https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/testing-in-us.html>

Virus spread over American flag	[12] AT THIS POINT, THE CHANCE TO CONTAIN THE VIRUS WAS LOST.
Langelier	<i>If greater testing availability had been in place, many of the transmissions that have happened probably could have been prevented.</i>
ANIMATION SCENE 4 Bar graphs of countries	[13] NOW, TESTING HAS ROLLED OUT IN HIGH NUMBERS COMPARED TO OTHER COUNTRIES.
Video popouts of different types of testing	[14] WE HAVE FIVE MINUTE TESTS, DRIVE-THRU TESTS AND ROBOTS THAT CAN RUN 1,000 TEST AT ONCE.
Bar graphs of countries converted to per capita	[15] BUT RELATIVE TO POPULATION, THE RATE OF TESTING IS STILL NOT THAT HIGH⁷.
Equipment microscope animation	[16] ONE OF THE REASONS IS THERE HASN'T BEEN ENOUGH <i>EQUIPMENT</i> TO PROCESS THE TESTS. THINGS LIKE:
	[17] SWABS⁸ – TO TAKE A SAMPLE FROM THE PATIENT.
	[18] CHEMICAL REAGANTS⁹ – TO READ THE TEST
	[19] AND PROTECTIVE GEAR¹⁰ – FOR HEALTH WORKERS TO DO ALL OF

⁷ <https://ourworldindata.org/covid-testing#united-kingdom>

⁸ <https://www.nytimes.com/2020/04/19/us/coronavirus-updates.html>

⁹

<https://www.vox.com/2020/4/19/21227024/trump-says-theres-enough-testing-to-reopen-businesses-governors-say-thats-false-and-just-delusional>

¹⁰

<https://www.usatoday.com/story/news/politics/2020/04/18/coronavirus-creates-ppe-bidding-war-states-like-illinois-new-york/5144652002/>

	THIS SAFELY.
Test lined up while Lap person is testing	[20] THESE SHORTAGES CREATED A BACKLOG OF TESTS WAITING TO BE PROCESSED.
7 day timeline Person being tested dissolve up in background	[21]; IN SOME CASES, HOSPITALS REPORTED WAITING SEVEN DAYS¹¹ OR MORE FOR TEST RESULTS.
	[22] THE DELAY CAUSED PROBLEMS FOR PATIENTS AND THE DOCTORS AND NURSES TREATING THEM.
Dr Larry Brooks	<i>During that time period, everytime you go into the room, you know there's gowns, there's masks, there's use of all sorts of personal protective equipment. And there's really nothing we can do about it if we're trying to protect ourselves.</i>
ANIMATION SCENE 5 People with virus backdrop	[23] THOSE SLOWDOWNS MADE IT HARDER TO PROTECT PEOPLE FROM THE VIRUS.
CDC guidelines cutouts and highlights	[24] AND UNTIL LATE APRIL, THE CDC'S OWN <i>GUIDELINES</i> PREVENTED MOST PEOPLE FROM GETTING TESTED¹².
	[27] THAT MEANS MANY DON'T KNOW IF THEY'VE <i>ALREADY HAD</i> THE VIRUS OR NOT.
	<Slow down the read>
Immunity animation	[28] A <i>DIFFERENT TEST COULD HELP</i> MAKE UP FOR THAT – ONE THAT LOOKS FOR IMMUNITY.
People with check and x marks appear	[29] IT'S A BLOOD TEST THAT TRACKS DOWN ANTIBODIES--

¹¹ <https://oig.hhs.gov/oei/reports/oei-06-20-00300.pdf>

¹² <https://www.cdc.gov/coronavirus/2019-nCoV/hcp/clinical-criteria.html>

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	INDICATING WHETHER OR NOT SOMEONE HAS BEEN EXPOSED TO THE VIRUS.
Backdrop dissolve up over people	[30] SOME SAY THE NEW TESTS COULD, EVENTUALLY, CONTRIBUTE TO SOCIETY GOING BACK TO NORMAL.
Langelier	<i>And that has major implications for our workforce. Because if someone has been infected and is immune, then that means they can safely work with positive patients in most cases. [00:13:25][60.2]</i>
Print clips	[31] BUT AFTER A FAST ROLLOUT, THE TESTS HAVE PROVEN TO BE UNRELIABLE. AND IT'S STILL UNCLEAR IF HAVING ANTIBODIES ACTUALLY MEANS BEING IMMUNE.
Collage of cutouts ending with print clip	[32] SO UNTIL WE CAN PROVIDE FAST, <u>EFFECTIVE</u> DIAGNOSTIC TESTING TO EVERYONE – SOCIAL DISTANCING AND SHELTER-IN-PLACE WILL LIKELY REMAIN THE NORM.

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COVID-19 Testing Source List

- Professor Chaz Langelier, *University of San Francisco, California Infectious Disease Specialist.*
- Dr Larry Brooks, *ICU, Los Angeles*
- Dr Olivia DeBree, *Lifelong Medical Care, Berkeley*
- Dr Kim Nguyen, *Lifelong Medical Care, Berkeley*
- Jennifer Zamora, *DHSc Physicians Assistant, University of Irvine*
- Suzanne Clancy, *Senior Manager, Divisional Communications Hologic Inc.*
- Maurice Exner, *Vice President of Research and Development, Hologic Inc.*