

WEBVTT

NOTE duration:"00:12:12.0530000"

NOTE language:en-us

NOTE Confidence: 0.86347365

00:00:00.000 --> 00:00:01.596 And everyone I'm going to talk

NOTE Confidence: 0.86347365

00:00:01.596 --> 00:00:03.537 a bit about policy and politics

NOTE Confidence: 0.86347365

00:00:03.537 --> 00:00:05.169 around vaccines during COVID-19.

NOTE Confidence: 0.86347365

00:00:05.170 --> 00:00:08.050 And like so many of us during this pandemic,

NOTE Confidence: 0.86347365

00:00:08.050 --> 00:00:10.318 our work and what we're doing has

NOTE Confidence: 0.86347365

00:00:10.318 --> 00:00:12.529 expanded to meet the moment for me.

NOTE Confidence: 0.86347365

00:00:12.530 --> 00:00:14.770 That has meant expanding from my work,

NOTE Confidence: 0.86347365

00:00:14.770 --> 00:00:16.690 which is typically looked at analyzing,

NOTE Confidence: 0.86347365

00:00:16.690 --> 00:00:17.946 studying the policy process,

NOTE Confidence: 0.86347365

00:00:17.946 --> 00:00:19.830 studying the use of evidence and

NOTE Confidence: 0.86347365

00:00:19.890 --> 00:00:21.490 policy making in public health,

NOTE Confidence: 0.86347365

00:00:21.490 --> 00:00:22.714 particularly around vaccines and

NOTE Confidence: 0.86347365

00:00:22.714 --> 00:00:24.550 thinking about ways in which those

NOTE Confidence: 0.86347365

00:00:24.599 --> 00:00:25.967 processes can be strengthened.

NOTE Confidence: 0.86347365
00:00:25.970 --> 00:00:27.350 I'm still doing that,
NOTE Confidence: 0.86347365
00:00:27.350 --> 00:00:29.075 but also have been contributing
NOTE Confidence: 0.86347365
00:00:29.075 --> 00:00:30.538 in some ways to the.
NOTE Confidence: 0.86347365
00:00:30.540 --> 00:00:32.180 The policy making process contributing
NOTE Confidence: 0.86347365
00:00:32.180 --> 00:00:34.404 to the generation of evidence that can
NOTE Confidence: 0.86347365
00:00:34.404 --> 00:00:36.280 inform how we think about these vaccines,
NOTE Confidence: 0.86347365
00:00:36.280 --> 00:00:38.387 both in terms of regulation and rollout.
NOTE Confidence: 0.86347365
00:00:38.390 --> 00:00:39.900 So in our time today,
NOTE Confidence: 0.86347365
00:00:39.900 --> 00:00:41.410 I'll briefly walk through a
NOTE Confidence: 0.86347365
00:00:41.410 --> 00:00:42.618 variety of those ways.
NOTE Confidence: 0.86347365
00:00:42.620 --> 00:00:44.426 Colleagues and I have been contributing,
NOTE Confidence: 0.86347365
00:00:44.430 --> 00:00:45.805 studying the work and also
NOTE Confidence: 0.86347365
00:00:45.805 --> 00:00:47.180 contributing to this work around
NOTE Confidence: 0.86347365
00:00:47.232 --> 00:00:48.957 COVID-19 vaccine policy and politics.
NOTE Confidence: 0.86347365
00:00:48.960 --> 00:00:51.074 I think just by way of context,
NOTE Confidence: 0.86347365

00:00:51.080 --> 00:00:52.914 we know some of the many challenges
NOTE Confidence: 0.86347365

00:00:52.914 --> 00:00:55.002 before us in terms of a public
NOTE Confidence: 0.86347365

00:00:55.002 --> 00:00:56.557 health and health policy community
NOTE Confidence: 0.86347365

00:00:56.557 --> 00:00:58.019 with respect to vaccines,
NOTE Confidence: 0.86347365

00:00:58.020 --> 00:01:00.050 it's a balancing act as I try
NOTE Confidence: 0.86347365

00:01:00.050 --> 00:01:01.470 to articulate here between.
NOTE Confidence: 0.86347365

00:01:01.470 --> 00:01:03.396 Recognizing the urgency of the crisis,
NOTE Confidence: 0.86347365

00:01:03.400 --> 00:01:05.000 the need to rapidly innovate,
NOTE Confidence: 0.86347365

00:01:05.000 --> 00:01:05.644 including innovate,
NOTE Confidence: 0.86347365

00:01:05.644 --> 00:01:06.610 not just scientifically,
NOTE Confidence: 0.86347365

00:01:06.610 --> 00:01:08.734 but with our regulatory and policy
NOTE Confidence: 0.86347365

00:01:08.734 --> 00:01:10.473 making activities while also still
NOTE Confidence: 0.86347365

00:01:10.473 --> 00:01:12.545 figuring out how we can make most use
NOTE Confidence: 0.86347365

00:01:12.545 --> 00:01:14.546 of our mechanisms or processes that
NOTE Confidence: 0.86347365

00:01:14.546 --> 00:01:16.560 are in place for evaluating evidence
NOTE Confidence: 0.86347365

00:01:16.560 --> 00:01:18.480 and putting that evidence into work.

NOTE Confidence: 0.86347365

00:01:18.480 --> 00:01:20.566 And at the same time generating and

NOTE Confidence: 0.86347365

00:01:20.566 --> 00:01:21.809 gathering and rapidly incorporating

NOTE Confidence: 0.86347365

00:01:21.809 --> 00:01:23.860 the evidence that can help us do

NOTE Confidence: 0.86347365

00:01:23.860 --> 00:01:25.582 that more efficiently and more

NOTE Confidence: 0.86347365

00:01:25.582 --> 00:01:27.387 effectively with respect to COVID-19

NOTE Confidence: 0.86347365

00:01:27.387 --> 00:01:29.073 vaccines in the United States.

NOTE Confidence: 0.86347365

00:01:29.073 --> 00:01:30.678 As you heard earlier today,

NOTE Confidence: 0.86347365

00:01:30.680 --> 00:01:32.678 and are no doubt well aware.

NOTE Confidence: 0.86347365

00:01:32.680 --> 00:01:34.774 Operation Warp Speed is perhaps the

NOTE Confidence: 0.86347365

00:01:34.774 --> 00:01:36.543 most visible representation of those

NOTE Confidence: 0.86347365

00:01:36.543 --> 00:01:38.415 efforts to innovate in to accelerate

NOTE Confidence: 0.86347365

00:01:38.415 --> 00:01:40.470 the research and development process,

NOTE Confidence: 0.86347365

00:01:40.470 --> 00:01:42.240 and you've heard about it.

NOTE Confidence: 0.86347365

00:01:42.240 --> 00:01:44.340 There's months of slowie the scientific

NOTE Confidence: 0.86347365

00:01:44.340 --> 00:01:46.840 head of the operation warp speed effort,

NOTE Confidence: 0.86347365

00:01:46.840 --> 00:01:49.664 and then you've heard about that their work.

NOTE Confidence: 0.86347365

00:01:49.670 --> 00:01:51.539 I don't need to repeat the way

NOTE Confidence: 0.86347365

00:01:51.539 --> 00:01:53.550 in which they were intended to

NOTE Confidence: 0.86347365

00:01:53.550 --> 00:01:55.842 facilitate and accelerate some of the

NOTE Confidence: 0.86347365

00:01:55.842 --> 00:01:57.809 research and development programs,

NOTE Confidence: 0.86347365

00:01:57.810 --> 00:02:00.743 as well as the manufacturing of vaccines

NOTE Confidence: 0.86347365

00:02:00.743 --> 00:02:03.575 where that balancing act in in terms of of.

NOTE Confidence: 0.86347365

00:02:03.580 --> 00:02:05.518 How we think about that first

NOTE Confidence: 0.86347365

00:02:05.518 --> 00:02:06.487 sort of tension?

NOTE Confidence: 0.86347365

00:02:06.490 --> 00:02:08.374 I articulated where the questions around

NOTE Confidence: 0.86347365

00:02:08.374 --> 00:02:10.369 the review and evaluation of vaccine

NOTE Confidence: 0.86347365

00:02:10.369 --> 00:02:11.741 candidates and persisting concerns

NOTE Confidence: 0.86347365

00:02:11.741 --> 00:02:13.589 throughout the summer into the fall,

NOTE Confidence: 0.86347365

00:02:13.590 --> 00:02:15.215 and actually just recently affirmed

NOTE Confidence: 0.86347365

00:02:15.215 --> 00:02:17.519 just in the past few hours by

NOTE Confidence: 0.86347365

00:02:17.519 --> 00:02:18.755 by Doctor Stephen Hahn.

NOTE Confidence: 0.86347365

00:02:18.760 --> 00:02:20.264 The current FDA commissioner

NOTE Confidence: 0.86347365

00:02:20.264 --> 00:02:21.768 regarding concerns about pressure

NOTE Confidence: 0.86347365

00:02:21.768 --> 00:02:23.950 to two on the part of the White

NOTE Confidence: 0.86347365

00:02:23.950 --> 00:02:26.004 House on the part of the outgoing

NOTE Confidence: 0.86347365

00:02:26.004 --> 00:02:27.809 president to accelerate to interfere.

NOTE Confidence: 0.86347365

00:02:27.810 --> 00:02:29.700 Perhaps with the review of vaccine

NOTE Confidence: 0.86347365

00:02:29.700 --> 00:02:31.695 candidates by the Food and Drug

NOTE Confidence: 0.86347365

00:02:31.695 --> 00:02:33.723 Administration over over this past fall.

NOTE Confidence: 0.86347365

00:02:33.730 --> 00:02:35.255 And we heard repeatedly into

NOTE Confidence: 0.86347365

00:02:35.255 --> 00:02:36.780 great credit of Doctor Marx,

NOTE Confidence: 0.86347365

00:02:36.780 --> 00:02:39.220 who will hear from in a little bit,

NOTE Confidence: 0.86347365

00:02:39.220 --> 00:02:40.918 and his colleagues at the FDA

NOTE Confidence: 0.86347365

00:02:40.918 --> 00:02:42.050 loud and clear in

NOTE Confidence: 0.8427949

00:02:42.119 --> 00:02:44.039 this paper in JAMA is a

NOTE Confidence: 0.8427949

00:02:44.039 --> 00:02:45.319 representative example of it.

NOTE Confidence: 0.8427949

00:02:45.320 --> 00:02:46.988 From September, the degree to which
NOTE Confidence: 0.8427949

00:02:46.988 --> 00:02:48.680 they were committed to preserving,
NOTE Confidence: 0.8427949

00:02:48.680 --> 00:02:50.445 to strengthening to defending the
NOTE Confidence: 0.8427949

00:02:50.445 --> 00:02:52.210 scientific review process of these
NOTE Confidence: 0.8427949

00:02:52.267 --> 00:02:54.451 vaccine candidates to allow there not to
NOTE Confidence: 0.8427949

00:02:54.451 --> 00:02:56.395 be compromises with respect to the to
NOTE Confidence: 0.8427949

00:02:56.395 --> 00:02:58.135 the speed and quality of the evidence.
NOTE Confidence: 0.8427949

00:02:58.135 --> 00:03:00.270 Review, even as we were moving quickly,
NOTE Confidence: 0.8427949

00:03:00.270 --> 00:03:02.100 still still in a rigorous way,
NOTE Confidence: 0.8427949

00:03:02.100 --> 00:03:03.655 but quickly through the vaccine
NOTE Confidence: 0.8427949

00:03:03.655 --> 00:03:05.210 development process that balancing act.
NOTE Confidence: 0.8427949

00:03:05.210 --> 00:03:07.233 And that that work to preserve the
NOTE Confidence: 0.8427949

00:03:07.233 --> 00:03:09.239 integrity of the FDA review process,
NOTE Confidence: 0.8427949

00:03:09.240 --> 00:03:11.640 I think, was a was a great asset
NOTE Confidence: 0.8427949

00:03:11.640 --> 00:03:13.268 and remains a great asset,
NOTE Confidence: 0.8427949

00:03:13.270 --> 00:03:15.223 taking one one of the challenges off

NOTE Confidence: 0.8427949

00:03:15.223 --> 00:03:17.459 the table that we now encounter with

NOTE Confidence: 0.8427949

00:03:17.459 --> 00:03:19.463 respect to these vaccines in September,

NOTE Confidence: 0.8427949

00:03:19.470 --> 00:03:20.582 the New England Journal.

NOTE Confidence: 0.8427949

00:03:20.582 --> 00:03:22.653 Drawing upon my prior work studying the

NOTE Confidence: 0.8427949

00:03:22.653 --> 00:03:24.428 Vaccine Expert Advisory Committee process,

NOTE Confidence: 0.8427949

00:03:24.430 --> 00:03:26.488 the role of expert advisors and public

NOTE Confidence: 0.8427949

00:03:26.488 --> 00:03:27.951 health policy making more generally

NOTE Confidence: 0.8427949

00:03:27.951 --> 00:03:29.799 in the important role they can play

NOTE Confidence: 0.8427949

00:03:29.799 --> 00:03:31.613 in transparency and in promoting

NOTE Confidence: 0.8427949

00:03:31.613 --> 00:03:33.109 public confidence in vaccines.

NOTE Confidence: 0.8427949

00:03:33.110 --> 00:03:35.590 I wrote a piece that supported this measure,

NOTE Confidence: 0.8427949

00:03:35.590 --> 00:03:37.140 relying on our government scientists.

NOTE Confidence: 0.8427949

00:03:37.140 --> 00:03:38.770 Those expert advisors such as.

NOTE Confidence: 0.8427949

00:03:38.770 --> 00:03:40.435 Burp active vaccines Advisory committee

NOTE Confidence: 0.8427949

00:03:40.435 --> 00:03:42.503 that met so prominently with our

NOTE Confidence: 0.8427949

00:03:42.503 --> 00:03:44.258 initial vaccine candidates in December.
NOTE Confidence: 0.8427949

00:03:44.260 --> 00:03:46.390 The value that those mechanisms those
NOTE Confidence: 0.8427949

00:03:46.390 --> 00:03:48.172 processes those time tested review
NOTE Confidence: 0.8427949

00:03:48.172 --> 00:03:50.008 entities serve even in this time
NOTE Confidence: 0.8427949

00:03:50.008 --> 00:03:51.800 of great urgency and innovation.
NOTE Confidence: 0.8427949

00:03:51.800 --> 00:03:54.328 And I think the review process that we
NOTE Confidence: 0.8427949

00:03:54.328 --> 00:03:56.758 found ourselves with left us with not
NOTE Confidence: 0.8427949

00:03:56.758 --> 00:03:58.488 just highly efficacious ANAN vaccines
NOTE Confidence: 0.8427949

00:03:58.549 --> 00:04:00.715 with a very favorable safety profile,
NOTE Confidence: 0.8427949

00:04:00.720 --> 00:04:03.248 but real confidence in the quality of the
NOTE Confidence: 0.8427949

00:04:03.248 --> 00:04:05.874 work by which that evidence was collected
NOTE Confidence: 0.8427949

00:04:05.874 --> 00:04:08.779 and by which that evidence was analyzing.
NOTE Confidence: 0.8427949

00:04:08.780 --> 00:04:09.948 At the state level,
NOTE Confidence: 0.8427949

00:04:09.948 --> 00:04:11.700 we're seeing lots of of attention
NOTE Confidence: 0.8427949

00:04:11.762 --> 00:04:13.694 to the role that states are playing
NOTE Confidence: 0.8427949

00:04:13.694 --> 00:04:15.020 in the vaccine rollout,

NOTE Confidence: 0.8427949

00:04:15.020 --> 00:04:16.550 including not just the issues

NOTE Confidence: 0.8427949

00:04:16.550 --> 00:04:18.080 around allocation that are getting

NOTE Confidence: 0.8427949

00:04:18.130 --> 00:04:19.470 a lot of attention recently.

NOTE Confidence: 0.8427949

00:04:19.470 --> 00:04:20.960 Of course, for understandable reasons,

NOTE Confidence: 0.8427949

00:04:20.960 --> 00:04:22.604 but also the question about how

NOTE Confidence: 0.8427949

00:04:22.604 --> 00:04:24.537 the science can inform the way in

NOTE Confidence: 0.8427949

00:04:24.537 --> 00:04:26.091 which the state of Connecticut and

NOTE Confidence: 0.8427949

00:04:26.091 --> 00:04:27.792 other states are supporting the

NOTE Confidence: 0.8427949

00:04:27.792 --> 00:04:29.522 rollout and distribution of these

NOTE Confidence: 0.8427949

00:04:29.522 --> 00:04:30.761 vaccines here in Connecticut.

NOTE Confidence: 0.8427949

00:04:30.761 --> 00:04:31.949 As, as you heard,

NOTE Confidence: 0.8427949

00:04:31.950 --> 00:04:34.030 were one of those states that has a

NOTE Confidence: 0.8427949

00:04:34.030 --> 00:04:35.507 vaccine advisory committee on which

NOTE Confidence: 0.8427949

00:04:35.507 --> 00:04:37.307 I serve along with aryel colleagues

NOTE Confidence: 0.8427949

00:04:37.307 --> 00:04:39.070 Brick Martinello and Albert Cohen.

NOTE Confidence: 0.8427949

00:04:39.070 --> 00:04:39.666 Jim hadler.
NOTE Confidence: 0.8427949
00:04:39.666 --> 00:04:41.752 On our main advisory group and the
NOTE Confidence: 0.8427949
00:04:41.752 --> 00:04:43.435 Science subcommittee and one of
NOTE Confidence: 0.8427949
00:04:43.435 --> 00:04:45.090 the responsibilities of our group
NOTE Confidence: 0.8427949
00:04:45.090 --> 00:04:46.808 is not to replace or usurp,
NOTE Confidence: 0.8427949
00:04:46.810 --> 00:04:49.582 or to duplicate the work that the FDA did.
NOTE Confidence: 0.8427949
00:04:49.590 --> 00:04:50.822 Reviewing the vaccine candidates.
NOTE Confidence: 0.8427949
00:04:50.822 --> 00:04:51.130 But,
NOTE Confidence: 0.8427949
00:04:51.130 --> 00:04:53.279 as these vaccines were being made available,
NOTE Confidence: 0.8427949
00:04:53.280 --> 00:04:54.834 and as they had been authorized
NOTE Confidence: 0.8427949
00:04:54.834 --> 00:04:57.036 by the FDA to affirm the integrity
NOTE Confidence: 0.8427949
00:04:57.036 --> 00:04:59.244 of those review processes to look
NOTE Confidence: 0.8427949
00:04:59.244 --> 00:05:00.368 carefully at the data,
NOTE Confidence: 0.8427949
00:05:00.370 --> 00:05:02.826 the way in which the data was collected,
NOTE Confidence: 0.8427949
00:05:02.830 --> 00:05:04.986 the way in which it was reviewed,
NOTE Confidence: 0.8427949
00:05:04.990 --> 00:05:07.446 and to provide one more set of eyes,

NOTE Confidence: 0.8427949

00:05:07.450 --> 00:05:09.352 one more vote of confidence that

NOTE Confidence: 0.8427949

00:05:09.352 --> 00:05:10.303 we could have.

NOTE Confidence: 0.8427949

00:05:10.310 --> 00:05:12.515 We could we could trust the mechanisms

NOTE Confidence: 0.8427949

00:05:12.515 --> 00:05:15.010 that were used to help us get the

NOTE Confidence: 0.8427949

00:05:15.010 --> 00:05:16.800 vaccines that we're now rolling out,

NOTE Confidence: 0.8427949

00:05:16.800 --> 00:05:18.324 and you can see the summary

NOTE Confidence: 0.8427949

00:05:18.324 --> 00:05:19.340 statement here affirming the

NOTE Confidence: 0.8151021

00:05:19.394 --> 00:05:21.214 integrity of the processor recommendation

NOTE Confidence: 0.8151021

00:05:21.214 --> 00:05:22.670 that our science subcommittee,

NOTE Confidence: 0.8151021

00:05:22.670 --> 00:05:24.215 major Governor Lamont first for

NOTE Confidence: 0.8151021

00:05:24.215 --> 00:05:25.760 the Pfizer by Ontech vaccine,

NOTE Confidence: 0.8151021

00:05:25.760 --> 00:05:27.608 and again for the Moderna vaccine

NOTE Confidence: 0.8151021

00:05:27.608 --> 00:05:29.470 in a process, will continue for

NOTE Confidence: 0.8151021

00:05:29.470 --> 00:05:30.400 subsequent vaccine candidates.

NOTE Confidence: 0.8151021

00:05:30.400 --> 00:05:32.612 As part of this broader effort to

NOTE Confidence: 0.8151021

00:05:32.612 --> 00:05:34.627 build confidence in the vaccines and
NOTE Confidence: 0.8151021

00:05:34.627 --> 00:05:36.631 to help support and evidenced way
NOTE Confidence: 0.8151021

00:05:36.631 --> 00:05:38.877 their rollout and their distribution.
NOTE Confidence: 0.8151021

00:05:38.880 --> 00:05:43.785 As we turn to the issues around rollout and.
NOTE Confidence: 0.8151021

00:05:43.790 --> 00:05:45.758 Next slide here is not advancing,
NOTE Confidence: 0.8151021

00:05:45.760 --> 00:05:47.400 which is a bit problematic.
NOTE Confidence: 0.8151021

00:05:47.400 --> 00:05:49.832 Excuse me here as we turn to the
NOTE Confidence: 0.8151021

00:05:49.832 --> 00:05:51.890 issues around roll out and hopefully
NOTE Confidence: 0.8151021

00:05:51.890 --> 00:05:53.954 you can still see that slide.
NOTE Confidence: 0.8151021

00:05:53.960 --> 00:05:55.969 Here colleagues and I picking up on
NOTE Confidence: 0.8151021

00:05:55.969 --> 00:05:58.217 some of the work that Jenny Pitts
NOTE Confidence: 0.8151021

00:05:58.217 --> 00:06:00.197 and her colleagues in the public
NOTE Confidence: 0.8151021

00:06:00.263 --> 00:06:02.158 Health Modeling Unit are doing.
NOTE Confidence: 0.8151021

00:06:02.160 --> 00:06:04.128 Another of their colleagues in mind,
NOTE Confidence: 0.8151021

00:06:04.130 --> 00:06:06.092 David Pal teal from the School
NOTE Confidence: 0.8151021

00:06:06.092 --> 00:06:07.073 of Public Health,

NOTE Confidence: 0.8151021

00:06:07.080 --> 00:06:08.720 along with Doctor Rochelle Lenski,

NOTE Confidence: 0.8151021

00:06:08.720 --> 00:06:10.688 the incoming director of the CDC,

NOTE Confidence: 0.8151021

00:06:10.690 --> 00:06:12.062 and the new administration.

NOTE Confidence: 0.8151021

00:06:12.062 --> 00:06:13.434 We looked using mathematical

NOTE Confidence: 0.8151021

00:06:13.434 --> 00:06:14.815 modeling techniques at how

NOTE Confidence: 0.8151021

00:06:14.815 --> 00:06:15.790 different vaccine candidates.

NOTE Confidence: 0.8151021

00:06:15.790 --> 00:06:16.792 Having different profiles,

NOTE Confidence: 0.8151021

00:06:16.792 --> 00:06:18.128 hypothetical profiles with respect

NOTE Confidence: 0.8151021

00:06:18.128 --> 00:06:20.006 to their efficacy as defined in

NOTE Confidence: 0.8151021

00:06:20.006 --> 00:06:21.106 different ways against infection

NOTE Confidence: 0.8151021

00:06:21.106 --> 00:06:22.360 or transmission or severity.

NOTE Confidence: 0.8151021

00:06:22.360 --> 00:06:24.478 Looking at different ways in which

NOTE Confidence: 0.8151021

00:06:24.478 --> 00:06:26.205 vaccines are implemented in terms

NOTE Confidence: 0.8151021

00:06:26.205 --> 00:06:27.997 of the pace of their roll out,

NOTE Confidence: 0.8151021

00:06:28.000 --> 00:06:29.960 the number of individuals in terms of

NOTE Confidence: 0.8151021

00:06:29.960 --> 00:06:32.069 the fraction of the population reached,
NOTE Confidence: 0.8151021

00:06:32.070 --> 00:06:34.158 as well as what the state of the
NOTE Confidence: 0.8151021

00:06:34.158 --> 00:06:35.794 pandemic is at the circumstances
NOTE Confidence: 0.8151021

00:06:35.794 --> 00:06:37.894 which in which a vaccine is
NOTE Confidence: 0.8151021

00:06:37.894 --> 00:06:39.255 introduced as measured through
NOTE Confidence: 0.8151021

00:06:39.255 --> 00:06:41.765 through our party and what we did in
NOTE Confidence: 0.8151021

00:06:41.765 --> 00:06:43.900 collapsing a lot of work and into
NOTE Confidence: 0.8151021

00:06:43.900 --> 00:06:46.278 a single slide that that could be.
NOTE Confidence: 0.8151021

00:06:46.280 --> 00:06:48.458 Full paper was to look at,
NOTE Confidence: 0.8151021

00:06:48.460 --> 00:06:50.626 see what factors could help drive
NOTE Confidence: 0.8151021

00:06:50.626 --> 00:06:52.879 a vaccine rollout that could be
NOTE Confidence: 0.8151021

00:06:52.879 --> 00:06:54.719 most effective at reducing cases
NOTE Confidence: 0.8151021

00:06:54.719 --> 00:06:56.587 of COVID-19 and reducing deaths
NOTE Confidence: 0.8151021

00:06:56.587 --> 00:06:58.327 and what we found summarizing
NOTE Confidence: 0.8151021

00:06:58.327 --> 00:07:00.668 a lot of information into a key
NOTE Confidence: 0.8151021

00:07:00.668 --> 00:07:02.600 point was looking at the effects

NOTE Confidence: 0.8151021

00:07:02.663 --> 00:07:04.479 that implementation really has.

NOTE Confidence: 0.8151021

00:07:04.480 --> 00:07:05.672 As the title suggests,

NOTE Confidence: 0.8151021

00:07:05.672 --> 00:07:08.041 here that even if we have very

NOTE Confidence: 0.8151021

00:07:08.041 --> 00:07:09.580 highly efficacious vaccines,

NOTE Confidence: 0.8151021

00:07:09.580 --> 00:07:12.485 this slide only went up to 75% efficacy,

NOTE Confidence: 0.8151021

00:07:12.485 --> 00:07:15.040 but the pattern holds that even 95%

NOTE Confidence: 0.8151021

00:07:15.040 --> 00:07:17.644 efficacy that what will be matter critically.

NOTE Confidence: 0.8151021

00:07:17.650 --> 00:07:19.778 Or it is the pace in which we

NOTE Confidence: 0.8151021

00:07:19.778 --> 00:07:21.309 can implement these vaccines,

NOTE Confidence: 0.8151021

00:07:21.310 --> 00:07:24.055 the speed at which we can roll them out,

NOTE Confidence: 0.8151021

00:07:24.060 --> 00:07:26.090 the number of the percentage of the

NOTE Confidence: 0.8151021

00:07:26.090 --> 00:07:27.970 population we can reach and how

NOTE Confidence: 0.8151021

00:07:27.970 --> 00:07:29.555 effectively we are holding down

NOTE Confidence: 0.8151021

00:07:29.555 --> 00:07:31.726 the pandemic at the time in which

NOTE Confidence: 0.8151021

00:07:31.726 --> 00:07:33.201 the vaccines are being introduced

NOTE Confidence: 0.8151021

00:07:33.210 --> 00:07:34.925 as measured through RT that we can
NOTE Confidence: 0.8151021

00:07:34.925 --> 00:07:36.432 accrue much greater vaccine related
NOTE Confidence: 0.8151021

00:07:36.432 --> 00:07:37.868 benefits around those circumstances
NOTE Confidence: 0.8151021

00:07:37.868 --> 00:07:39.656 of implementation almost as much
NOTE Confidence: 0.8151021

00:07:39.656 --> 00:07:41.156 so as some incremental advantages
NOTE Confidence: 0.8151021

00:07:41.156 --> 00:07:42.356 in vaccine efficacy itself,
NOTE Confidence: 0.8151021

00:07:42.360 --> 00:07:44.663 we summarize some of these key findings
NOTE Confidence: 0.8151021

00:07:44.663 --> 00:07:46.926 in a companion Op Ed and USA TODAY.
NOTE Confidence: 0.8151021

00:07:46.930 --> 00:07:47.881 Back in November,
NOTE Confidence: 0.8151021

00:07:47.881 --> 00:07:49.466 when we wrote this paper.
NOTE Confidence: 0.8151021

00:07:49.470 --> 00:07:51.744 Really emphasizing things that we're all
NOTE Confidence: 0.8151021

00:07:51.744 --> 00:07:53.899 living through and seeing right now,
NOTE Confidence: 0.8151021

00:07:53.900 --> 00:07:55.868 and the public health community has
NOTE Confidence: 0.8151021

00:07:55.868 --> 00:07:57.666 been thinking about for sometime
NOTE Confidence: 0.8151021

00:07:57.666 --> 00:07:59.796 about the importance of distribution,
NOTE Confidence: 0.8151021

00:07:59.800 --> 00:08:01.590 the importance of continuing our

NOTE Confidence: 0.8151021

00:08:01.590 --> 00:08:03.827 public health strategies to keep the

NOTE Confidence: 0.8151021

00:08:03.827 --> 00:08:05.704 virus manageable, all things considered,

NOTE Confidence: 0.8151021

00:08:05.704 --> 00:08:07.544 an the importance in investment.

NOTE Confidence: 0.86860204

00:08:07.550 --> 00:08:09.390 The investment in implementation of

NOTE Confidence: 0.86860204

00:08:09.390 --> 00:08:10.862 vaccine distribution and delivery.

NOTE Confidence: 0.86860204

00:08:10.870 --> 00:08:13.090 As we wrote in in November,

NOTE Confidence: 0.86860204

00:08:13.090 --> 00:08:15.666 challenges that we're continuing to see now,

NOTE Confidence: 0.86860204

00:08:15.670 --> 00:08:17.535 and hopefully efforts that will

NOTE Confidence: 0.86860204

00:08:17.535 --> 00:08:20.210 improve as the weeks and months ago.

NOTE Confidence: 0.86860204

00:08:20.210 --> 00:08:22.786 Along with respect to the to the

NOTE Confidence: 0.86860204

00:08:22.786 --> 00:08:24.448 investments in vaccine rollout

NOTE Confidence: 0.86860204

00:08:24.448 --> 00:08:26.376 that we're now encountering.

NOTE Confidence: 0.86860204

00:08:26.380 --> 00:08:28.452 My colleagues and I have continued this

NOTE Confidence: 0.86860204

00:08:28.452 --> 00:08:30.471 work looking using that model as well

NOTE Confidence: 0.86860204

00:08:30.471 --> 00:08:32.091 to think about questions that have

NOTE Confidence: 0.86860204

00:08:32.147 --> 00:08:34.013 also come up earlier today thinking
NOTE Confidence: 0.86860204

00:08:34.013 --> 00:08:35.555 about particular one dose vaccines,
NOTE Confidence: 0.86860204

00:08:35.555 --> 00:08:37.325 windows vaccines or Windows vaccine regimens.
NOTE Confidence: 0.86860204

00:08:37.330 --> 00:08:39.106 If there are studied and confirmed,
NOTE Confidence: 0.86860204

00:08:39.110 --> 00:08:40.972 what would we look at in terms
NOTE Confidence: 0.86860204

00:08:40.972 --> 00:08:43.432 of the of the trade offs in over
NOTE Confidence: 0.86860204

00:08:43.432 --> 00:08:45.027 a six month time horizon?
NOTE Confidence: 0.86860204

00:08:45.030 --> 00:08:47.568 Is this paper looks at in terms of the
NOTE Confidence: 0.86860204

00:08:47.568 --> 00:08:49.353 advantages of a one dose formulation
NOTE Confidence: 0.86860204

00:08:49.353 --> 00:08:51.159 in terms of of providing efficacy
NOTE Confidence: 0.86860204

00:08:51.159 --> 00:08:53.294 more quickly than two doses in terms
NOTE Confidence: 0.86860204

00:08:53.294 --> 00:08:56.450 of what level of efficacy might?
NOTE Confidence: 0.86860204

00:08:56.450 --> 00:08:58.781 Below that 95% threshold we now have
NOTE Confidence: 0.86860204

00:08:58.781 --> 00:09:01.401 result in as many infections or deaths
NOTE Confidence: 0.86860204

00:09:01.401 --> 00:09:04.479 averted and what we found using our model,
NOTE Confidence: 0.86860204

00:09:04.480 --> 00:09:06.670 which again no model is perfect.

NOTE Confidence: 0.86860204

00:09:06.670 --> 00:09:08.495 But they help frame and

NOTE Confidence: 0.86860204

00:09:08.495 --> 00:09:09.955 hopefully inform the debate.

NOTE Confidence: 0.86860204

00:09:09.960 --> 00:09:12.976 We found that a single dose vaccine that

NOTE Confidence: 0.86860204

00:09:12.976 --> 00:09:14.837 provides protection over an indefinite

NOTE Confidence: 0.86860204

00:09:14.837 --> 00:09:17.259 period could have an efficacy of 55%

NOTE Confidence: 0.86860204

00:09:17.260 --> 00:09:19.962 and invert as many infections over a

NOTE Confidence: 0.86860204

00:09:19.962 --> 00:09:22.730 six month period as that 95% two dose

NOTE Confidence: 0.86860204

00:09:22.730 --> 00:09:24.920 vaccine series and if efficacy wanes,

NOTE Confidence: 0.86860204

00:09:24.920 --> 00:09:26.750 obviously that's an important consideration.

NOTE Confidence: 0.86860204

00:09:26.750 --> 00:09:28.294 Well then, even uh.

NOTE Confidence: 0.86860204

00:09:28.294 --> 00:09:28.995 Duration, mean,

NOTE Confidence: 0.86860204

00:09:28.995 --> 00:09:30.570 duration of efficacy of 75%,

NOTE Confidence: 0.86860204

00:09:30.570 --> 00:09:32.768 mean duration of efficacy of six months,

NOTE Confidence: 0.86860204

00:09:32.770 --> 00:09:34.696 rather even a 75% efficacy could

NOTE Confidence: 0.86860204

00:09:34.696 --> 00:09:36.640 avert the same number of infections

NOTE Confidence: 0.86860204

00:09:36.640 --> 00:09:38.125 as a two dose series.
NOTE Confidence: 0.86860204

00:09:38.130 --> 00:09:39.705 Just looking at the advantages
NOTE Confidence: 0.86860204

00:09:39.705 --> 00:09:41.280 of getting immunity more quickly.
NOTE Confidence: 0.86860204

00:09:41.280 --> 00:09:43.135 Not to mention the issues around pacing
NOTE Confidence: 0.86860204

00:09:43.135 --> 00:09:45.059 and speed of vaccine distribution.
NOTE Confidence: 0.86860204

00:09:45.060 --> 00:09:47.328 So one data point again a full
NOTE Confidence: 0.86860204

00:09:47.328 --> 00:09:49.252 paper that's hard to do justice
NOTE Confidence: 0.86860204

00:09:49.252 --> 00:09:50.727 to in a single slide.
NOTE Confidence: 0.86860204

00:09:50.730 --> 00:09:52.515 That helps us to try and think
NOTE Confidence: 0.86860204

00:09:52.515 --> 00:09:54.056 about some of these considerations
NOTE Confidence: 0.86860204

00:09:54.056 --> 00:09:56.569 that might emerge in the weeks and
NOTE Confidence: 0.86860204

00:09:56.569 --> 00:09:58.725 months ahead as we begin thinking
NOTE Confidence: 0.86860204

00:09:58.725 --> 00:10:00.113 about collecting more data.
NOTE Confidence: 0.86860204

00:10:00.120 --> 00:10:01.419 Out windows alternatives.
NOTE Confidence: 0.86860204

00:10:01.419 --> 00:10:04.923 Very briefly and then to try to help
NOTE Confidence: 0.86860204

00:10:04.923 --> 00:10:07.269 us return a closer to schedule,

NOTE Confidence: 0.86860204

00:10:07.270 --> 00:10:10.294 I want to turn to the global context here.

NOTE Confidence: 0.86860204

00:10:10.300 --> 00:10:11.644 Such an important consideration.

NOTE Confidence: 0.86860204

00:10:11.644 --> 00:10:14.041 Lots of our colleagues here at Yale

NOTE Confidence: 0.86860204

00:10:14.041 --> 00:10:15.991 and elsewhere have been thinking much

NOTE Confidence: 0.86860204

00:10:15.991 --> 00:10:18.358 more deeply around the global vaccine story,

NOTE Confidence: 0.86860204

00:10:18.360 --> 00:10:20.040 including my colleagues at over,

NOTE Confidence: 0.86860204

00:10:20.040 --> 00:10:21.148 who's up next year.

NOTE Confidence: 0.86860204

00:10:21.148 --> 00:10:23.233 But it's such an important part of

NOTE Confidence: 0.86860204

00:10:23.233 --> 00:10:25.078 this broader policy and politics

NOTE Confidence: 0.86860204

00:10:25.078 --> 00:10:27.100 conversation around around covid vaccines.

NOTE Confidence: 0.86860204

00:10:27.100 --> 00:10:29.068 BMJ published two very nice papers

NOTE Confidence: 0.86860204

00:10:29.068 --> 00:10:30.790 earlier this year last month.

NOTE Confidence: 0.86860204

00:10:30.790 --> 00:10:32.630 Actually in December. Looking at.

NOTE Confidence: 0.86860204

00:10:32.630 --> 00:10:34.620 The marketplace of vaccine reservations

NOTE Confidence: 0.86860204

00:10:34.620 --> 00:10:37.250 that exist for covid 19 vaccines.

NOTE Confidence: 0.86860204

00:10:37.250 --> 00:10:39.225 The countries that are procured
NOTE Confidence: 0.86860204

00:10:39.225 --> 00:10:41.870 vaccines how many have been procured.
NOTE Confidence: 0.86860204

00:10:41.870 --> 00:10:43.970 The the vaccine supply anticipated
NOTE Confidence: 0.86860204

00:10:43.970 --> 00:10:45.230 for a vaccination.
NOTE Confidence: 0.86860204

00:10:45.230 --> 00:10:48.170 Programs in low and middle income countries,
NOTE Confidence: 0.86860204

00:10:48.170 --> 00:10:49.355 particularly through international
NOTE Confidence: 0.86860204

00:10:49.355 --> 00:10:49.750 collaborations.
NOTE Confidence: 0.86860204

00:10:49.750 --> 00:10:52.441 In one paper and the other looked
NOTE Confidence: 0.86860204

00:10:52.441 --> 00:10:53.778 at the demand, you know,
NOTE Confidence: 0.86860204

00:10:53.778 --> 00:10:55.626 tried to measure what the actual need,
NOTE Confidence: 0.86860204

00:10:55.630 --> 00:10:57.604 the demand for these vaccines will be
NOTE Confidence: 0.86860204

00:10:57.604 --> 00:10:59.455 a globally depending on how we think
NOTE Confidence: 0.86860204

00:10:59.455 --> 00:11:00.883 about high priority groups or how
NOTE Confidence: 0.84265244

00:11:00.937 --> 00:11:01.957 we cast broader Nets.
NOTE Confidence: 0.84265244

00:11:01.960 --> 00:11:03.780 And they asked me to write a
NOTE Confidence: 0.84265244

00:11:03.780 --> 00:11:05.067 companion tutorial that I'll close

NOTE Confidence: 0.84265244

00:11:05.067 --> 00:11:06.867 with here just to return us to the

NOTE Confidence: 0.84265244

00:11:06.923 --> 00:11:08.988 issue of of politics and policy in

NOTE Confidence: 0.84265244

00:11:08.988 --> 00:11:10.408 those intersections that I study.

NOTE Confidence: 0.84265244

00:11:10.408 --> 00:11:11.728 In most of my work,

NOTE Confidence: 0.84265244

00:11:11.730 --> 00:11:13.834 and as as we know here at this,

NOTE Confidence: 0.84265244

00:11:13.840 --> 00:11:15.160 at this moment of transition,

NOTE Confidence: 0.84265244

00:11:15.160 --> 00:11:16.590 and at this important inflection

NOTE Confidence: 0.84265244

00:11:16.590 --> 00:11:18.020 point in our vaccination effort

NOTE Confidence: 0.84265244

00:11:18.073 --> 00:11:19.477 here in the United States and

NOTE Confidence: 0.84265244

00:11:19.477 --> 00:11:20.770 around the world, you know.

NOTE Confidence: 0.84265244

00:11:20.770 --> 00:11:22.245 We know that how important

NOTE Confidence: 0.84265244

00:11:22.245 --> 00:11:23.830 this spirit of solidarity,

NOTE Confidence: 0.84265244

00:11:23.830 --> 00:11:24.510 global collaboration,

NOTE Confidence: 0.84265244

00:11:24.510 --> 00:11:25.530 but particularly leadership,

NOTE Confidence: 0.84265244

00:11:25.530 --> 00:11:27.005 from from high income wealthy

NOTE Confidence: 0.84265244

00:11:27.005 --> 00:11:28.949 countries will be to the success
NOTE Confidence: 0.84265244

00:11:28.949 --> 00:11:30.609 of global vaccination efforts,
NOTE Confidence: 0.84265244

00:11:30.610 --> 00:11:32.310 both in the financial, logistical,
NOTE Confidence: 0.84265244

00:11:32.310 --> 00:11:34.000 technical way as important partners.
NOTE Confidence: 0.84265244

00:11:34.000 --> 00:11:36.373 If we're going to have an equitable
NOTE Confidence: 0.84265244

00:11:36.373 --> 00:11:37.390 global vaccine rollout,
NOTE Confidence: 0.84265244

00:11:37.390 --> 00:11:39.090 and as I know here,
NOTE Confidence: 0.84265244

00:11:39.090 --> 00:11:41.306 I think we're at a point where the
NOTE Confidence: 0.84265244

00:11:41.306 --> 00:11:43.355 re engagement of the United States
NOTE Confidence: 0.84265244

00:11:43.355 --> 00:11:45.145 in that global health community
NOTE Confidence: 0.84265244

00:11:45.145 --> 00:11:47.054 beginning tomorrow with the return
NOTE Confidence: 0.84265244

00:11:47.054 --> 00:11:48.914 to the World Health Organization,
NOTE Confidence: 0.84265244

00:11:48.920 --> 00:11:51.152 and hopefully what that signals for
NOTE Confidence: 0.84265244

00:11:51.152 --> 00:11:53.130 COVID-19 vaccine efforts globally as well.
NOTE Confidence: 0.84265244

00:11:53.130 --> 00:11:55.138 It is a very favorable signal that will
NOTE Confidence: 0.84265244

00:11:55.138 --> 00:11:56.970 certainly not solve their problems ahead,

NOTE Confidence: 0.84265244

00:11:56.970 --> 00:11:58.946 but will be really valuable in getting us

NOTE Confidence: 0.84265244

00:11:58.946 --> 00:12:01.349 in the right direction on the global front.

NOTE Confidence: 0.84265244

00:12:01.350 --> 00:12:03.342 So with that I will conclude I'm happy

NOTE Confidence: 0.84265244

00:12:03.342 --> 00:12:05.189 to follow up individually by email.

NOTE Confidence: 0.84265244

00:12:05.190 --> 00:12:06.828 There's my Twitter handle as well,

NOTE Confidence: 0.84265244

00:12:06.830 --> 00:12:09.021 and thanks again for the opportunity to

NOTE Confidence: 0.84265244

00:12:09.021 --> 00:12:11.657 be part of this group this afternoon.

NOTE Confidence: 0.84265244

00:12:11.660 --> 00:12:12.052 Thank you.