



WORLD MEDICAL INNOVATION FORUM REPORT

1400 Global Leaders' Views on COVID-19, Society and Healthcare

WORLD MEDICAL INNOVATION FORUM

 **Mass General Brigham**

The World Medical Innovation Forum convened more than 6000 thought leaders and influencers from around the world at its sixth annual meeting, generating robust discussion on the impact of COVID-19 and the future of medicine. The virtual meeting explored technologies driving response to COVID-19, how medicine is being reinvented real-time, and how the urgency of today may shape the future of healthcare systems. Mass General Brigham's Harvard faculty, industry experts, and leading investors analyzed the challenges and opportunities ahead, along with attendees from government, academia, clinical care, industry and finance.

Throughout the event, participants were polled on how COVID-19 is impacting healthcare and society and their beliefs about the future. Optimism about potential positive impacts on healthcare, such as a sustained role for telemedicine and the roll-back and compression of regulatory processes for advancing new therapeutics and vaccines, is offset by less favorable views on the long-term societal and economic impact of COVID-19.

The World Medical Innovation Forum, presented by Mass General Brigham, is pleased to share the following insights drawn from the poll results, toward the goal of sparking further ideas and collaboration among healthcare systems, industry, investors and government.

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World Medical Innovation Forum

Poll Findings

Successfully Adapting

While the pandemic is having significant impact on people's lives and outlooks, most respondents feel they have adapted to the COVID-19 environment.

- **82 percent** of Mass General Brigham employees, **77 percent** of physicians, **79 percent** of venture experts and **77 percent** of CEOs surveyed felt the impact from COVID-19 was significant but that they have adapted their personal and professional lives accordingly.

Working Remotely

In general, respondents say they have been equally or more productive working remotely. However, one group, physicians, view their productivity slightly more negatively compared to CEOs and venture experts.

- **78 percent** of CEOs and **80 percent** of venture experts reported the same or higher levels of productivity working remotely.
- **44 percent** of physicians surveyed reported being equally or more productive working remotely, while **38 percent** of physicians surveyed believe their productivity has decreased working remotely.

Tracking Geographic Variation

Personal experience with someone contracting COVID-19 such as a close friend, family member or colleague varies by location.

- For U.S.-based respondents, **41 percent** had experienced the impact of COVID-19 in a personal way, whereas just **28 percent** of non-U.S.-based respondents had the same experience.
- Respondents from the Northeast region of the U.S. topped the findings for having had a friend, family member or colleague contract COVID-19 (**44 percent**) compared to **27 percent** for the West and Midwest.
- Regarding testing, **14 percent** of non-U.S.-based responders believe an effective testing system will be in place in their region before the end of June 2020 while just **8 percent** of U.S.-based responders believe the same of their region.

Virtual Visits Gaining Traction

Offsetting the decrease in perceived physician productivity, telemedicine uptake may be on the rise. Respondents generally think there will be an increase in patients' desire to use telemedicine to receive clinical care. All the CEOs responding (**100 percent**) expect at least some increase in telemedicine for clinical care, while **98 percent** of the venture experts and **97 percent** of Mass General Brigham employees agreed.

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About This Poll

These findings reflect data generated by a continuous mix and number of participants attending the World Medical Innovation Forum's day-long event on Monday, May 11, 2020. As such, the results reflect general sentiment from a cohort of participants in certain audience categories, and are not intended to represent statistically valid findings for each population type.

Total event registration = 12,000

Average participation = 7,500

Average response rate per question = 1,400



The Duration of COVID-19

The data also highlight a disconnect between physicians and non-physicians regarding expectations of both the duration and impact of the pandemic and associated measures.

- Respondents are divided on how long they expect to be wearing a mask in public, but the majority (**57 percent** overall) expect to wear a mask for at least the next year. Indeed, **66 percent** of Mass General Brigham employees, **62 percent** of CEOs and **54 percent** of venture expect to wear a mask for at least a year.
- A significantly larger portion of physicians—more than **71 percent** of those surveyed—expect to wear a mask for at least a year, compared to just **56 percent** of non-physicians. And at two years out, expectations for wearing masks drop to just **21 percent** among CEOs.

Respondents were generally split on societal conditions after COVID-19 subsides, with **50 percent** of total respondents believing society will be as it was or improved, and **50 percent** believing society will be materially diminished. Even across multiple sectors, a similar split persists: **51 percent** of venture and **49 percent** of CEOs believe society will be materially diminished because of the pandemic. However, a significantly larger portion of physicians—more than **77 percent** of those surveyed—believe society will be materially impacted.

Respondents were generally split on societal conditions after COVID-19 subsides, with **50 percent** of total respondents believing society will be as it was or improved, and **50 percent** believing society will be materially diminished.

I expect to be wearing a mask outside of my home for the:

Non-Physician



Physician/Clinician



- 0% 50% 100%
- I do not expect to need or be required to wear a mask after June 1, 2020
 - Next three months
 - Next six months
 - Next year
 - Next 2 years

$n_{phys} = 42$ $n_{else} = 1378$

After COVID-19 subsides I expect society in the U.S. to:

Non-Physician



Physician/Clinician



0% 50% 100%

- Be as it was pre-COVID-19
- Be improved - e.g. increased wellness and sense of community
- Be materially diminished - e.g. structural unemployment reduced optimism

$n_{phys} = 44$ $n_{else} = 1466$



Government Investment and Regulation Post-COVID

Respondents largely expect an increase in U.S. government resources devoted to public health going forward. **80 percent** of U.S.-based responders, **78 percent** of non-U.S.-based responders, **83 percent** of CEOs, and **86 percent** of venture experts expect an increase.

While there's consensus that both U.S. and non-U.S.-based responders are expecting increases in government expenditures on public health non-U.S.-based responders are expecting slightly more significant changes:

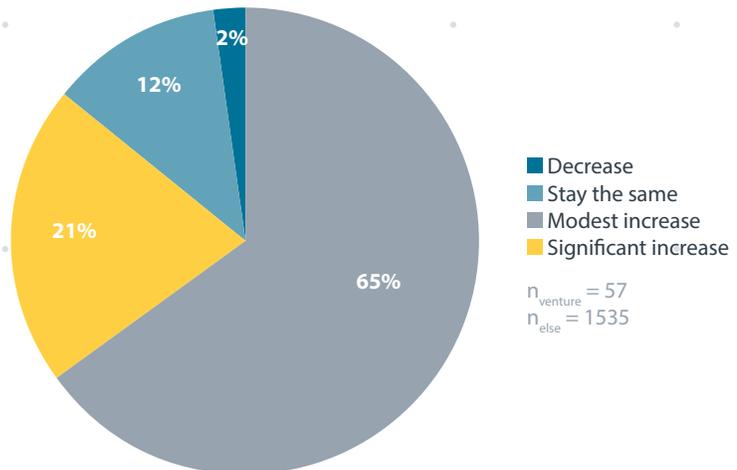
- **31 percent** of non-U.S.-based responders expect a significant increase, while just **22 percent** of U.S.-based responders expect the same.

Regarding the regulatory environment, respondents overall think pandemic-related healthcare regulatory exemptions and rollbacks are temporary measures prompted by the outbreak. **60 percent** of Mass General Brigham employees, **59 percent** of physicians, **66 percent** of CEOs, and **70 percent** of venture experts believe these measures are temporary and will return to pre-COVID-19 standards.

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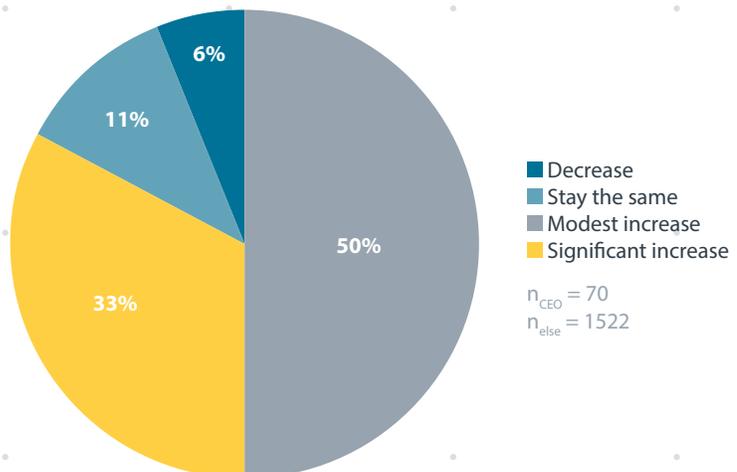
VENTURE EXPERTS

Do you expect a shift of U.S. government healthcare resources to substantially increased spending on public health/prevention?



CEOs

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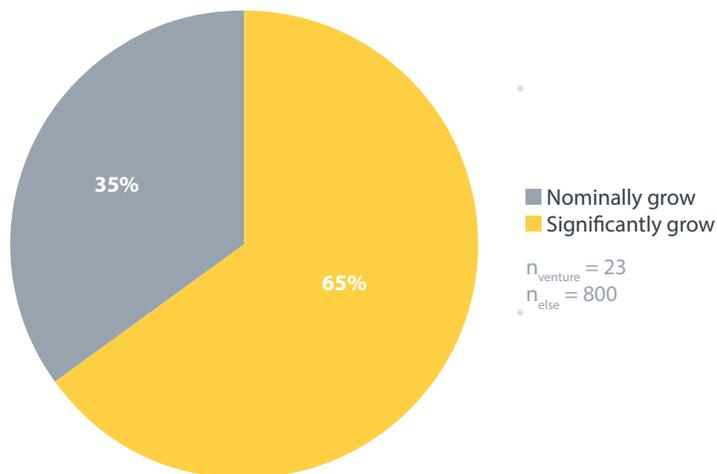
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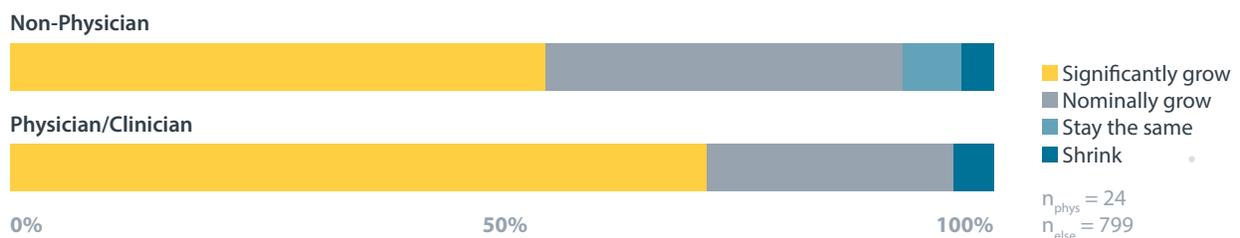
Supply Chain Expansion

Given the COVID-19 impact on PPE and other equipment availability, most respondents are expecting an increase in domestic medical supply chains in the next three years, with **91 percent** of total respondents expecting at least some movement toward repatriating these pipelines. **90 percent** of CEOs and **100 percent** of venture experts expect at least some growth. Furthermore, **67 percent** of CEOs and **65 percent** of venture expect significant growth.

In the next three years domestic medical supply chains compared to international supply chains will:



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Investment Outlook

Respondents generally think the level of investment in U.S. biopharma will increase in the next year with **73 percent** of CEOs and **82 percent** of venture experts expecting an increase in investment in this area.

The data also highlight a subtle but important gap regarding investment in infectious disease monitoring between what respondents think should happen and what they think will happen. Respondents generally believe investment in this space ought to increase; however, fewer of them believe it will, especially by the amount they think it ought to.

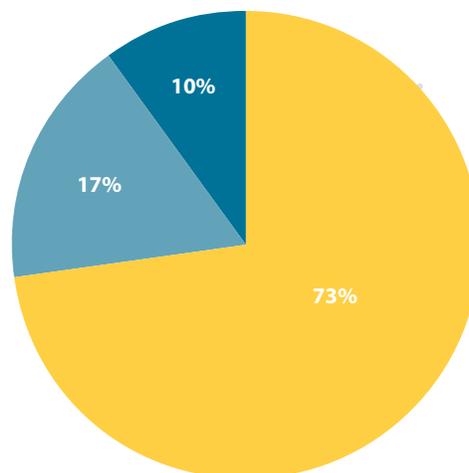
- **98 percent** of CEOs and **95 percent** of venture think investment should increase. Yet, only **82 percent** of CEOs and **84 percent** of non-CEO venture think it will increase.
- **4 percent** of CEOs surveyed believe investment will decrease, despite none believing it should.
- **80 percent** of CEOs and **75 percent** of non-CEO venture experts surveyed believe investment in infectious disease monitoring should increase by more than **20 percent**, compared to just **57 percent** of other respondents.

Regarding future GDP, **38 percent** of U.S.-based participants surveyed believe the U.S. GDP will grow in 2021, whereas only **30 percent** of non-U.S.-based participants believe the same.

The U.S. pharmaceutical and biotech investment level in the next year should:

- Decrease
- Stay the same
- Increase

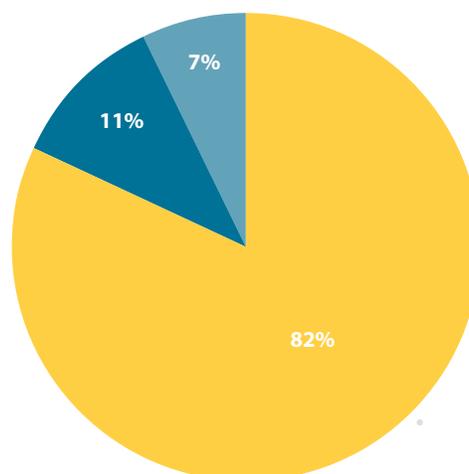
n_{CEO} = 48
n_{else} = 946



The U.S. pharmaceutical and biotech investment level in the next year should:

- Decrease
- Stay the same
- Increase

n_{venture} = 28
n_{else} = 966



38 percent of U.S.-based participants believe U.S. GDP will grow in 2021; **30 percent** of non-U.S. attendees believe the same.

Conclusion

While the full implications of COVID-19 are yet to be realized, industry, healthcare and venture experts are grappling with the pandemic's profound impact on society, the economy, and long-term investment. Understanding a transformed landscape and accelerating collaborative innovation will be critical to recovery.





CEO VIEWPOINTS

83%

of CEOs surveyed expect an overall increase in government spending on public health (compared to 80% of non-CEOs)

32%

of CEOs surveyed think COVID-19 regulatory exemptions/rollbacks are not temporary measures (compared to 28% of non-CEOs)

70%

of CEOs surveyed believe their administrative-related physical footprint will shrink by 10% or more (compared to 68% of non-CEOs)

37%

expect their footprint to shrink by more than 25% (compared to 22% of non-CEOs)

67%

of CEOs surveyed think domestic medical supply chains will significantly grow (compared to 54% of non-CEOs)

73%

of CEOs surveyed think biopharma investment will increase in the next year (compared to 77% of non-CEOs)

Average responses per question from CEOs: 58

Average responses per question from non-CEOs: 1,266





VENTURE EXPERTS

86%

of venture experts surveyed expect an increase in government spending on public health

18%

of venture experts surveyed think COVID-19 regulatory exemptions/rollbacks are not temporary measures

59%

of venture experts surveyed expect their administrative-related physical footprint to shrink by 10% or more
(compared to 69% of non-CEOs)

32%

expect it to shrink by more than 25%
(compared to 23% of non-CEOs)

100%

of venture experts surveyed think domestic medical supply chains will grow
(compared to 91% of non-venture)

82%

of venture experts surveyed think pharma/biotech investment will grow in the next year
(compared to 76% of non-venture)

Average responses per question from venture: 45

Average responses per question from non-venture: 1,300





PHYSICIANS

38%

of physicians surveyed said working remotely has decreased their productivity
(compared to 20% of non-physicians)

18%

of physicians surveyed said remote work does not apply to them
(compared to 8% of non-physicians)

71%

of physicians surveyed expect to be wearing a mask for at least another year
(compared to only 56% of non-physicians)

77%

of physicians surveyed expect society in the U.S. to be materially diminished after COVID-19
(compared to 49% of non-physicians)

96%

of physicians surveyed believe domestic medical supply chains will grow, and

71%

believe they will grow significantly
(compared to 91% of non-physicians for overall growth and 54% of non-physicians for significant growth)

Average number of responses per question from physicians: 48

Average number of responses per question from non-physicians: 1,461



About the Poll

The poll was conducted during the World Medical Innovation Forum held Monday, May 11, 2020.

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Average participation = 7,500.

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worldmedicalinnovation.org

Our collective mission: finding solutions to the ethical, medical, operational, and economic challenges confronting AI-driven care to ensure that patients, providers, and healthcare organizations benefit as soon as possible.

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