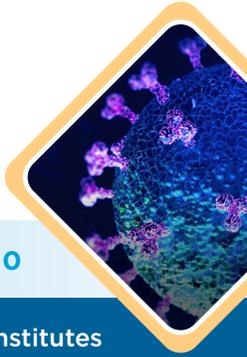


AN UNPRECEDENTED IMPACT

A SERIES OF FACT SHEETS ON COVID-19 AND BIOMEDICAL RESEARCH

OCTOBER 2020



We must maintain and strengthen our nation's investment in medical research through the National Institutes of Health. This is an urgent priority for Congress, as our nation works to restart stalled research, keep up with pressing public health challenges, continue to fight COVID-19 and prepare for the next potential pandemic.

PART 4 | NIH DRIVING PROGRESS

The NIH is a driving force in the global effort to understand, treat and eradicate COVID-19. In just months, progress is being made on many fronts thanks to congressional support for supplemental funding for NIH, the collaboration and investments by the life sciences and biopharmaceutical industries and America's longstanding leadership in biomedical research. Despite remarkable progress, much work remains and will require continued congressional prioritization of funding for the NIH.

\$ SUPPLEMENTAL FUNDING TO NIH TO ADDRESS COVID-19

\$836 million

Coronavirus Preparedness and Response Supplemental Appropriations Act

MARCH 5

\$945 million

CARES Act

MARCH 27

\$1.8 billion

Paycheck Protection Program and Healthcare Enhancement Act

APRIL 24

Source: KKF.org

COORDINATING DEVELOPMENT OF CRITICAL TOOLS

NIH launched two programs in April to speed development of COVID-19 vaccines, treatments and diagnostic tests

ACTIV: Accelerating COVID-19 Therapeutic Interventions and Vaccines

AS OF SEPTEMBER 10



3 Vaccines in trials using harmonized protocols informed by ACTIV



5 Trials of therapeutics using ACTIV protocols

Source: NIH

RADx: Rapid Acceleration of Diagnostics

AS OF SEPTEMBER 20

RADx Tech Dashboard* Program | 708 PROPOSALS

✓ **15 In Progress** undergoing initial review

✓ **131 Deep Dive conversations** to ID risks and milestones

✓ **45 Phase 1** proposals selected, undergoing de-risking

✓ **16 Phase 2** proposals selected for further development, manufacturing and distribution support

NIH-SUPPORTED COVID-19 RESEARCH



982 grants

totaling **\$1.7 billion** awarded by NIH

THROUGH SEPTEMBER 12

506 via Regular Appropriations

314 via Coronavirus Preparedness and Response Supplemental Appropriations

123 via CARES Act

40 via Paycheck Protection Program and Healthcare Enhancement Act

Source: NIH

MONITORING THE IMPACT ON PATIENTS



Alzheimer's Association announces global effort to track impact of COVID-19 on the brain

.....

Pandemic's impact on cancer patients and survivors

.....

A history of stroke associated with death of hospitalized patients with COVID-19, study finds

UNPRECEDENTED IMPACT, *cont.*

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PROGRESS TOWARD TREATMENTS

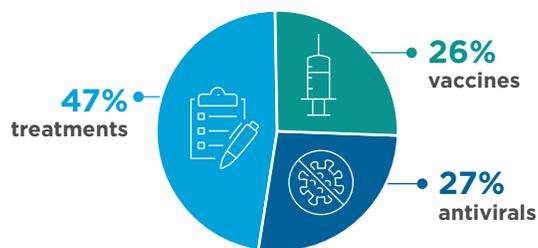
DEVELOPMENT

739 unique compounds

in development globally

↑ up from **548** in June

more than half involve U.S.-based companies



Source: [BIO](#) | As of September 28

CLINICAL TRIALS

1,597 clinical trials

testing COVID-19 treatments & vaccines

↑ up from **1,100** in June

- ✓ 360+ trials in the United States
- ✓ 99 clinical trials testing **34 vaccine candidates**
- ✓ 200+ trials are testing novel compounds and 955 trials are testing medicines approved for other indications

Source: [PhRMA](#) | As of September 11

DIAGNOSTIC TESTS

170 million total U.S. shipments

of COVID-19 molecular diagnostic tests to date

↑ **1.2 million** = daily shipments
up from **600,000** in May

Source: [AdvaMed](#) | As of September 25



COVID-19 RESEARCH FROM AROUND THE COUNTRY

Never before has so much research energy and effort been deployed to understand, detect, and fight a single virus.



BU scientists are studying the biological domino effect SARS-CoV-2 sets off



Sticker-like medical device developed by **Northwestern team** streams COVID-19 symptom data to physicians



Vanderbilt researchers find streamlined diagnostic approach for COVID-19 avoids a potential testing logjam



VUMC-led study for CDC finds COVID-19 antibodies drop substantially in the weeks following infection



Washington University COVID-19 saliva test is faster, simpler and enables screening on a massive scale



MIT robot could reduce health care workers' exposure to Covid-19 virus



Odor-sensing cells in nose seen as key entry point for SARS-CoV-2, **Johns Hopkins study** finds



Penn researchers create database of drugs used to treat COVID-19 to find promising leads



Vaping linked to COVID-19 risk in teens and young adults, according to **Stanford study**



Children's role in spread of virus bigger than thought, **Harvard study** finds