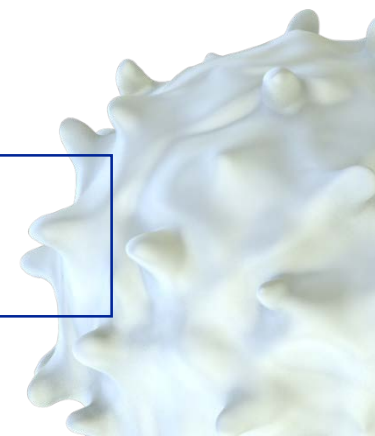


COVID-19 R&D



Forward-Looking Statements and Other Notices

Our discussions during Pfizer's Investor Day include forward-looking statements about our anticipated future operating and financial performance, business plans and prospects; expectations for our product pipeline, in-line products and product candidates, including anticipated regulatory submissions, data read-outs, study starts, approvals, revenue contribution, growth, performance, timing of exclusivity and potential benefits; manufacturing and product supply; our efforts to respond to COVID-19, including our investigational vaccine candidate against SARS-CoV-2 and our investigational protease inhibitor, and our expectations regarding the impact of COVID-19; our ability to successfully capitalize on growth opportunities and prospects; plans for and prospects of our acquisitions and other business development activities, including our proposed transaction with Mylan N.V. (Mylan) to combine Upjohn and Mylan to create a new global pharmaceutical company; plans relating to share repurchases and dividends; and other statements about our business, operations and financial results that are each subject to substantial risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements. Among other things, statements regarding revenue and earnings per share growth; the development or commercial potential of our product pipeline, in-line products, product candidates and additional indications, including expected clinical trial protocols, the timing of the initiation and progress of clinical trials and data read-outs from trials; the timing for the submission of applications for and receipt of regulatory approvals; expected breakthrough, best or first-in-class status, blockbuster status of our medicines or vaccines; and the impact of anticipated improvements to our clinical operation performance are forward-looking and are estimates that are subject to change and clinical trial and regulatory success. These statements are subject to risks, uncertainties and other factors that may cause actual results to differ materially from past results, future plans and projected future results. Additional information regarding these and other factors can be found in Pfizer's Annual Report on Form 10-K for the fiscal year ended December 31, 2019 and in our subsequent reports on Form 10-Q, including in the sections thereof captioned "Risk Factors" and "Forward-Looking Information and Factors That May Affect Future Results", as well as in our subsequent reports on Form 8-K, all of which are filed with the U.S. Securities and Exchange Commission and available at www.sec.gov and www.pfizer.com. Potential risks and uncertainties also include the impact of COVID-19 on our sales and operations, including impacts on employees, manufacturing, supply chain, marketing, research and development and clinical trials. The forward-looking statements in these presentations speak only as of the original date of the presentation and we undertake no obligation to update or revise any of these statements. Today's discussions and presentations are intended for the investor community only; they are not intended to promote the products referenced herein or otherwise influence healthcare prescribing decisions. All trademarks in today's presentations are the property of their respective owners.



Breakthroughs that
change patients' lives

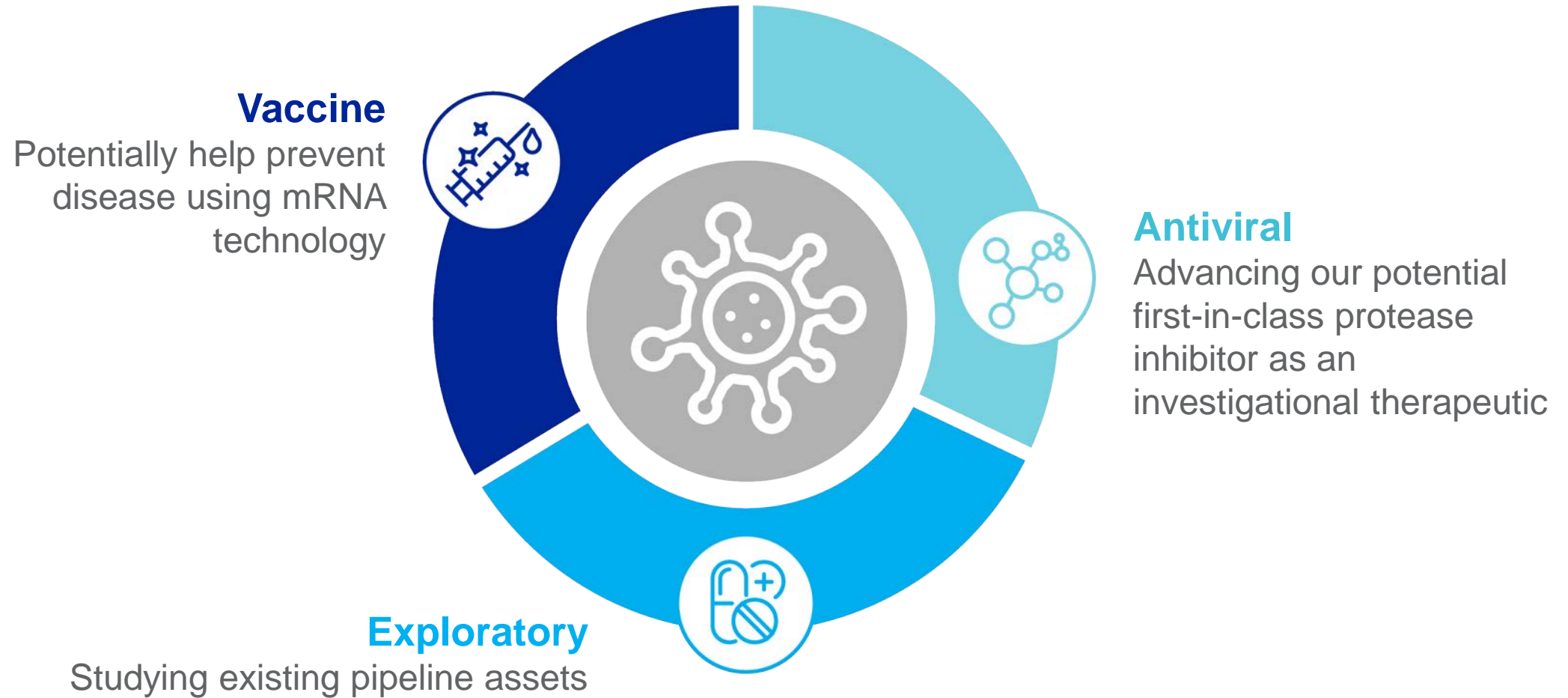


Mikael Dolsten, MD, PhD

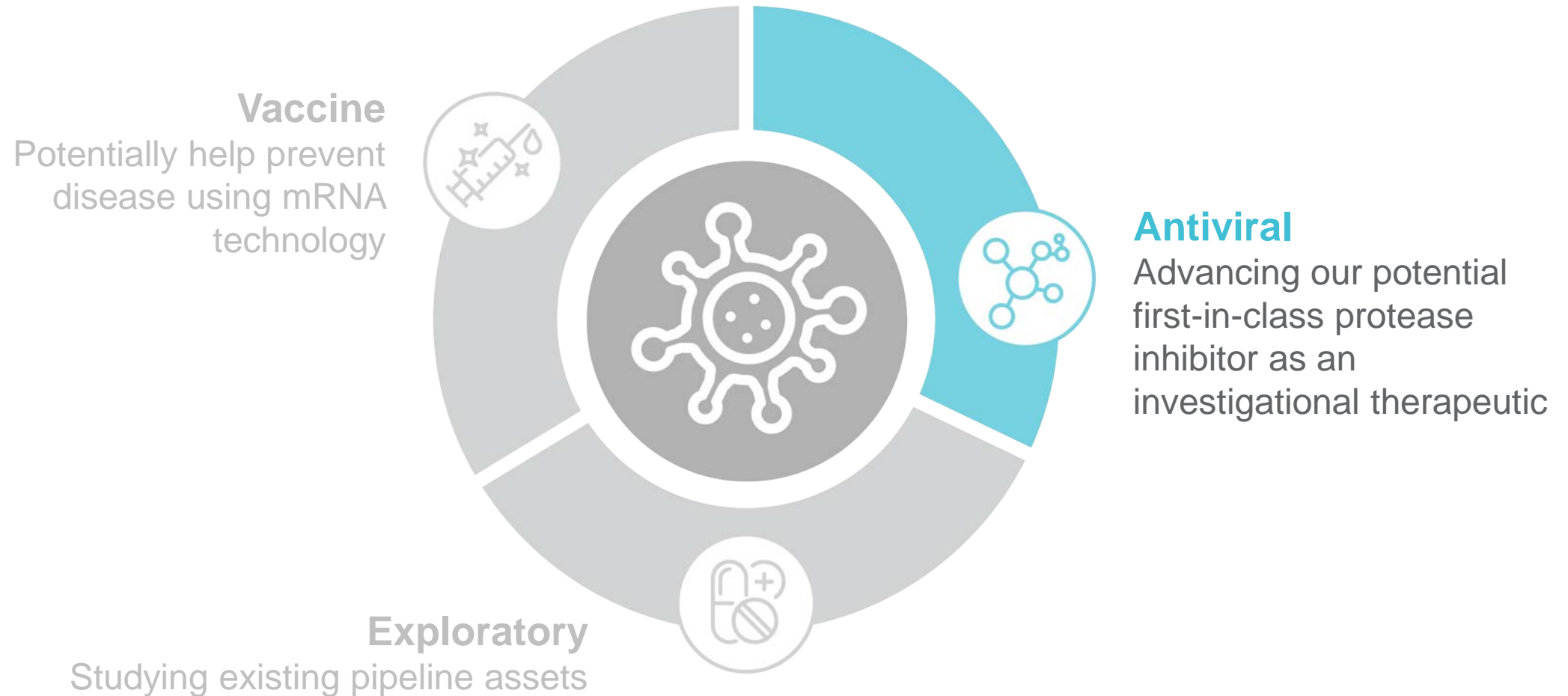
Chief Scientific Officer and President,
Worldwide Research Development and Medical (WRDM)



Pfizer's Multi-Faceted Response to the COVID-19 Pandemic

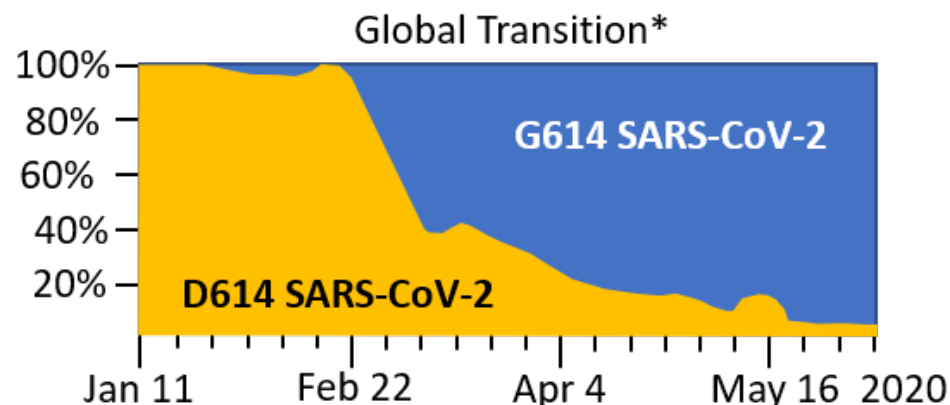


Pfizer's Multi-Faceted Response to the COVID-19 Pandemic



First in Class SARS-CoV-2 Protease Inhibitor May Provide Novel Treatment Option for COVID-19

PF-00835231 has potent *in vitro* single-agent antiviral activity against circulating SARS-CoV-2 strains



*Korber B et al, Cell 2020; <https://www.eurekalert.org/multimedia/pub/236516.php>.

	EC ₅₀ (nM) in A549-ACE2 Cell Assay ¹	
	Washington	NYU-D614G
PF-00835231	221	184
Remdesivir	442	283

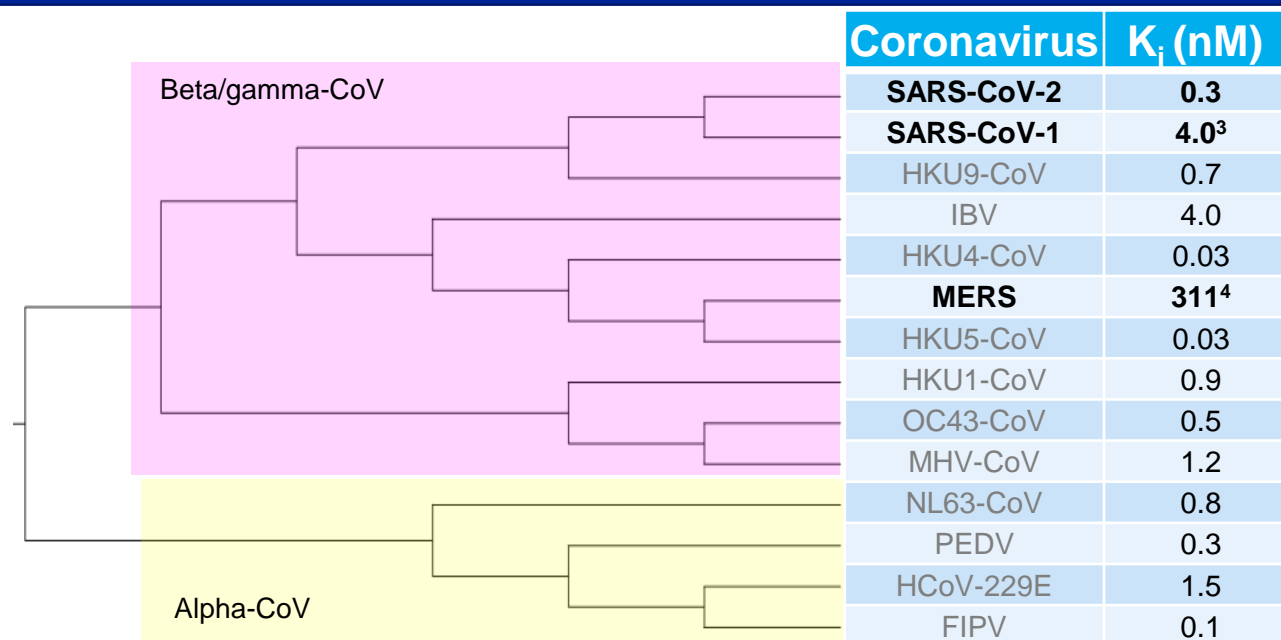
EC₅₀ = The concentration required for a 50% response

1. DeVries et al; bioRxiv 2020.08.28.272880; doi: <https://doi.org/10.1101/2020.08.28.272880>



Breakthroughs that
change patients' lives

PF-00835231 has broad *in vitro* activity against coronavirus threats²



K_i = Apparent inactivation constant at half-maximal rate of inactivation

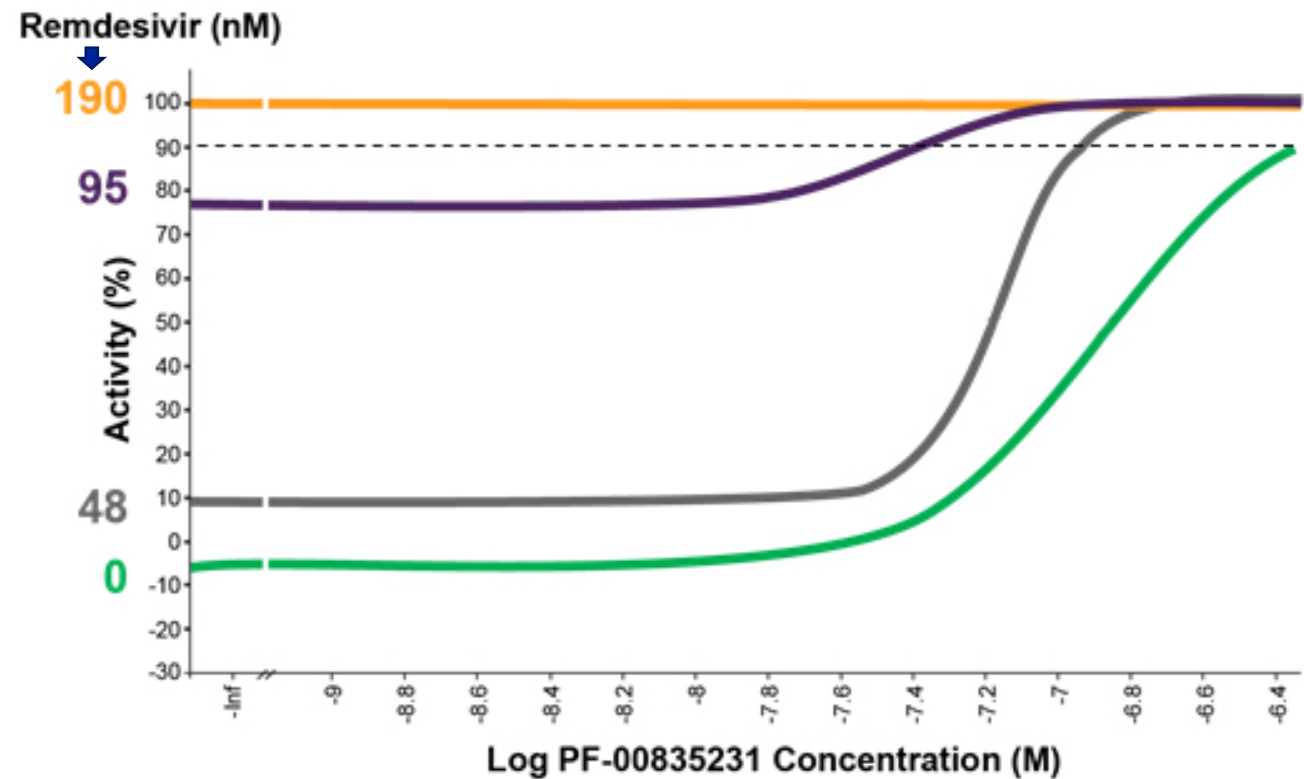
2. Boras et al. 2020. <https://www.biorxiv.org/content/10.1101/2020.09.12.293498v2>

3. Hoffman, R. et al. <https://doi.org/10.26434/chemrxiv.12631496.v1>

4. Unpublished data

In vivo efficacy SARS-CoV-1 and SARS-CoV-2 work ongoing

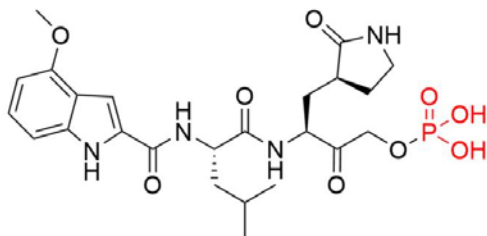
First in Class SARS-CoV-2 Protease Inhibitor has Additive Activity with Remdesivir *In Vitro* Due to Differentiated Mechanism of Action*



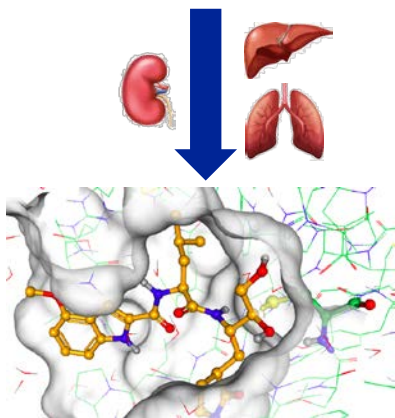
Remdesivir (nM)	EC90 PF-00835231 (nM)
190	<0.78
95	54.5
48	123
0	433

*HELA-ACE2 cell assay
EC90 = The concentration required for a 90% response
Boras et al. 2020. <https://www.biorxiv.org/content/10.1101/2020.09.12.293498v2>

Pfizer Expects Early Clinical Data for this Investigational Intravenous Anti-Viral for Hospitalized COVID-19 Patients in Q4 2020



Solubilizing **phosphate pro-drug**
PF-007304814

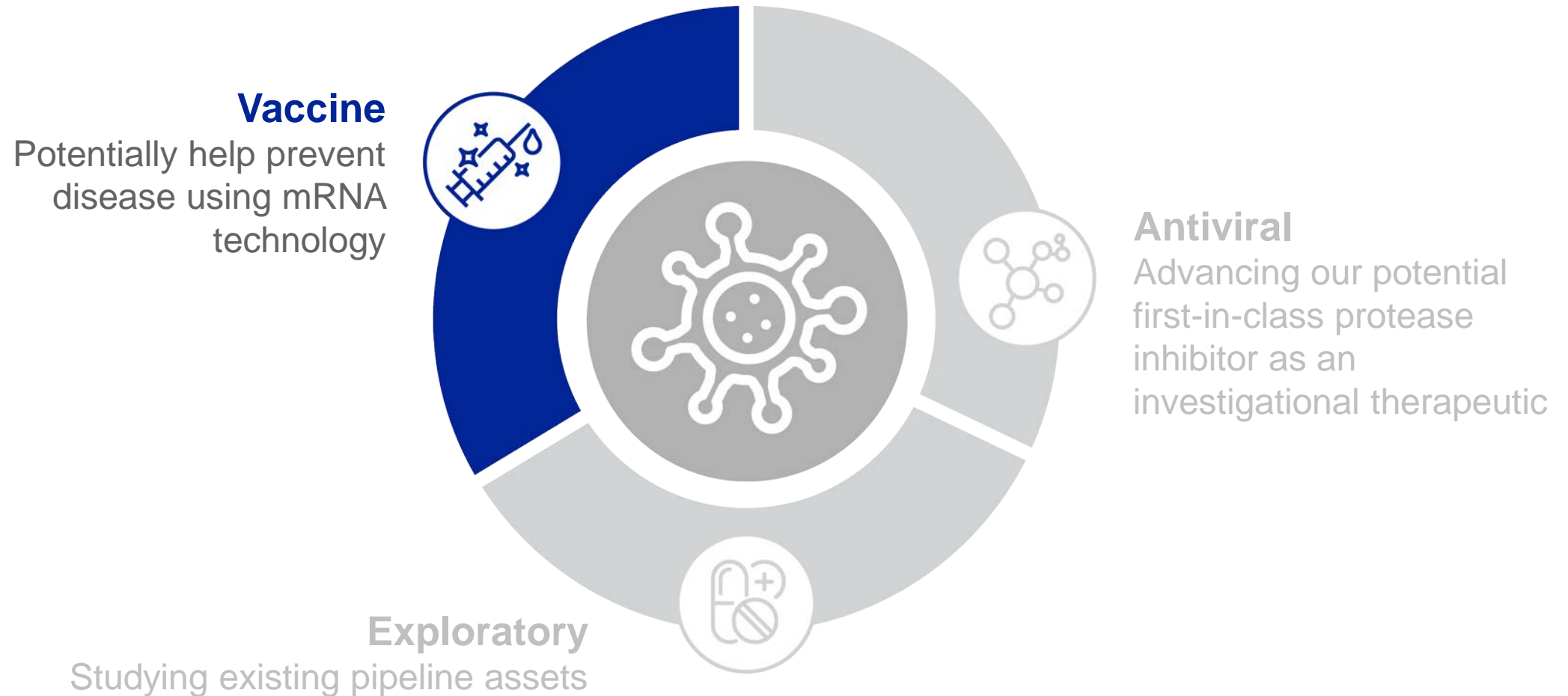


Co-crystal structure of **active drug PF-0835231** bound to the SARS-CoV2-3CL protease

- PF-07304814 is a solubilizing IV pro-drug, designed to deliver the anti-viral active drug PF-00835231 clinically
- Predicted to safely deliver plasma concentrations of PF-00835231 in patients commensurate with multiples of the anti-viral EC₉₀
- PF-07304814 has a good preliminary preclinical safety profile, enabled by > 100 x selectivity for coronavirus 3CL proteases over human proteases
- **Current Status:** IND approved; Phase 1 initiated
- **Next Steps:** PK and early clinical data from Phase 1 available Q4 2020; Phase 2/3 planned start late 2020/early 2021
- **Projected Approval:** 2H 2021

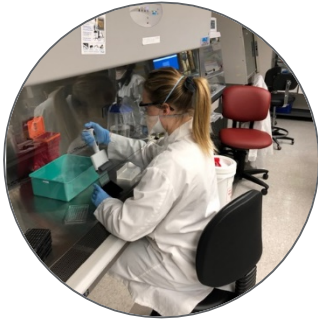
Hoffman, R. et al. <https://doi.org/10.26434/chemrxiv.12631496.v1>

Pfizer's Multi-Faceted Response to the COVID-19 Pandemic



The Potential of BioNTech's mRNA Vaccine Platform*

Safety



Non-infectious and chemically defined, contains no viral foreign proteins; spike antigen encoded in mRNA vaccine produced by the participants' human cells

Efficacy



Broad immune responses based on early data, minimal risk of anti-vector immunity, and permits **frequent boosting**

Speed



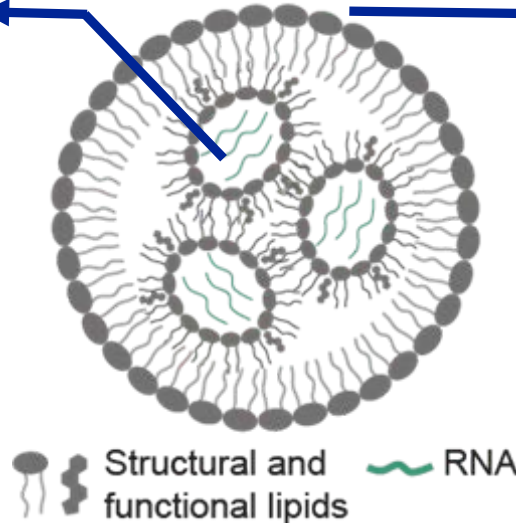
Technology enables **rapid development** and **quick production scaling**

Overview of COVID-19 Lipid Nanoparticle Design

Encapsulated mRNA

- Modified mRNA base structure
- Codon optimized sequence
- Encodes the viral spike protein
- Broad anti-viral spike immune response
- Moderate innate immune activation
- Mostly mild to moderate vaccine reactions

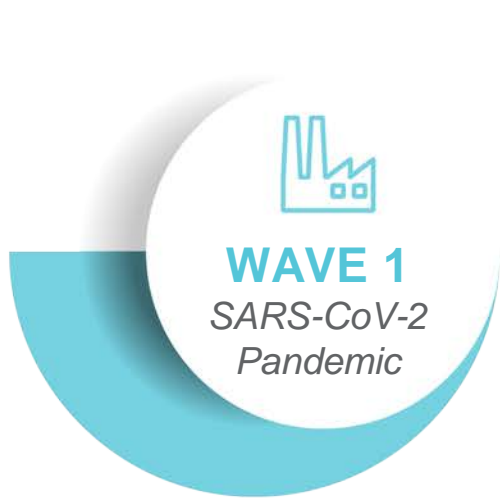
Lipid nanoparticle (LNP)



Lipids

- Chemically defined lipid particle
- No ability to infect and spread
- No foreign viral proteins included
- No vector protein with autoimmune potential
- Robust antibody, CD4+, CD8+ T cell induction
- Low vaccine dose with favorable tolerability

Growth Opportunity with mRNA Platform Across Three Waves



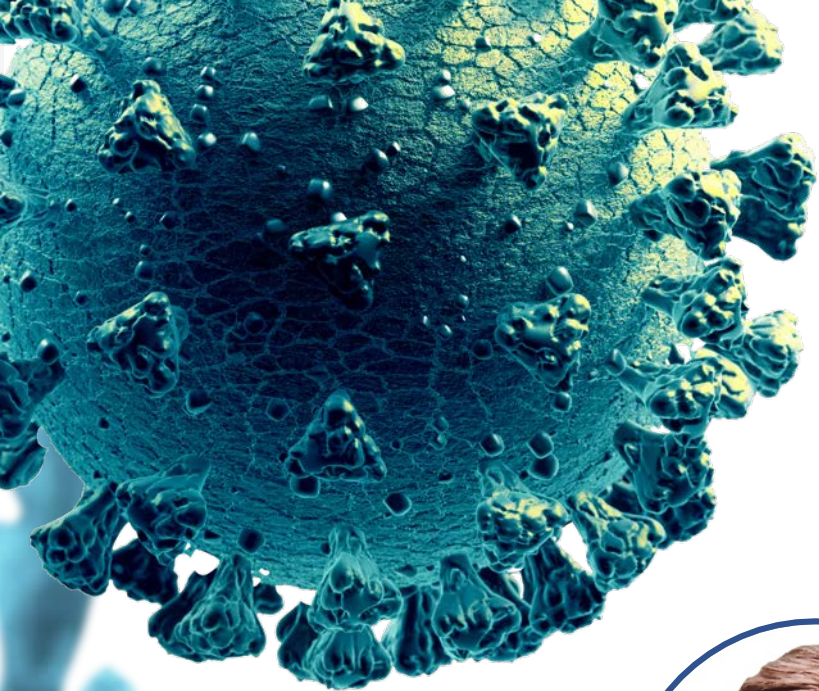
- Cutting-edge design of lipid nanoparticle and modified mRNA
- Favorable safety and tolerability based on data to date
- Virus neutralizing antibodies and antigen specific CD4+ and CD8+ T cells
- Rapid and large-scale manufacturing



- Opportunity for next gen SARS-CoV-2 mRNA vaccine in 2021 with a potentially lower dose and augmented immune response
- Lyophilized formulation candidate for storage at refrigerator temperature
- Rapid adaptation to potentially emerging SARS-CoV-2 S protein sequence variants

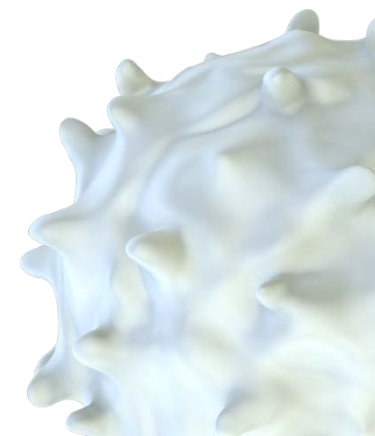


- Opportunity to expand the platform to Flu with a self-amplifying multi-valent vaccine in 2022
- Disrupt current suboptimal Flu vaccine coverage
- Potentially address other viral diseases



Kathrin Jansen, PhD

Senior Vice President &
Head of Vaccine R&D



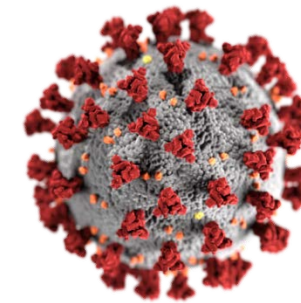
Pfizer and BioNTech COVID-19 mRNA Vaccine Program Overview

Four Vaccine Candidates

Variant	Target	RNA construct	Immunization
162a1	RBD subunit	uRNA	prime / boost
162b1	RBD subunit	modRNA	prime / boost
162b2	P2-mutated full spike protein	modRNA	prime / boost
162c2	P2-mutated full spike protein	saRNA	single injection

uRNA: unmodified mRNA
modRNA: nucleoside modified mRNA
saRNA: self-amplifying mRNA

Selected for pivotal studies



**SARS-COV-2
(3D Model)**

Spike Protein

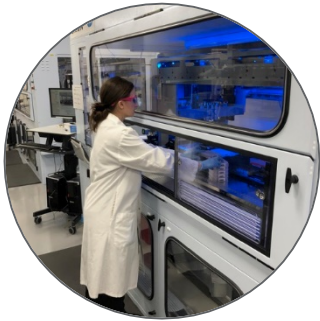


**SARS-COV-2
Spike Protein 3D Structure**
(Wrapp et al., 2020, Science)

Why We Chose BNT162b2 Variant for Pivotal Study

BioNTech mRNA vaccines are designed to induce a broad immune response including immunostimulatory dendritic cell delivery and expression^{1,2}

Challenge Data



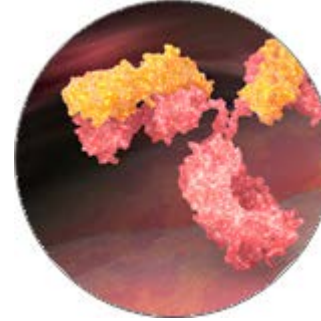
No or only transient viral shedding

Tolerability



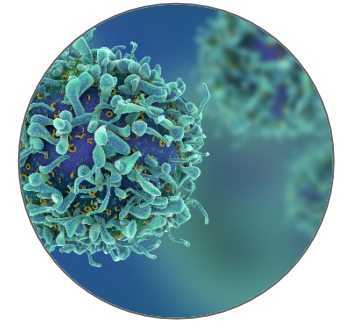
Local reactions and systemic events mostly mild to moderate

Antibody Responses



Strong SARS-CoV-2 neutralizing antibody responses in both younger and older adults

Cellular Responses

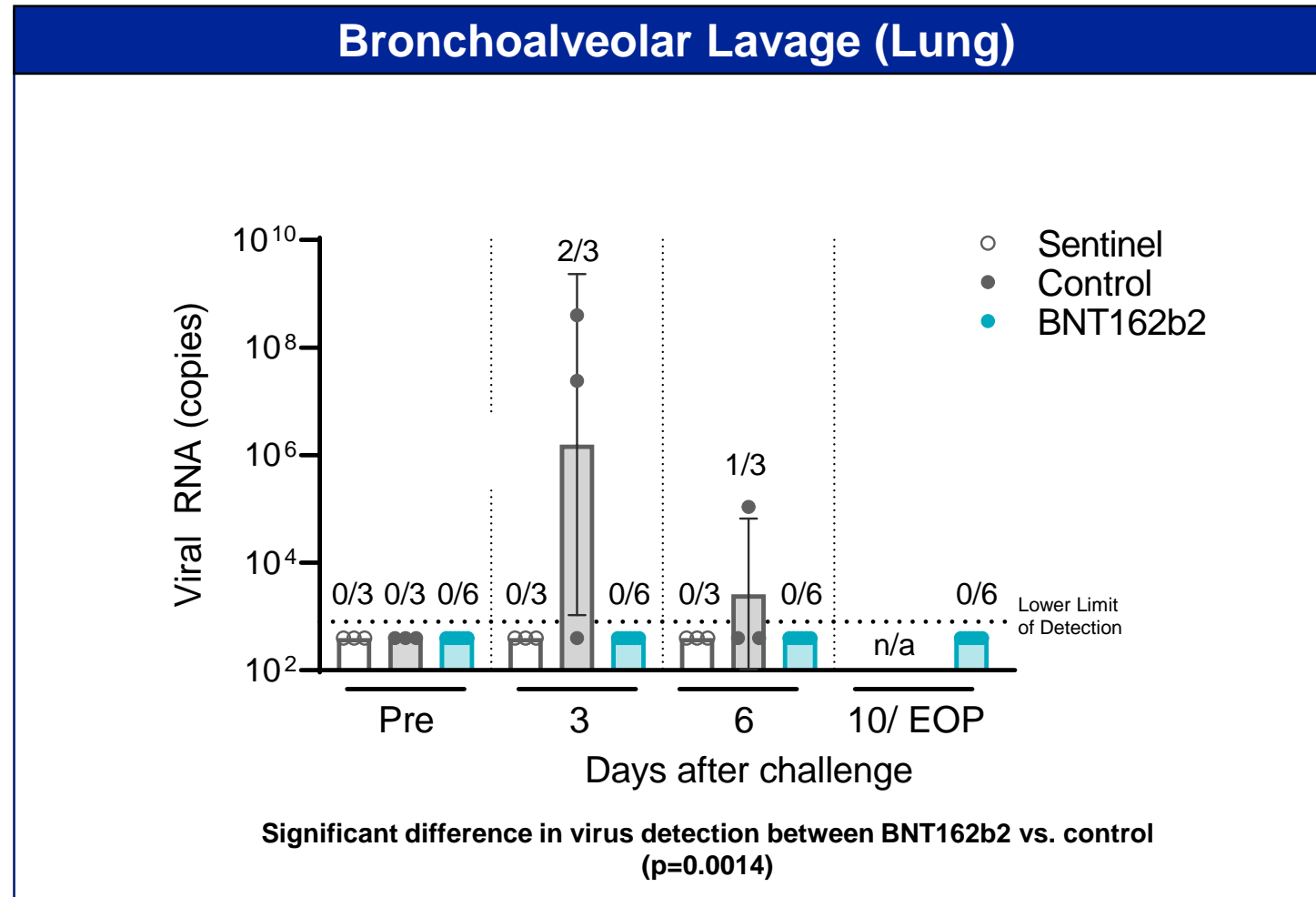


Expansion of multifunctional CD8⁺ and T_H1-type CD4⁺ T cells

1. Modification of antigen-encoding RNA increases stability, translational efficacy, and T-cell stimulatory capacity of dendritic cells. Blood 2006.

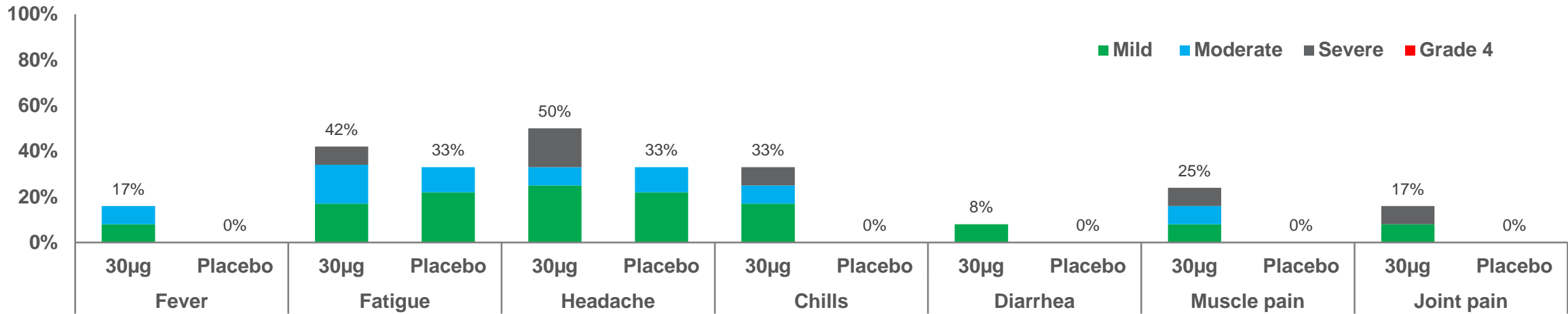
2. Improving mRNA-based therapeutic gene delivery by expression-augmenting 3' UTRs identified by cellular library screening. Molecular Therapy, 2019.

BNT162b2 Immunization Prevents Lung Infection in Rhesus Macaques After Challenge with SARS-CoV-2

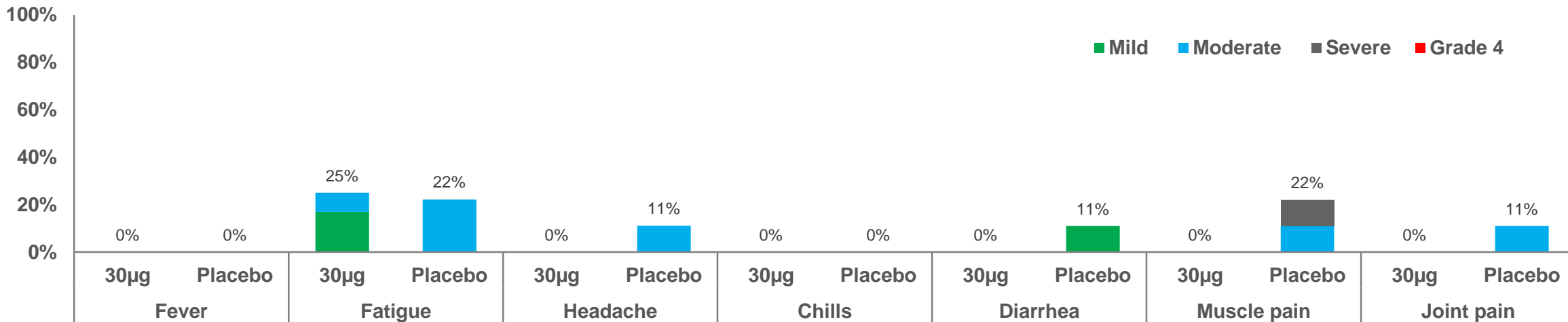


After Dose 1 of 30µg BNT162b2, a Mostly Mild to Moderate Tolerability Profile is Observed (US Phase 1 Data)

18-55 year olds
N= 12 for 30µg; N=9 for Placebo

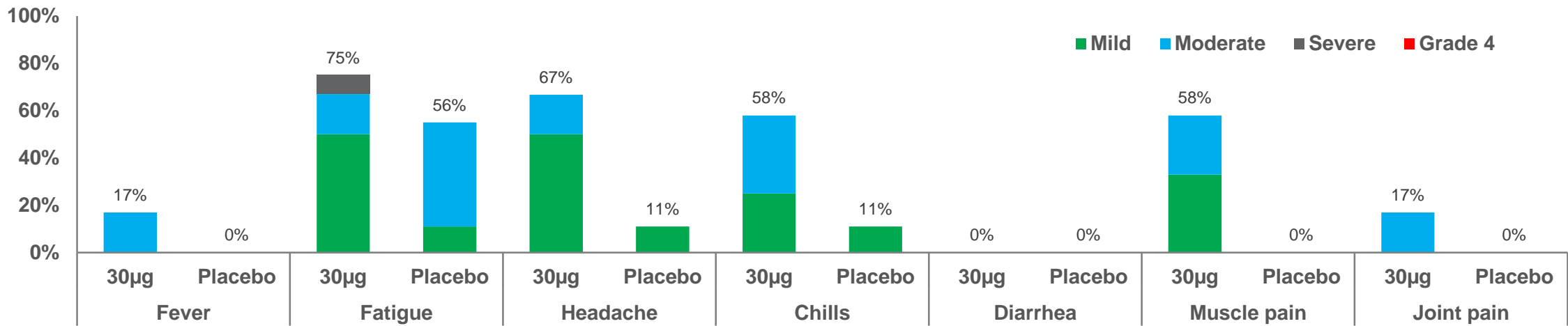


65-85 year olds
N= 12 for 30µg; N=9 for Placebo

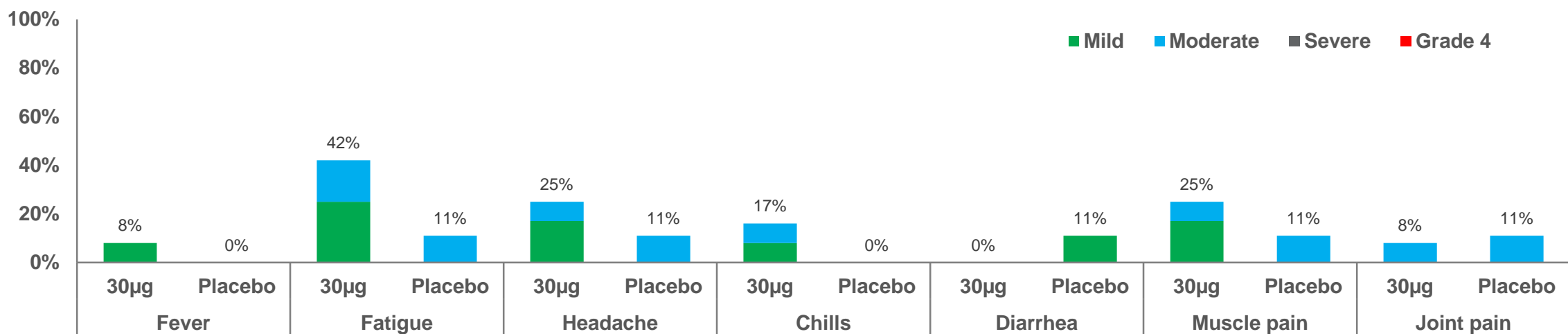


After Dose 2 of 30µg BNT162b2, a Mostly Mild to Moderate Tolerability Profile is Observed (US Phase 1 Data)

18-55 year olds
N= 12 for 30µg; N=9 for Placebo

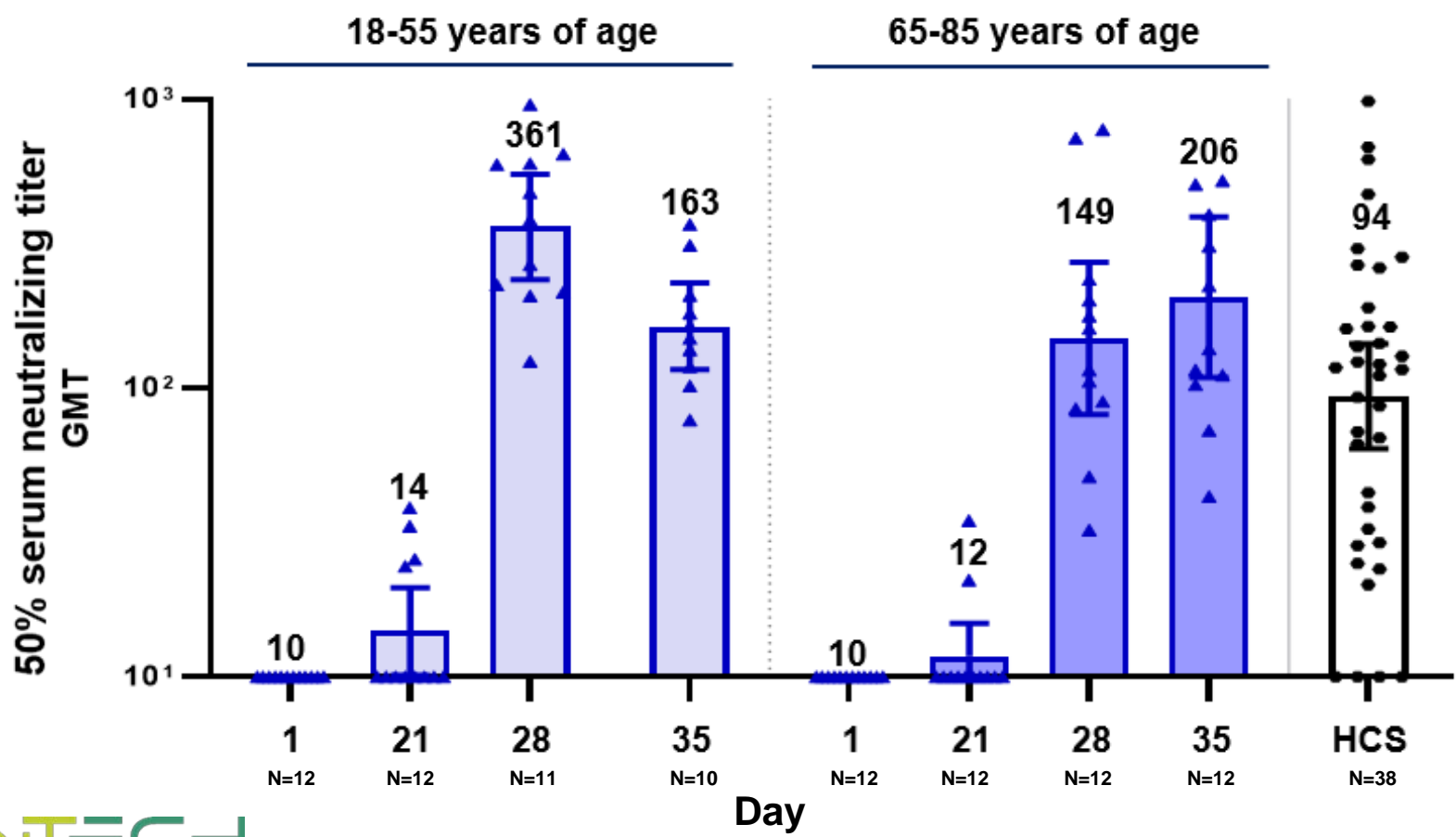


65-85 year olds
N= 12 for 30µg; N=9 for Placebo

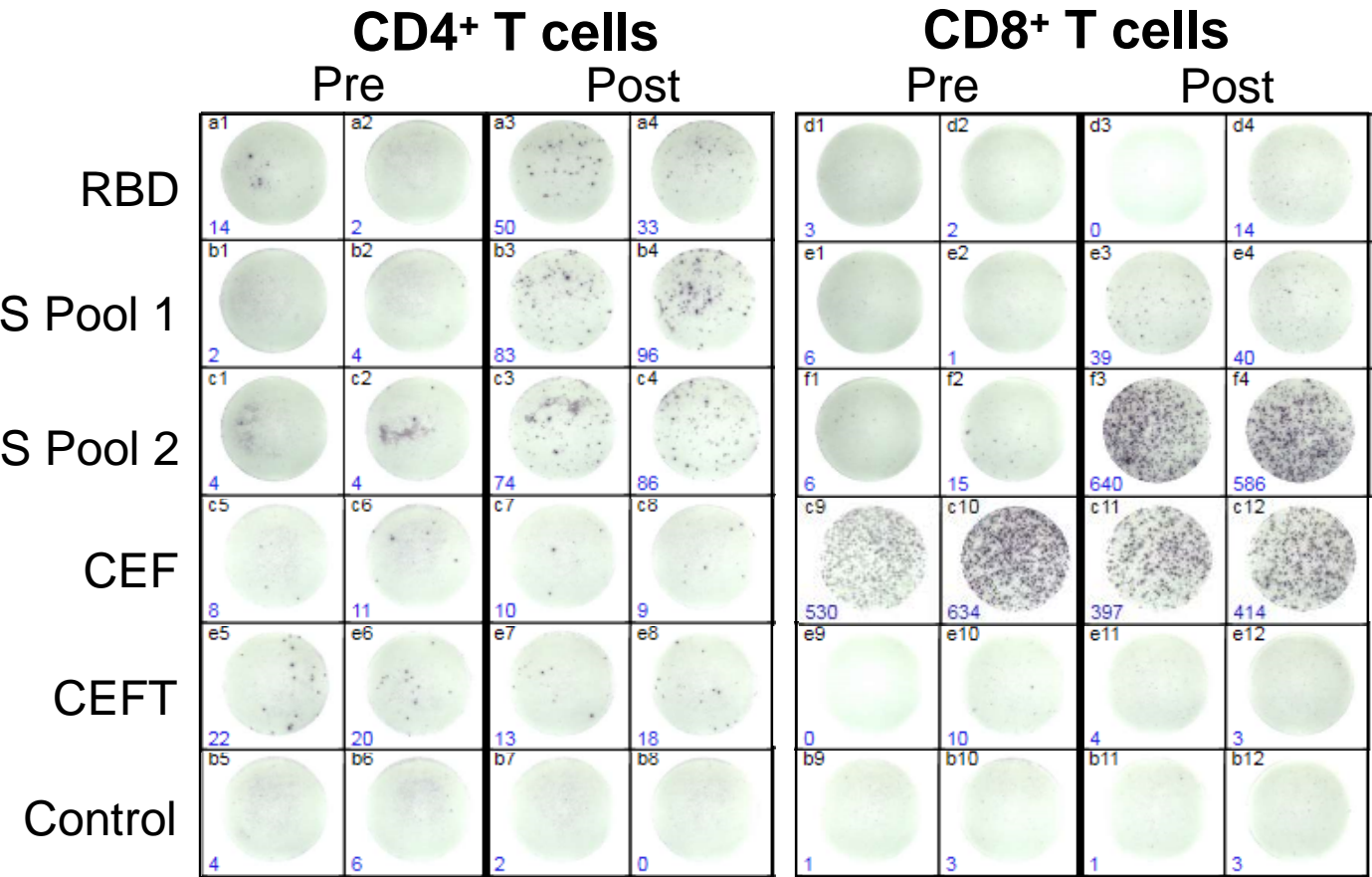


BNT162b2 30µg Vaccine Candidate Demonstrated Strong SARS-CoV-2 Neutralizing Antibody Responses in Younger and Older Adults (US Phase 1 data)

At Day 35, 30µg BNT162b2 elicited SARS-CoV-2 neutralizing GMTs in 18-55 and 65-85 year olds well above the GMT of a HCS panel



BNT162b2 Elicits Strong CD4+ and CD8+ T Cell Responses in Phase 1/2 German Trial



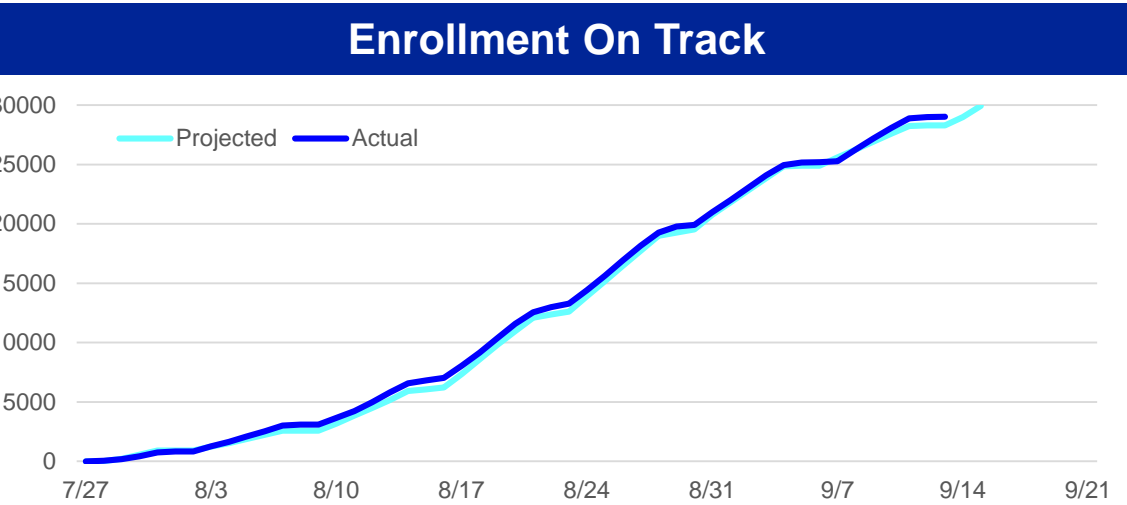
10 µg BNT162b2

Receptor binding domain (RBD)
N-terminal portion of the spike protein (S Pool 1)
C-terminal domain of the spike protein (S Pool 2)
CMV, EBV, influenza virus; HLA class I epitope peptide pool (CEF)
CMV, EBV, influenza virus, tetanus toxoid; HLA class II epitope peptide pool (CEFT)

From BNT162-01 clinical trial in Germany - not published.







Phase 3 Efficacy Trial: 29,012 Participants are Currently Enrolled Across 129 Sites in 3 Countries

Primary Efficacy Objectives	Endpoints
Efficacy against confirmed COVID-19 in participants without evidence of infection before vaccination	COVID-19 incidence based on confirmed NAAT in participants with no serological or virological evidence of past SARS-CoV-2 infection
Efficacy against confirmed COVID-19 in participants with and without evidence of infection before vaccination	COVID-19 incidence based on confirmed NAAT



Clinical Sites Across The Globe

Planned



US Brazil Argentina Germany Turkey South Africa

Diverse Study Population

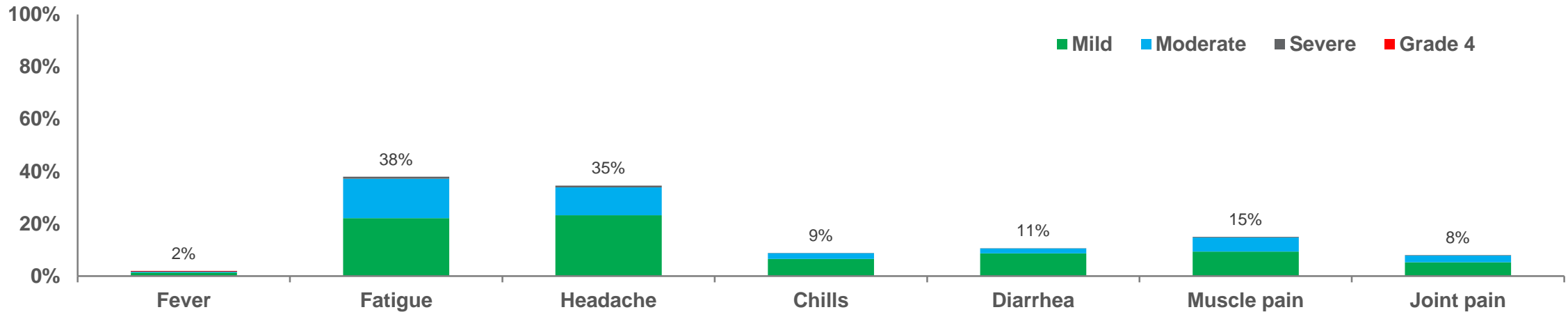
	%US	%Global
Black or African American	8%	7%
Hispanic	11%	27%
Native American/Alaska Native	0.6%	0.5%
Asian	5%	4%
Older cohort	48%	44%

Rigorous Safety Monitoring Through All Phases of the Study

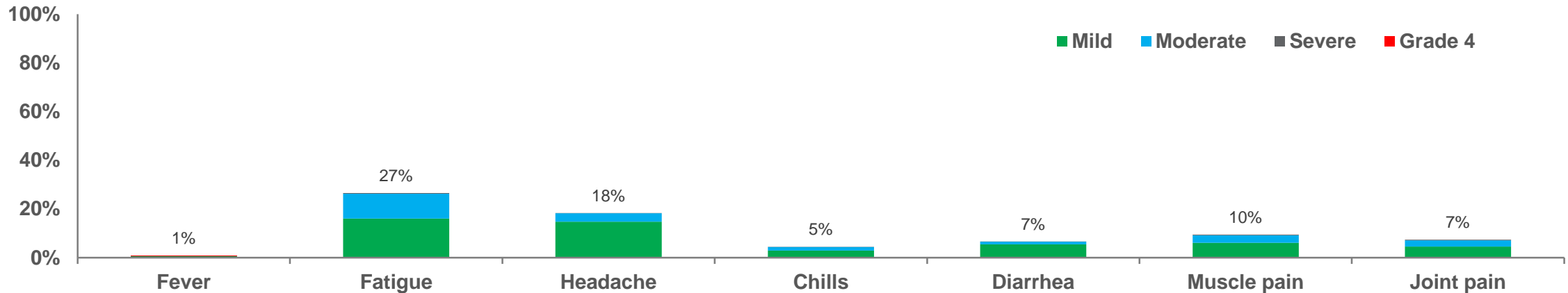
- Safety and tolerability are being continuously scrutinized throughout the course of our study
- Continuous monitoring is performed by Pfizer's qualified personnel by reviewing individual and aggregate data on a blinded basis
- Weekly review of unblinded data (i.e. with knowledge of vaccine or placebo) is performed by an external, independent Data Monitoring Committee (DMC) composed of adult and pediatric vaccine safety experts
- DMC may recommend pausing or discontinuing study at any time and has not done so to date
- We continue to recruit and enroll patients as planned
- To date, blinded tolerability data in Phase 2/3 show a “mostly mild to moderate” tolerability profile as was observed in Phase 1

Blinded US Phase 3 Data Through August 27th: After Dose 1 of 30µg BNT162b2 or Placebo, a Mostly Mild to Moderate Tolerability Profile is Observed

18-64 year olds
N= 5,664

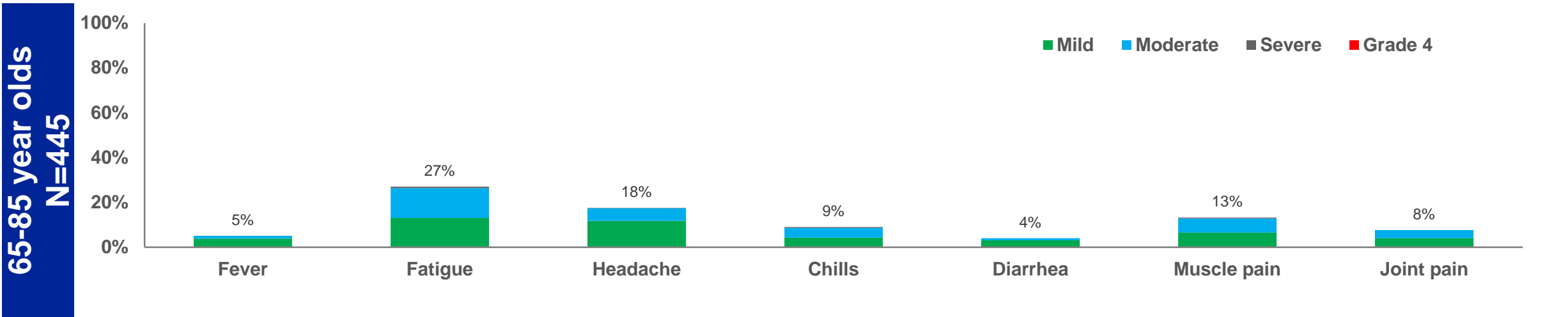
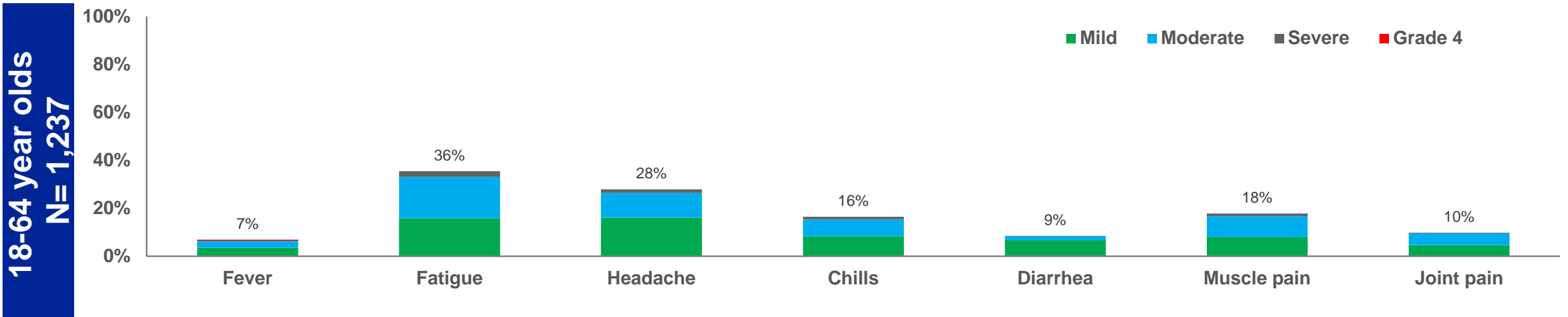


65-85 year olds
N= 1,816



Note: Since these are pooled blinded data, ~50% of subjects have received BNT162b2 and ~50% of subjects have received placebo

Blinded US Phase 3 Data Through August 27th: After Dose 2 of 30µg BNT162b2 or Placebo, a Mostly Mild to Moderate Tolerability Profile is Observed



Note: Since these are pooled blinded data, ~50% of subjects have received BNT162b2 and ~50% of subjects have received placebo



Angela Hwang

Group President, Pfizer Biopharmaceuticals



The Pfizer-BioNTech Collaboration Has Created a Strong and Uniquely Positioned Development Program

130+ years of Development and Commercialization

All In House End-to-End Vaccine Capabilities

Among Vaccines suppliers with targeted launch in 2020, Pfizer-BioNTech is the **ONLY** collaboration that uniquely offers critical in-house capabilities:



Vaccine R+D



Vaccine
Clinical Development



Supply +
Manufacturing



Global Vaccines
Distribution

Sources:

<https://investors.modernatx.com/news-releases/news-release-details/moderna-and-lonza-announce-worldwide-strategic-collaboration>

www.astrazeneca.com/content/astraz/media-centre/press-releases/2020/astrazeneca-takes-next-steps-towards-broad-and-equitable-access-to-oxford-universitys-covid-19-vaccine.html

www.biospace.com/article/releases/johnson-and-johnson-announces-a-lead-vaccine-candidate-for-covid-19-landmark-new-partnership-with-u-s-department-of-health-and-human-services-and-commitment-to-supply-one-billion-vaccines-worldwide-for-emergency-pandemic-use/

www.jnj.com/johnson-johnson-announces-acceleration-of-its-covid-19-vaccine-candidate-phase-1-2a-clinical-trial-to-begin-in-second-half-of-july

Pandemic Phase Expected to Deliver Up To 100 Million Doses in 2020 and Approximately 1.3 Billion Doses in 2021 of Our Potential COVID-19 Vaccine

Subject to regulatory approval

>450M Doses Committed to Date for 2020-2021
Options for Up To 600M Additional Doses



200M

EU: Delivery 2020-2021
Option for 100M more doses*



120M

Japan: Delivery 1H2021



100M

US: Delivery 2020-2021
Option for 500M more doses**



30M

UK: Delivery 2020-2021



Canada

Canada: Delivery 2021

**22 term sheets
submitted and under
negotiation**

+

**30 countries and
supranational
organizations (inc.
COVAX) in discussion**

Increasing Vaccine Confidence



Pfizer is dedicated to increasing vaccine confidence through improving patient understanding

stronger.

Source: Psyma Netquest, COVID-19 Impact Report June 1-5, 2020



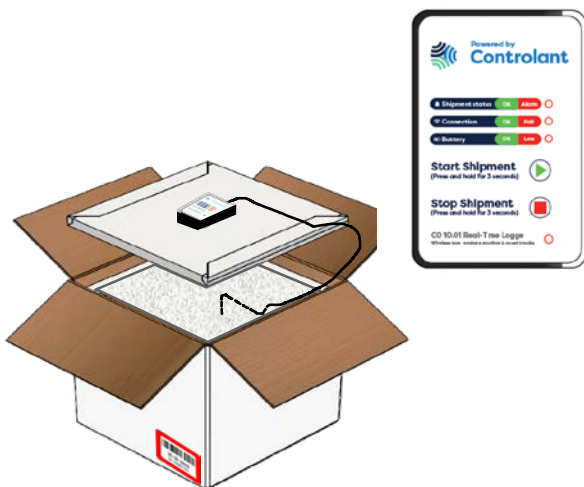
BIONTECH

*Subject to Contract Negotiations
**Following FDA authorization

Distribution Plan Includes Options for Points of Use (POUs) to Store COVID Vaccine Up To 6 Months

Direct Shipment to Point of Vaccination

Each thermal shipper arrives with a reusable GPS temperature monitoring device



Vaccine Storage

Ultra-Low Temperature Freezer (6 Months)

Commercially available for POUs from suppliers



Dry Ice Thermal Shippers (15 Days*)

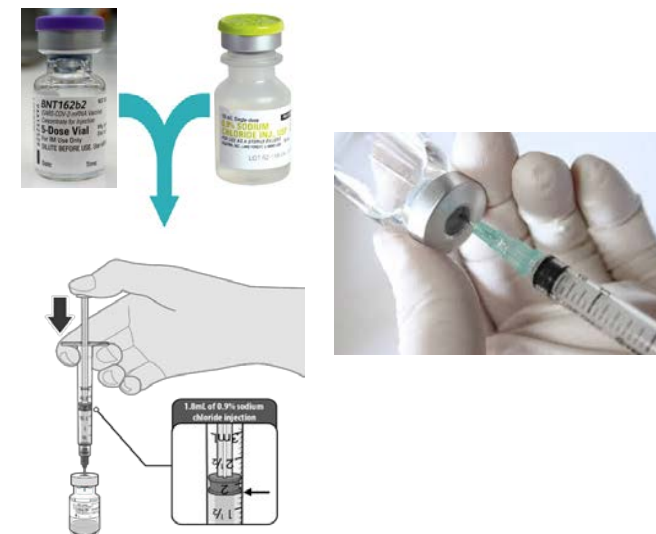


2-8°C Refrigerator Storage (5 Days)



Vaccine Preparation

From storage 1 vial used for every 5 patients

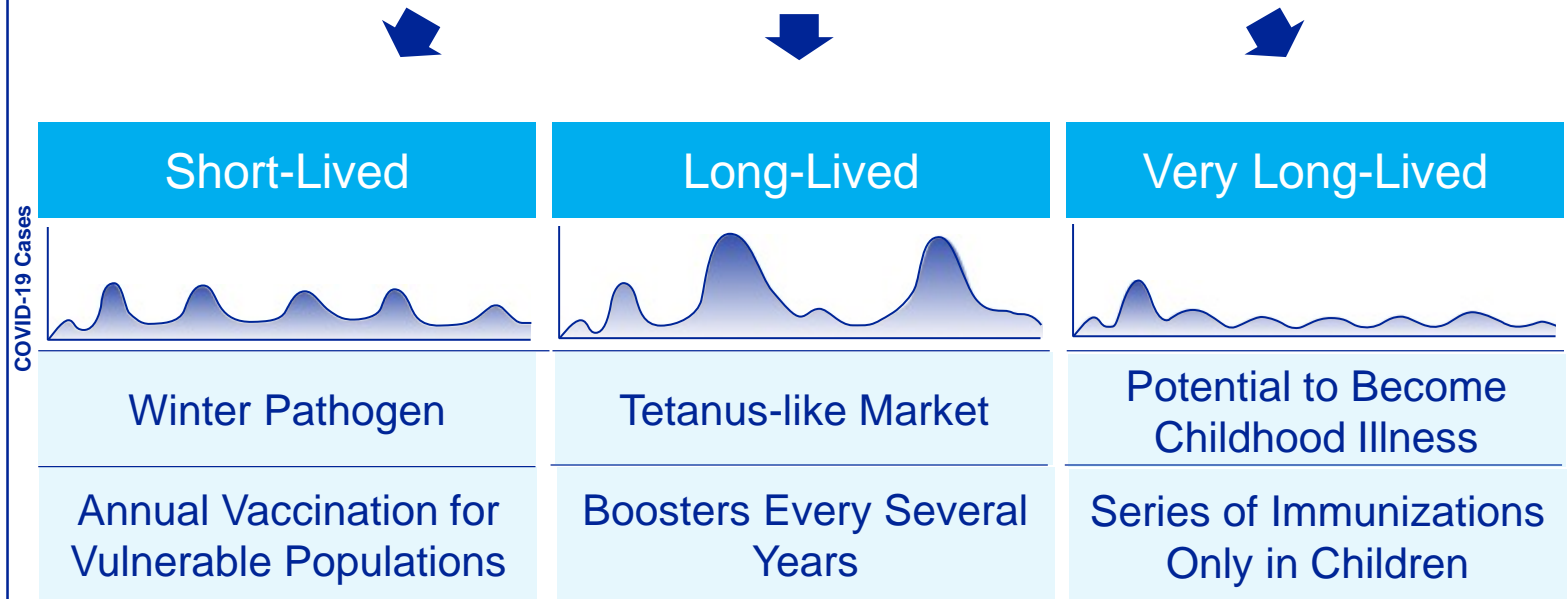


mRNA Technology is Well-Positioned to Cover a Range of Potential COVID-19 Vaccination Scenarios*

*Subject to regulatory approval

Vaccine Durability Will Inform Vaccination Frequency

Immunity Scenarios



mRNA Technology Has Potential for Benefits in Any Vaccination Scenario

mRNA Technology May Allow Fast Response



Ability to quickly modify vaccine to address virus mutations

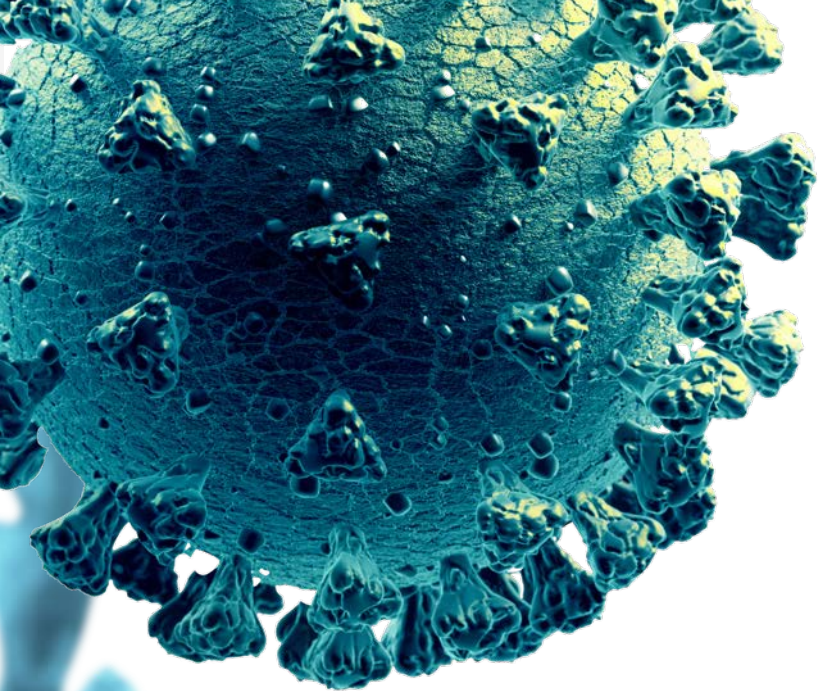


Boosting Doses, if needed



Elicitation of both antibody-based and T cell immunity, based on Ph 1/2 data

Potential for Good Breadth of Immunity and Priming



Q&A

