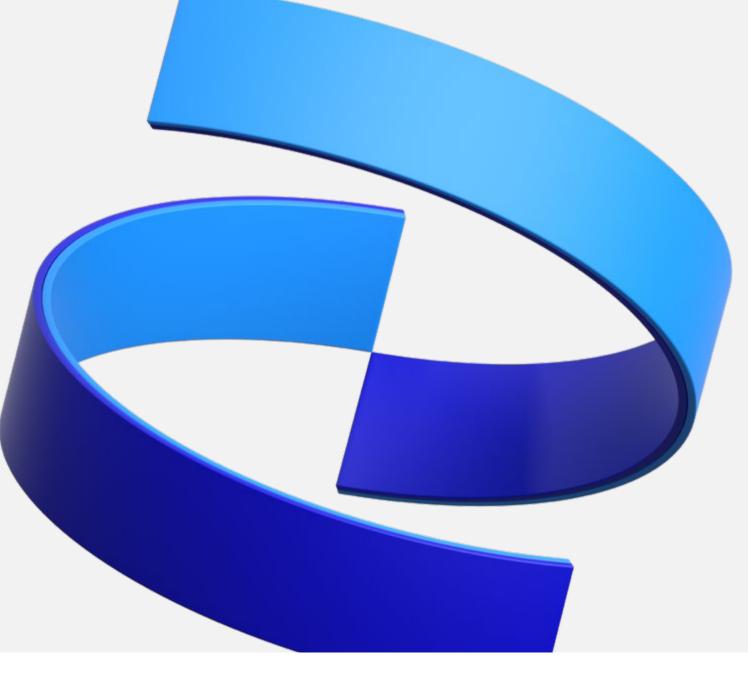
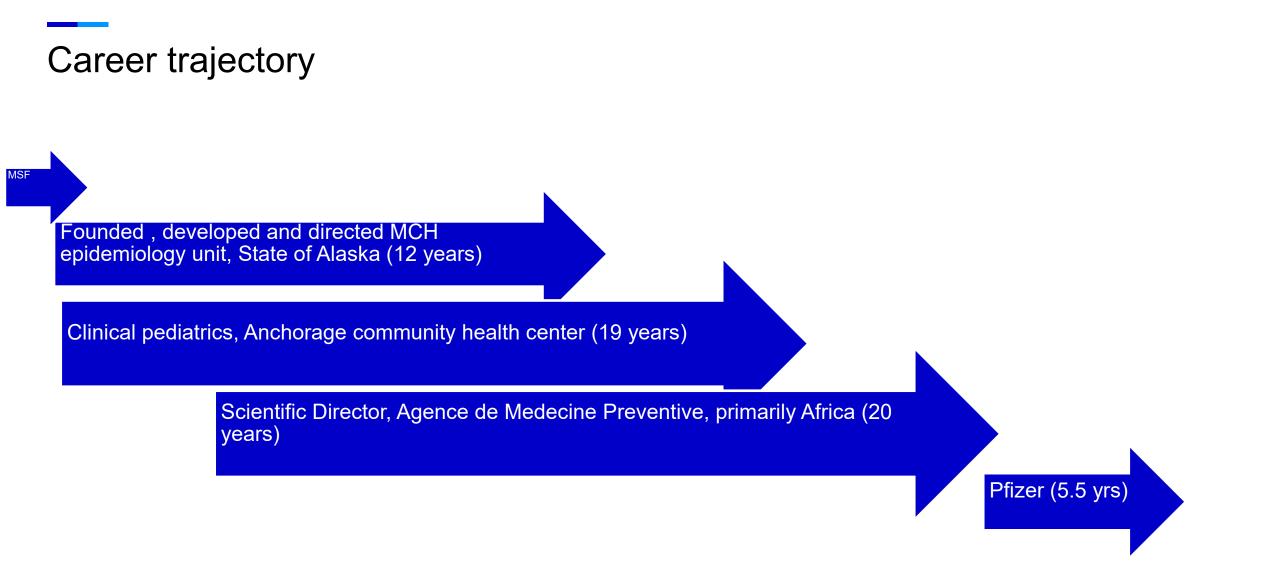
Science and Public Health in the Pharma World

Brad Gessner Global Medical Lead, Respiratory Vaccines Pfizer, Inc. October 2022



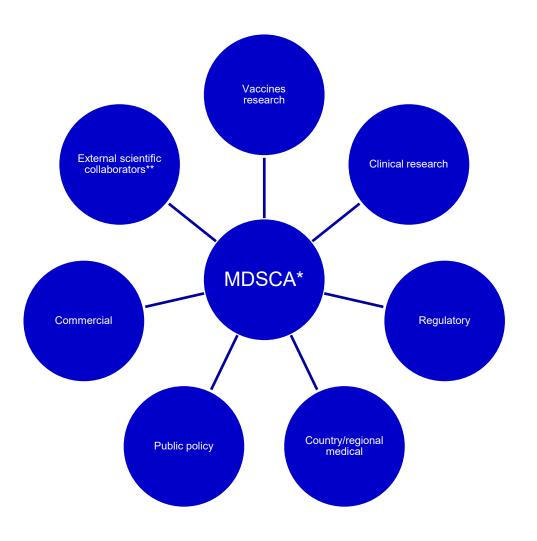




Gavi Board of Directors, WHO IVIR-AC and IPAC committees, SAGE working groups



Pfizer Vaccines Organizational Structure



*MDSCA = Medical and Scientific Affairs

- Scientific affairs: evidence generation
- Medical affairs: evidence dissemination

Communication is bidirectional except commercial, which does not inform medical decisions

**Three common contractual structures for research with external groups

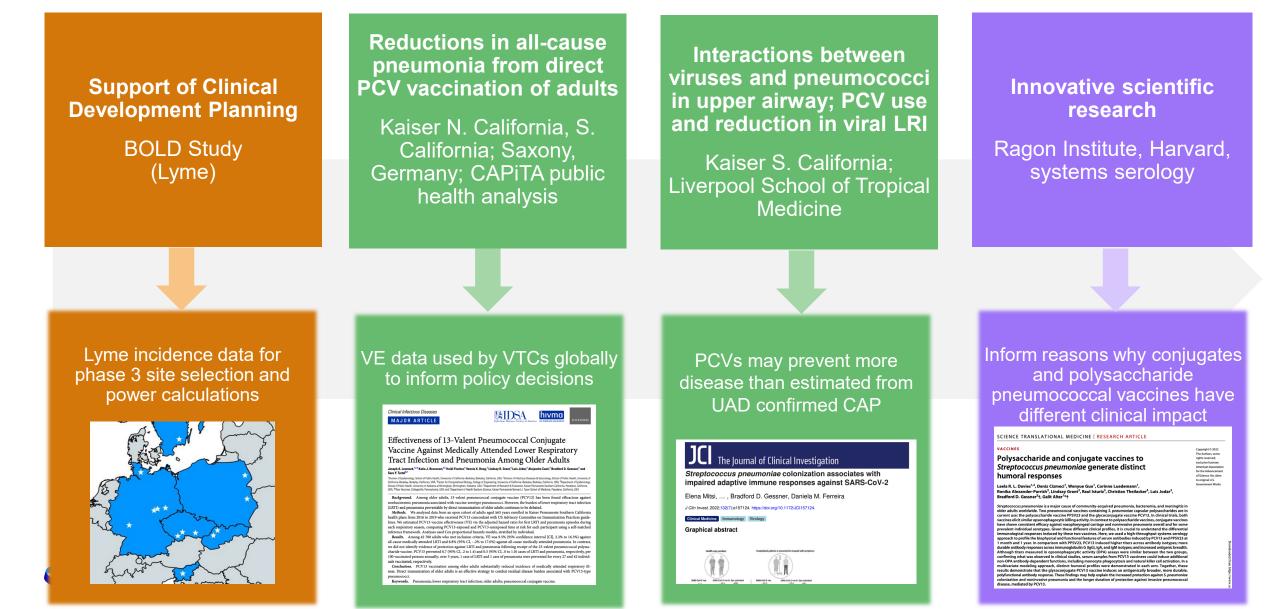
- Investigator sponsored research (ISR)
- Investigator sponsored collaborative research
- Pfizer sponsored research



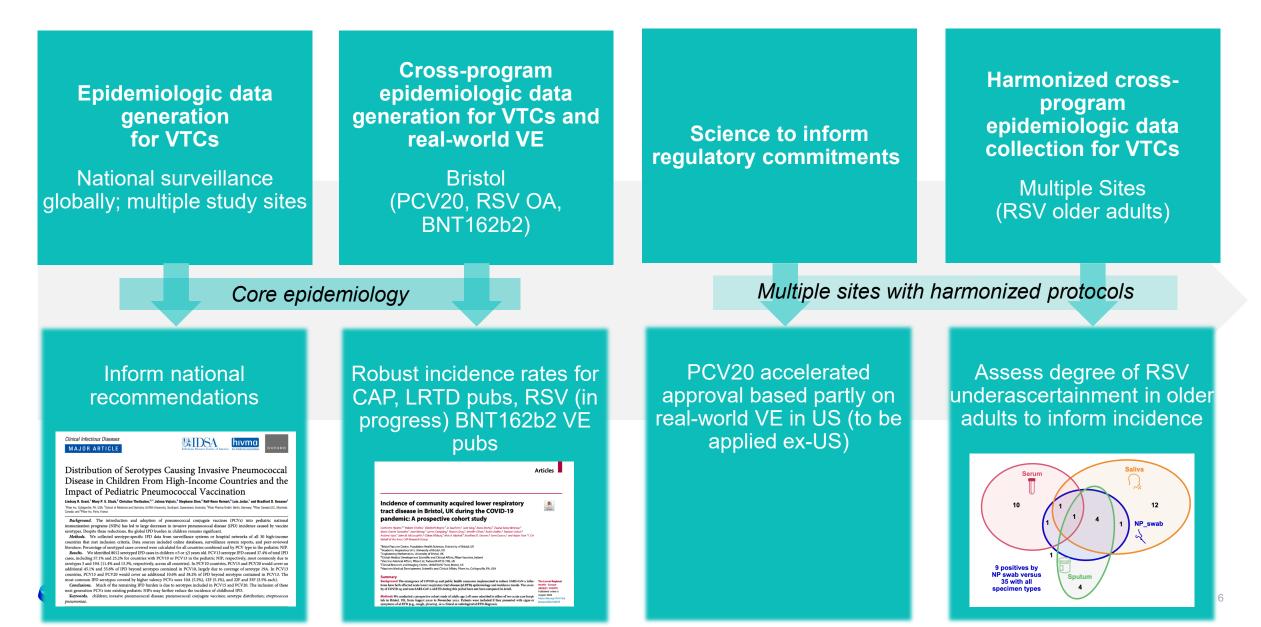
Why is Real-World, End-to-End Evidence Generation Important?

| Objectives | Outcomes / Impacts |
|--|---|
| Clinical Development Planning | High quality disease incidence inputs for clinical trial sample size estimates Feasibility for clinical trial operational success Case detection to inform clinical trial design decisions |
| Estimations of Public Health Value Based on Burden of Disease (BOD) and Cost Effectiveness (CE) Models | Demonstrate the value of our vaccines by evaluating clinical characteristics of disease, transmission dynamics, risk group populations, etc. Inform Vaccine Technical Committee (VTC) recommendations for use and pricing |
| Demonstrating Vaccine Effectiveness (VE) in Real-world Settings Post-approval | Fulfill regulatory commitments Accelerated approval of indications and label enhancement Ongoing monitoring of real-world vaccine use to confirm & re-evaluate public health impact Inform adaptation of vaccine formulations, evaluate duration of protection / boosting |
| Translating Innovative Scientific Research into Public Health Interventions | Discovery of biomarkers to customize vaccination strategies Discovery of immune mechanisms of protection, helping to establish new correlates of protection for simplified licensure pathways Generate evidence to differentiate Pfizer vaccines from competitors and estimate public health value |
| Strengthening Pfizer's Credibility as a Scientific Leader and Public Health Partner | Approximately 150 high-quality publications in <24 months from MDSCA evidence generation activities allow Pfizer to lead the conversation and advance our vaccine science Collaborative partnerships with institutions, public health authorities and experts Aligns with Pfizer Vaccines '3P' strategy: <u>P</u>revention, <u>P</u>eople, <u>P</u>artnerships |

MDSCA Evidence Generation – Case Study Overview (1 of 2)



MDSCA Evidence Generation – Case Study Overview (2 of 2)



Additional MDSCA activities

- Contribute medical input to regulatory filings and strategies
- Contribute to vaccine designs
- Contribute to registrational trial designs
- Promote public health
 - Public health outcomes in clinical trials
 - Full preventable burden of disease
- Promote global equity
 - MDV PCV20



In Summary...

MDSCA Activities



- Encompass a wide range of research methodologies including retrospective 'big data', real-world data, prospective epidemiologic studies, and molecular / translational research
- Generate data to inform internal decisions from early clinical trial development to post-licensure
- Generate data to inform national policy recommendations, including providing accurate inputs for cost effectiveness modelling
- Fulfill post-approval commitment requirements that have supported accelerated vaccine approval
- Rely on MDSCA group's epidemiologic, clinical, statistical, data analytics, and research operations expertise
- Rely on strong, long-term partnerships with external collaborators and sites globally that are fit-forpurpose both efficiently and effectively
- Main products are high-quality publications, scientific congress abstracts, regulatory filings, internal evidence dissemination/communication

