

COVID-19 Report

Zainab Abdurrahman

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Executive Summary

The **Ontario COVID-19 Science Advisory Table** is self-described as “a group of scientific experts and health system leaders who evaluate and report on emerging evidence relevant to the COVID-19 pandemic, to inform Ontario’s response.” They claim to integrate information from “existing scientific tables, Ontario’s universities and agencies, and the best global evidence.”¹

Canadian news outlets and Ontario provincial, regional and municipal governments defer almost exclusively to the instructions and statements provided by the various working groups of the Table.² The group is largely responsible for draconian and dangerous measures such as lockdowns, forced school and business closures, social distancing, mandatory mask-wearing, mass testing of the healthy, suppression of safe and effective medicines and healthy activities, and reckless mass-vaccination of adults and children.^{3,4}

One member is Dr. **Zainab Abdurrahman**, who sits on the **Drugs & Biologics Clinical Practice Guidelines** Working Group. Despite claims of independence, Abdurrahman holds simultaneous positions across private practice locations, academic employment, government advisory boards, vaccine task forces, non-profit organizations, medical associations, and emergency care facilities, creating a tangled web of **Conflicts of Interest (COIs)**. Startlingly, she also has strong ties to the pharmaceutical industry that *are not fully disclosed*.

This means that Abdurrahman can not contribute to an independent discussion on public health policy without risk of influence from her conflicting interests, which are primarily relationships with pharmaceutical companies.⁵

1. Abdurrahman has received money directly from **ALK, Bausch Health, Medexus Pharmaceuticals, Merck, Pfizer, Miravo Healthcare, Novartis, Sanofi**, and **Stallergenes-Greer** - pharmaceutical companies actively promoting COVID-19 vaccine and therapeutic products;
2. She has received money for speaking engagements from non-governmental agencies that are funded by **ALK, Amgen, AstraZeneca, Bayer, CSL Behring, GlaxoSmithKline, Mead Johnson Nutrition, Medexus Pharmaceuticals, Merck, Miravo Healthcare, Novartis, Pfizer, Stallergenes Greer, Takeda, Teva, Valeo Pharma**;


¹ *About Us*. Ontario COVID-19 Science Advisory Table. Retrieved December 13, 2021, from <https://covid19-sciencetable.ca/about/>

² *Ontario COVID-19 Science Advisory Table | News, Videos & Articles*. Global News; Corus Entertainment Inc. Retrieved January 6, 2022, from <https://archive.ph/gzMXp>

³ Crawley, M. (2022, January 6). *As Omicron sweeps across Ontario, Doug Ford's government braces for impact*. CBC News; CBC/Radio-Canada. <https://archive.ph/i7cYn>

⁴ Behavioural Science Working Group. (2021, December 23). *Ask Ontario's Science Table: Omicron Edition*. Ontario COVID-19 Science Advisory Table. https://covid19-sciencetable.ca/wp-content/uploads/2021/12/Slide-Deck_Ask-the-SAT_20211223-3.pdf

⁵ See Appendix A for background information surrounding these companies and COVID-19

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3. She practices medicine at multiple clinics that profit off of her patients taking a COVID-19 vaccine product;
 4. She is employed at both **McMaster University** and **University of Toronto**, who have received millions of dollars in COVID-19, public health and vaccine-related funding from the **Bill & Melinda Gates Foundation**, **Chan Zuckerberg Biohub** and **Chan Zuckerberg Initiative** - groups with financial stake in the COVID-19 response and products;
 5. She works for multiple organizations that received federal funding to develop propaganda to “increase vaccine confidence”;
 6. She is otherwise associated with several other organizations that are partnered with or are funded by the **Fresenius Kabi**, **National Resilience Inc.**, **Sanofi**, **Teva Pharmaceuticals**, **Patheon**, **Ceva**, **Labstat**, **Medicago**, **SiO2 Materials Science**, **Therapure BioPharma Inc.**, **Biovectra**, **Apotex**, **EmpowerPharm**, **Alphora**, **Kisoji Biotechnology**, **JayChem**, **OctaPharma**, **NucroTechnics**, **NoNO Inc.**, **Chemtura**, **AIMCo**, **Grantek**, **Purolator**, **Health Canada**, and **Ontario Genomics**;
 7. Abdurrahman is financially associated directly or indirectly in a manner relevant to COVID-19 with the **World Economic Forum**, **BlackRock** and **Berkshire Hathaway**.⁶ This connection is deeply troubling as the stated values, goals and associations of these supra-national organizations do not necessarily align with those of the voting Canadian population.

Dr. Zainab Abdurrahman must immediately resign from her role on the Ontario COVID-19 Science Advisory Table due to her significant conflicts of interest that preferentially promote a limited set of pharmaceutical products, specifically vaccines. Based on the demonstrably false and otherwise misleading guidance provided by Dr. Abdurrahman and her affiliates, a full independent review must take place to investigate whether she or her institutions are and have been properly engaged in the process of informed consent with her patients.

⁶ See Appendix B for citations regarding the World Economic Forum

Zainab Abdurrahman

Abdurrahman provided identical disclosure forms to the OST on February 8, May 14, and August 30, 2021.

1. Albany Medical Clinic

Abdurrahman practices medicine at Albany Medical Clinic, which on December 19, 2021 instructed patients to “get boosted” with an additional COVID-19 shot when eligible due to the Omicron variant.⁷ Albany Medical Clinic advocates on behalf of COVID-19 vaccine policies and products, offering the **Pfizer-BioNTech** and **Moderna** products to their patients.⁸

2. Black Physicians Association of Ontario

Abdurrahman is a member of the **Black Health & Vaccine Initiative** in association with BPAO (Black Physicians of Ontario).⁹ She was a collaborator with BPAO in drafting the position statement on Black Health & the COVID 19 vaccines.¹⁰ The BPAO received a \$1,000,000.00 donation from **Scotiabank**, **MD Financial Management** and the **Canadian Medical Association** in February 2021.¹¹

3. Black Scientists’ Task Force on Vaccine Equity

Abdurrahman is a member of the Black Scientists’ Task Force on Vaccine Equity, which was created in December 2020 “to share information about COVID-19 to the Black Canadian community and address their concerns about COVID-19 related issues.”^{12, 13} Created by the **City of Toronto** in partnership with the **TAIBU Community Health Centre** to increase vaccine uptake/combat “vaccine hesitancy” among black people of African and Caribbean origins. Its membership includes mostly staff of the **University of Toronto** and its affiliated hospitals,

⁷ *Specialists*. Albany Medical Clinic. Retrieved December 19, 2021, from <https://www.albanyclinic.ca/medical-staff/specialists/>

⁸ *COVID-19 Key Resources*. (2021). Albany Medical Clinic. <https://www.albanyclinic.ca/covid-19/>

⁹ *Understanding COVID-19 Vaccine: Making Evidence-Based Choices for Black Children and Youth*. (2021, November 9). Toronto District School Board. <https://archive.ph/qLi5C>

¹⁰ Black Health Alliance, Black Physicians’ Association of Ontario, Black Opportunity Fund, & BlackNorth Initiative. (2021). *POSITION STATEMENT BLACK HEALTH AND THE COVID-19 VACCINES*. In Black Physicians Association of Ontario. https://bpao.org/wp-content/uploads/2021/03/FINAL_BHA-BPAO-BNI-BOF-Black-Health-COVID-19-Vaccines-Position-Statement-March-12-2021_For-Release.pdf

¹¹ Scotiabank. (2021, February 25). *Scotiabank, MD Financial Management and the Canadian Medical Association announce \$1 million to support the Black Physicians’ Association of Ontario*. Cision Newswire. <https://www.newswire.ca/news-releases/scotiabank-md-financial-management-and-the-canadian-medical-association-announce-1-million-to-support-the-black-physicians-association-of-ontario>

¹² *Black Scientists’ Task Force on Vaccine Equity*. <https://www.torontoblackcovid.com/>

¹³ Anielska, M. (2021, February 15). *U of T professor chairs Black Scientists’ Task Force striving for equitable vaccine rollout for Black community*. The Varsity. <https://thevarsity.ca/2021/02/14/u-of-t-professor-chairs-black-scientists-task-force-striving-for-equitable-vaccine-rollout-for-black-community/>

professional lobbyists, and experienced developers of pharmaceutical products and vaccines. They also have connections to the **Centre for Addiction and Mental Health (CAMH), McMaster University and Children’s Hospital, Sanofi, Fresenius Kabi, Teva Pharmaceuticals, National Resilience Inc., Patheon, Ceva, Labstat, Medicago, SiO2 Materials Science, Therapure BioPharma Inc., Biovectra, Apotex, EmpowerPharm, Alphora, Kisoji Biotechnology, JayChem, OctaPharma, NucroTechnics, NoNO Inc., Chemtura, AIMCo, Grantek, Purolator, Health Canada, Ontario Genomics, and the Ontario Ministry of Transportation, among others.**^{14, 15}

4. Canadian Society of Allergy and Clinical Immunology

Abdurrahman is Fellows in Training co-Supervisor for the Canadian Society of Allergy and Clinical Immunology (CSACI), from whom she receives funding for speakers bureau/honoraria and/or work on advisory boards.^{16, 17} The CSACI receives funding from **AstraZeneca, Miravo Healthcare, GlaxoSmithKline, McMaster University Faculty of Health Sciences, Pfizer, Takeda, ALK, CSL Behring, Medexus Pharmaceuticals Inc., Novartis, Stallergenes Greer, Valeo Pharma, Teva, and Mead Johnson Nutrition.**^{18, 19}

5. CBC News

Abdurrahman has appeared in many news segments on CBC News discussing COVID-19 or related pharmaceutical companies:

- In a November 2019 segment, she advocated for Benadryl (a **Johnson & Johnson** product).²⁰
- In December 2020, she downplayed concerns about allergic reactions to ingredients in the vaccine products including polyethylene glycol (PEG).²¹
- Also in December 2020, she reiterated that severe adverse reactions such as anaphylaxis are not common and that the focus should be on the “thousands who are being inoculated and tolerating it well.”²²

¹⁴ *Our Clients*. Brevitas. Retrieved December 28, 2021, from <https://www.brevitas.us/our-clients/>

¹⁵ *Meet Our Team*. Brevitas. Retrieved December 28, 2021, from <https://www.brevitas.us/meet-our-team/#>

¹⁶ *Zainab Abdurrahman*. CSACI. Retrieved January 2, 2022, from <https://archive.ph/GnOkM>

¹⁷ Abdurrahman, Z. (2021, August 30). *Declaration of Interest*. Ontario COVID-19 Science Advisory Table.

https://covid19-sciencetable.ca/wp-content/uploads/2021/02/Declaration-of-Interest_Drugs-and-Biologics-Clinical-Practice-Guidelines-Working-Group_Zainab-Abdurrahman_20210830.pdf

¹⁸ *CAAIF 6th Annual Auction*. 32auctions. Retrieved January 2, 2022, from <https://archive.ph/CMmIE>

¹⁹ CAAIF. (2021, October 21). *CAAIF Gala & Awards Presentation*. YouTube. <https://archive.ph/dMfU6>

²⁰ *On CBC News November 2019*. (2019, November). LinkedIn.

[https://www.linkedin.com/in/z-abdurrahman-draforallergy/detail/overlay-view/urn:li:fsd_profileTreasuryMedia:\(ACoAACBs6mkBViF9zPaqONeFUz1yW8SWu9Oh-Dg.1574308226409\)](https://www.linkedin.com/in/z-abdurrahman-draforallergy/detail/overlay-view/urn:li:fsd_profileTreasuryMedia:(ACoAACBs6mkBViF9zPaqONeFUz1yW8SWu9Oh-Dg.1574308226409))

²¹ *Clinical allergist answers key questions about vaccine*. (2020, December 15). CBC News.

<https://www.cbc.ca/player/play/1831981635920>

²² *Severe COVID-19 vaccine reactions like anaphylaxis not common, says specialist*. (2020, December). CBC News.

<https://www.cbc.ca/player/play/1833481795921>

- In January 2021, she commented “insect venom that could trigger a reaction in people in this situation is not a component in the vaccine profiles” in response to a situation where a woman didn’t want to take the COVID-19 shot because she had previously suffered an allergic reaction to the flu shot and had a honey bee allergy.²³
- In November 2021, she appeared alongside **Supriya Sharma**, Health Canada's chief medical adviser, to discuss COVID-19 injections for children.^{24, 25}

CBC/Radio-Canada has received substantial financial assistance from the **Government of Canada** under Prime Minister **Justin Trudeau**.²⁶ In May 2019, Trudeau joked that the reason the media let him and his party off easy is “because we paid them \$600,000,000.00,” which he indeed did pay.^{27, 28}

6. Food Allergy Canada

Zainab has contributed to articles published by Food Allergy Canada.^{29, 30, 31}

Food Allergy Canada received \$50,000.00 CAD from the **National Sciences and Engineering Research Council of Canada (NSERCC)** for a Toronto, Ontario-based proposal titled "Encouraging vaccine confidence in Canadians at risk of anaphylaxis".³²

Their corporate partners are **Bausch Health, Kaléo, Nestlé, PepsiCo, Pfizer, Scotiabank, SickKids Foundation, TD Securities**.^{33, 34}

²³ Ghonaim, H. (2021, January 21). *Covid vaccination requirement means lost opportunity for Guelph, Ont., nurse*. CBC News.

<https://www.cbc.ca/news/canada/kitchener-waterloo/guelph-nurse-waterloo-health-covid-mandatory-vaccination-1.5873659>

²⁴ Bresnahan, R. (2021, November 22). *Experts answer your questions about kids and COVID-19 vaccines*. CBC Radio.

<https://www.cbc.ca/player/play/1976583235889>

²⁵ Bresnahan, R., Sharma, S., & Abdurrahman, Z. (2021, November 22). *Monday November 22, 2021 Full Transcript*. CBC Radio.

<https://www.cbc.ca/radio/thecurrent/the-current-for-nov-22-2021-1.6257939/monday-november-22-2021-full-transcript-1.6258680>

²⁶ Ronnie. (2020, November 5). *Media In Canada Obedient To Gov't Covid Narrative Largely Because Of Subsidies*. Canuck Law.

<https://archive.ph/44WNg>

²⁷ Free Your Mind. (2021, September 20). *JUSTIN TRUDEAU BUSTED ON CAMERA ADMITTING OF BUYING OUT CANADIAN NEWS MEDIA WITH TAXPAYERS MONEY*. BitChute; EUMELs Media Library.

<https://archive.ph/8FUaA>

²⁸ Fildebrandt, D. (2020, October 10). *How Trudeau bought the media*. The Western Standard; Wildrose Media Corp.

<https://web.archive.org/web/20201023221550/https://westernstandardonline.com/2020/10/how-trudeau-bought-the-media/>

²⁹ Abdurrahman, Z., & Upton, J. (2018, December 27). *Mythbuster: Someone who has been treated with an epinephrine auto-injector doesn't necessarily need to go to the hospital*. Food Allergy Canada.

<https://foodallergycanada.ca/mythbuster-someone-who-has-been-treated-with-an-epinephrine-auto-injector-doesnt-necessarily-need-to-go-to-the-hospital/>

³⁰ *From the community*. (2016, November 10). Food Allergy Canada. <https://archive.ph/wVYKu>

³¹ *Food Allergy Testing - What's it All About?* (2016, January 3). Food Allergy Canada.

<https://foodallergycanada.ca/food-allergy-testing-whats-it-all-about/>

³² Natural Sciences and Engineering Research Council of Canada. (2021, July 26). *Encouraging vaccine confidence in Canada - Competition Results*. Natural Sciences and Engineering Research Council of Canada (NSERC). Retrieved November 3, 2021, from

https://www.nserc-crsng.gc.ca/NSERC-CRSNG/FundingDecisions-DecisionFinancement/2021/Vaccine_eng.asp#tph

³³ *Who we work with*. Food Allergy Canada. Retrieved January 2, 2022, from

<https://foodallergycanada.ca/our-impact-advocacy-and-services/about-us/who-we-work-with/>

³⁴ *Pivoting with the pandemic*. (2021). Food Allergy Canada.

<https://foodallergycanada.ca/wp-content/uploads/FAC-ImpactReport-2020.pdf>

7. McMaster Children's Hospital

Abdurrahman is employed at McMaster Children's Hospital as the allergy lead in the **Special Immunization Clinic focusing on vaccine allergy**, where she has held clinics.³⁵

The hospital strongly advocates for children to receive COVID-19 injections, with particular emphasis on children with autism and neurodevelopmental disabilities. Their resources include links to pages discussing COVID-19's "real negative effect on children", dismissing natural immunity following infection, describing the shot as "a passport to a healthier life for your child", myocarditis and more.³⁶ It is associated with the Department of Pediatrics at **McMaster University**.³⁷

The hospital receives funding via the **Hamilton Health Sciences Foundation** from corporate partners **Costco Wholesale**, the **Liquor Control Board of Ontario (LCBO)**, **SC Johnson**, **TD Bank Group**, **Sun Life Financial**, **Walmart**, **Microsoft**, **Shoppers Drug Mart**, **Berkshire Hathaway** (via **Duracell** and **Dairy Queen**), **Air Canada Foundation**, and **Marriott International**.^{38, 39, 40, 41} Additional donations have come from **Loblaws**, **Shoppers Drug Mart**, **RBC** (Royal Bank of Canada), and **Scotiabank**.⁴² Board of Directors members include representatives of **BMO Financial Group/BMO Wealth Management**, **TMX Group**, and **National Bank Financial Wealth Management**.

8. McMaster University

Abdurrahman is an Adjunct Assistant Clinical Professor in the Department of Pediatrics at McMaster University, where she completed her Pediatrics training as well as her subspecialty training in Clinical Immunology and Allergy.⁴³ Her academic interests include vaccine allergy, asthma, anaphylaxis, and food allergy, particularly the patient and caregiver experience. She also has a strong interest in medical education and is involved with the training of residents.

³⁵ Flanders, D. (2012, December 5). *Kindercare Pediatrics Welcomes Dr. Zainab Abdurrahman, Pediatric Clinical Immunologist and Allergist*. Kindercare Pediatrics. <https://archive.ph/D0gPY>

³⁶ *COVID-19 vaccines for children and youth*. Hamilton Health Sciences. Retrieved January 6, 2022, from <https://archive.ph/wDsUJ>

³⁷ Mikrogianakis, A. *Department of Pediatrics*. Faculty of Health Sciences; McMaster University. Retrieved January 6, 2022, from <https://archive.ph/xwBue>

³⁸ *Corporate Partners*. Hamilton Health Sciences Foundation. Retrieved January 6, 2022, from <https://archive.ph/KBvsD>

³⁹ *CCHF Partners*. Hamilton Health Sciences Foundation. Retrieved January 6, 2022, from <https://archive.ph/t3o5a>

⁴⁰ Jurus, J., & Veenema, P. F. (2020). *Donor Report 2019*. Hamilton Health Sciences Foundation (p. 26).

https://global-uploads.webflow.com/5ec6d7eacba02558af94ec4c/601031d7154936893499d64d_report-2019-annual-web.pdf

⁴¹ Jurus, J., & Veenema, P. F. (2019). *2018 Donor Report*. Hamilton Health Sciences Foundation (p. 20).

https://global-uploads.webflow.com/5ec6d7eacba02558af94ec4c/5edfd6c4dd2034c75cd88ae9_report-2018-annual-web.pdf

⁴² Thomas, K., & Veenema, P. F. (2021). *Beyond the Frontlines - Donor Report 2020*. Hamilton Health Sciences Foundation (p. 24).

https://global-uploads.webflow.com/5ec6d7eacba02558af94ec4c/6066169662c7251c8d03086b_2021%20Annual%20Report%20web.pdf

⁴³ *Zainab Abdurrahman - McMaster Experts*. McMaster University. Retrieved December 19, 2021, from <https://experts.mcmaster.ca/display/abdurrz>

Her vaccine-related publications include:

- *Vaccine allergy*⁴⁴
 - She reported “receiving personal fees from **Pfizer**, outside the submitted work”. This was **not reported** in her OST disclosures or biography.
- *Experiencing a first food allergic reaction: a survey of parent and caregiver perspectives*⁴⁵
 - Funded by an educational grant from **McMaster University**.

The **Bill & Melinda Gates Foundation** funded McMaster for at least \$21,102,813.00 through several grants relevant to the COVID-19 crisis from 2015-2019:

- \$100,000.00 USD awarded to multiple projects to “fund studies that will facilitate research collaboration among researchers to address major COVID-19 research questions and reduce the harm of the current COVID-19 pandemic, while fostering global, multi-disciplinary collaborations.”⁴⁶ Research areas include:
 - Natural disease history, epidemiology and transmission
 - Vaccines and prophylaxis
 - Infection, prevention and control
 - Therapeutics
 - Clinical management
- \$12,392,744.00 awarded “to identify and address ethical challenges, ethics-related risk, and policy gaps that have the potential to undermine the impact of potential life-saving technologies and interventions in global health and development research” from November 2019 until January 2028.⁴⁷
- \$1,993,992.00 awarded “to find new lead molecules against diseases that disproportionately affect the world's poorest populations” from October 2018 until January 2023.⁴⁸
- \$6,616,077.00 awarded “to identify and address ethical challenges, ethics-related risk, and policy gaps that have the potential to undermine the impact of potential life-saving

⁴⁴ Chu, D. K., & Abdurrahman, Z. (2019). *Vaccine allergy*. Canadian Medical Association Journal, 191(14), E395–E395. <https://doi.org/10.1503/cmaj.190208>

⁴⁵ Abdurrahman, Z. B., Kastner, M., Wurman, C., Harada, L., Bantock, L., Cruickshank, H., & Wasserman, S. (2013). *Experiencing a first food allergic reaction: a survey of parent and caregiver perspectives*. Allergy, Asthma & Clinical Immunology, 9(1). <https://doi.org/10.1186/1710-1492-9-18>

⁴⁶ McMaster University. (2021, January 8). *Bill & Melinda Gates Foundation: Grand Challenges ICODA COVID-19 Data Science*. Research & Innovation. Retrieved December 1, 2021, from <https://research.mcmaster.ca/funding/grand-challenges-icoda-covid-19-data-science-initiative/>

⁴⁷ Bill & Melinda Gates Foundation. (2019, November). *McMaster University*. Retrieved December 1, 2021, from <https://www.gatesfoundation.org/about/committed-grants/2019/11/inv003448>

⁴⁸ Bill & Melinda Gates Foundation. (2018, October). *McMaster University*. Retrieved December 1, 2021, from <https://www.gatesfoundation.org/about/committed-grants/2018/10/opp1192549>

technologies and interventions in global health and development research” from June 2015 until July 2021.⁴⁹

Additional grants from the Gates Foundation are currently being offered to McMaster:

- Up to \$200,000.00 USD to explore using “Metagenomic Next Generation Sequencing to Detect, Identify, and Characterize Pathogens”. The grant period is for up to 24 months and is co-administered with the **Chan Zuckerberg Biohub** and **Chan Zuckerberg Initiative**. The intended result of the funding is to “lead to a network of pathogen detection nodes that could provide increased global transparency into regional pathogen distribution in an accurate and timely manner, and in ultimate support of a global pathogen surveillance network.”⁵⁰
- Up to \$200,000.00 USD to “identify areas for transformational innovation in service of national NTD [neglected tropical disease] programs” in Africa.⁵¹
- Up to \$500,000.00 USD to increase the participation in “Digital Health Services for Pregnant Women to Support Antenatal Risk Stratification in Sub-Saharan Africa”.⁵²
- Up to \$3,000,000.00 USD to build “a stronger malaria mathematical modeling ecosystem in sub-Saharan Africa”.⁵³

The Gates Foundation funded McMaster’s participation in the Together COVID-19 Trial which resulted in a dismissal of Ivermectin and an endorsement of Fluvoxamine.^{54, 55, 56, 57}

⁴⁹ Bill & Melinda Gates Foundation. (2015, June). *McMaster University*. Retrieved December 1, 2021, from <https://www.gatesfoundation.org/about/committed-grants/2015/06/opp1129405>

⁵⁰ McMaster University. (2021, November 19). *Bill and Melinda Gates Foundation: Global Grand Challenges, Metagenomic Next Generation Sequencing to Detect, Identify, and Characterize Pathogens*. Research & Innovation. Retrieved December 1, 2021, from <https://research.mcmaster.ca/funding/bill-and-melinda-gates-foundation-global-grand-challenges-metagenomic-next-generation-sequencing-to-detect-identify-and-characterize-pathogens/>

⁵¹ McMaster University. (2021, November 19). *Bill and Melinda Gates Foundation: Global Grand Challenges, Innovations in Eliminating Neglected Tropical Diseases*. Research & Innovation. Retrieved December 1, 2021, from <https://research.mcmaster.ca/funding/bill-and-melinda-gates-foundation-global-grand-challenges-innovations-in-eliminating-neglected-tropical-diseases/>

⁵² McMaster University. (2021, November 19). *Bill and Melinda Gates Foundation: Global Grand Challenges, Digital Health Services for Pregnant Women to Support Antenatal Risk Stratification in Sub-Saharan Africa*. Research & Innovation. Retrieved December 1, 2021, from <https://research.mcmaster.ca/funding/bill-and-melinda-gates-foundation-global-grand-challenges-digital-health-services-for-pregnant-women-to-support-antenatal-risk-stratification-in-sub-saharan-africa/>

⁵³ McMaster University. (2021, November 19). *Bill and Melinda Gates Foundation: Global Grand Challenges, Building Malaria Modeling Capacity in Sub-Saharan Africa*. Research & Innovation. Retrieved December 1, 2021, from <https://research.mcmaster.ca/funding/bill-and-melinda-gates-foundation-global-grand-challenges-building-malaria-modeling-capacity-in-sub-saharan-africa/>

⁵⁴ Reis, G., & Mills, E. (2021, August 6). *Early Treatment of COVID-19 with Repurposed Therapies: The TOGETHER Adaptive Platform Trial [Slides]*. Duke University; McMaster University; PUC Minas. <https://dricollab.dcri.duke.edu/sites/NIHKR/KR/GR-Slides-08-06-21.pdf>

⁵⁵ August 6, 2021: *Early Treatment of COVID-19 with Repurposed Therapies: The TOGETHER Adaptive Platform Trial* (Edward Mills, PhD, FRCP). (2021, August 11). Rethinking Clinical Trials. <https://archive.ph/x90UQ>

⁵⁶ *New study to test drugs for early COVID-19 infection*. (2021, February 9). Faculty of Health Sciences; McMaster University. <https://archive.ph/4qrXu>

⁵⁷ *New McMaster University Study that concluded that Ivermectin is not effective*. (2021, August 14). Peak Prosperity. <https://archive.ph/TX4ns>

McMaster also received a total of \$123,986.00 CAD in 2020-2021 from the **Hamilton Community Foundation**, with \$10,000 marked for “COVID-19 impact” and \$7265.00 for “health promotion for older Hamiltonians”.⁵⁸

Two awards totalling \$95,500.00 CAD were given to McMaster through “Encouraging vaccine confidence in Canada”, a federal grant program jointly administered by the **Natural Sciences and Engineering Research Council (NSERC)**, the **Social Sciences and Humanities Research Council (SSHRC)**, and the **Canadian Institutes of Health Research (CIHR)**.⁵⁹ The purpose of the grant was to overcome "vaccine hesitancy" caused by "complex factors" such as those "dependent on science literacy levels" or "personal or societal" reasons. The fund was made available to "support organizations with strong track records of science and/or health promotion to deliver evidence-based, vaccine-promoting information to key communities and groups and/or to build capacity in the community to promote confidence in vaccines".⁶⁰ The project applications were titled "Encouraging vaccine confidence among pregnant and breastfeeding Canadians", and "Immune Nations: The Vaccine Project".⁶¹

McMaster claimed to be among the first in the world to isolate the SARS-CoV-2 virus, but was unable to provide evidence of their accomplishment when compelled through a Freedom of Information request (which does not demonstrate the lack of existence of the virus, but may indicate lack of transparency with the public about another aspect of McMaster’s role in the crisis).^{62, 63}

McMaster’s Endowment Fund is managed by **BlackRock**, **Brookfield Asset Management**, and **Morgan Stanley** (among others) as of April 30, 2021.⁶⁴

9. Ontario College of Family Physicians

Abdurrahman receives funding from through fees paid for speakers bureau/honoraria, and/or for work on advisory boards from the Ontario College of Family Physicians (OCFP). One such speaking engagement was “Update on COVID-19 vaccines - Part 2”, the fourteenth

⁵⁸ Hamilton Community Foundation. (2021, October 29). *Pandemic Response Fund Grantees*. Retrieved December 3, 2021, from <https://hamiltoncommunityfoundation.ca/pandemic-response-fund/c19grantees/>

⁵⁹ Natural Sciences and Engineering Research Council of Canada. (2021, July 26). *Encouraging vaccine confidence in Canada - Competition Results*. Natural Sciences and Engineering Research Council of Canada (NSERC). Retrieved November 3, 2021, from https://www.nserc-crsng.gc.ca/NSERC-CRSNG/FundingDecisions-DecisionFinancement/2021/Vaccine_eng.asp#tphp

⁶⁰ Natural Sciences and Engineering Research Council of Canada. (2021, July 26). *Encouraging vaccine confidence in Canada*. Retrieved November 3, 2021, from https://www.nserc-crsng.gc.ca/Promoter-Promotion/VaccineConfidence_eng.asp

⁶¹ *Encouraging vaccine confidence in Canada*. (2021, December 7). COVID-19 Solutions. <https://archive.ph/P4nVW>

⁶² *McMaster researcher plays key role in isolating COVID-19 virus for use in urgent research*. (2020, March 13). Faculty of Health Sciences; McMaster University. <https://archive.ph/ut6sS>

⁶³ Massey, C. (2020, September 18). *University of Toronto, McMaster University, Sunnybrook HSC & Mount Sinai Hospital have no record of “COVID-19 virus” isolation*. Fluoride Free Peel. <https://archive.ph/7ALy9>

⁶⁴ *Endowment Fund 2020-2021*. (2021, April). McMaster University. <https://sway.office.com/Li8C5NULqLRBXDp4>

instalment of the “Changing the way we work” series delivered alongside the **University of Toronto**.⁶⁵

The OCFP is partnered with **Immunize Canada**, which is funded by **Pfizer, Moderna, Merck, GlaxoSmithKline, Sanofi** and **Seqirus**.⁶⁶

10. Ontario COVID-19 Science Advisory Table

Abdurrahman is a member of the **Drugs & Biologics Clinical Practice Guidelines Working Group** on the Ontario COVID-19 Science Advisory Table.⁶⁷

11. OntarioMD

Abdurrahman is employed by OntarioMD as a **Physician Peer Leader**, where she also sits on the **Board of Directors**.⁶⁸ OntarioMD is a wholly-owned subsidiary of the **Ontario Medical Association**, funded by the **Province of Ontario**.⁶⁹ This is **not fully disclosed on her OST disclosure forms**, and is omitted from her OST bio.

12. Ontario Medical Association

Abdurrahman is the Chair for the **Section of Allergy and Clinical Immunology** at the Ontario Medical Association as well as a member of the **OMA Civility, Diversity, and Inclusion** committee. She was elected to the board in May 2021.^{70, 71}

She features in the following OMA videos:

- “Doctors. We lead you to better health. (FULL)”⁷²
 - A poster can be seen in the background at 1:31, that says “Vaccines. Ask your Doctor. Not the Internet.”
- “Meet the Doctors: Dr. Zainab Abdurrahman”⁷³

⁶⁵ University of Toronto. (2021, January 15). *COVID-19 Community of Practice*. Department of Family & Community Medicine. <https://dfcm.utoronto.ca/event/covid-19-community-practice-1>

⁶⁶ Immunize Canada. (2021, October 18). *Member Organizations*. Retrieved December 1, 2021, from <https://immunize.ca/member-organizations>

⁶⁷ *About Us*. Ontario COVID-19 Science Advisory Table. Retrieved December 19, 2021, from <https://covid19-sciencetable.ca/about/#abdurrahman-zainab>

⁶⁸ *Board of Directors*. OntarioMD. Retrieved December 19, 2021, from <https://www.ontariomd.ca/about-us/our-organization/board-of-directors>

⁶⁹ *Our Organization*. OntarioMD. Retrieved December 19, 2021, from <https://www.ontariomd.ca/about-us/our-organization>

⁷⁰ Abdurrahman, Z. (2021, August 30). *Declaration of Interest*. Ontario COVID-19 Science Advisory Table. https://covid19-sciencetable.ca/wp-content/uploads/2021/02/Declaration-of-Interest_Drugs-and-Biologics-Clinical-Practice-Guidelines-Working-Group_Zainab-Abdurrahman_20210830.pdf

⁷¹ *Board of Directors - Zainab Abdurrahman*. Ontario Medical Association. Retrieved December 19, 2021, from <https://www.oma.org/what-we-do/about-the-oma/governance/board-of-directors/#:~:text=Zainab%20Abdurrahman%2C%20MD>

⁷² Ontario Medical Association. (2020, January 27). *Doctors. We lead you to better health. (FULL)*. YouTube. <https://www.youtube.com/watch?v=OSVA1FIQDOQ>

⁷³ Ontario Medical Association. (2020, January 27). *Meet the Doctors: Dr. Zainab Abdurrahman*. YouTube. <https://www.youtube.com/watch?v=0IX-TIXNrgk>

The OMA receives significant funding through the Ontario Medical Foundation from **AstraZeneca, Amgen, Bayer, GlaxoSmithKline, Merck, Pfizer, Pharmacia** (Now a Pfizer company. Former parent company of **Monsanto**.)^{74, 75}

13. Pharmaceutical Companies

Abdurrahman receives funding from through fees paid for speakers bureau/honoraria, and for work on advisory boards from the following pharmaceutical companies:

- **ALK** (allergy pharmaceuticals)
- **Bausch Health** (pharmaceutical company testing virazole for COVID-19 treatment)⁷⁶
- **Medexus Pharmaceuticals** (formerly **Pediapharm** - rare disease pharmaceutical company)⁷⁷
- **Merck**
- **Miravo Healthcare** (formerly **Aralez**)
- **Novartis**
- **Pfizer** (this was **not reported** in her OST disclosures or biography)⁷⁸
- **Sanofi-Genzyme Covis** (specialty care global business unit of **Sanofi**, focused on rare diseases, rare blood disorders, neurology, immunology, and oncology)⁷⁹
- **Stallergenes-Greer** (global biopharmaceutical company headquartered in London, specializing in the diagnosis and treatment of respiratory allergies through immunotherapy)⁸⁰

She also holds stock and/or stock options in **Pediapharm** (presumably under the new name **Medexus Pharmaceuticals**), and other unnamed “health care based ETFs”, noting she therefore “may have holdings in pharmaceutical companies”.

⁷⁴ Pfizer. *Pharmacia Merger*. Retrieved December 4, 2021, from https://www.pfizer.com/about/history/pfizer_pharmacia

⁷⁵ Ontario Medical Association. *Your impact*. Retrieved December 4, 2021, from <https://www.oma.org/what-we-do/ontario-medical-foundation/your-impact/>

⁷⁶ Keller, L., & Shannon, A. (2020, April 13). *Bausch Health Initiates VIRAZOLE® (Ribavirin for Inhalation Solution, USP) Clinical Study in Patients with COVID-19*. Bausch Health. <https://ir.bauschhealth.com/news-releases/2020/04-13-2020-120008693>

⁷⁷ Medexus Pharmaceuticals Inc. (2018, December 13). *Pediapharm Announces Name Change, Consolidation and Debenture Repayment*. GlobeNewswire News Room.

<https://www.globenewswire.com/en/news-release/2018/12/13/1666975/0/en/Pediapharm-Announces-Name-Change-Consolidation-and-Debenture-Repayment.html>

⁷⁸ See McMaster University section.

⁷⁹ *Specialty Care*. Sanofi. Retrieved December 19, 2021, from <https://www.sanofi.com/en/your-health/specialty-care>

⁸⁰ *Stallergenes Greer's commitment during the COVID-19 pandemic*. Stallergenes Greer. Retrieved December 19, 2021, from <https://www.stallergenesgreer.com/ca/stallergenes-greers-commitment-during-covid-19-pandemic>

14. Public Health Agency of Canada

Abdurrahman conducted “contract work for the Public Health Agency of Canada” in 2005.⁸¹

15. Q & A Allergy

Abdurrahman practices medicine at Q & A Allergy in Mississauga.⁸² The clinic advocates for patients with allergies to components of the COVID-19 shots to take a dose anyway, even after an initial allergic reaction.⁸³

16. Scarborough Health Centre

Abdurrahman practices medicine at Scarborough Health Centre.⁸⁴ As a member of **Scarborough Health Network**, the facility receives funding from a very long list of organizations that create a potential conflict of interest, including **Pfizer, Janssen/Johnson & Johnson, AstraZeneca, IBM, Novartis, Sanofi, Eli Lilly, GlaxoSmithKline, Amgen, Abbott, Merck, University of Toronto, Bayer, Bristol-Myers Squibb, Canadian Pacific Railway Co., Abbvie, Coca-Cola**, and others.⁸⁵

17. St Joseph's Healthcare System

Abdurrahman has hospital privileges at St Joseph's Healthcare System, a **University of Toronto**-associated hospital who receives funding from **Abbott Laboratories**,⁸⁶ **Janssen/Johnson**

⁸¹ Abdurrahman, Z. *Zainab Abdurrahman CV*. Retrieved December 19, 2021, from https://www.drza.org/files/uqd/31151c_79d3d18115ad40be9c62c1fa754d577a.pdf

⁸² *Dr. A Discusses Allergies and the COVID 19 mRNA Vaccines on CBC*. (2020, December 17). Q & A Allergy. <https://www.qandaallergy.ca/post/dr-a-discusses-allergies-and-the-covid-19-mrna-vaccines-on-cbc>

⁸³ *Vaccination Exemptions*. (2021, October 13). Q & A Allergy. <https://www.qandaallergy.ca/post/vaccination-exemptions>

⁸⁴ *About | DR. ZAINAB ABDURRAHMAN*. (2021). Dr. Z. Abdurrahman. <https://archive.ph/9PwMm>

⁸⁵ Scarborough Health Network Foundation. *Our Donors*. Retrieved November 30, 2021, from <https://www.shnfoundation.ca/our-donors/>

⁸⁶ Canadian Public Health Laboratory Network Laboratory Directors Council & Canadian Public Health Laboratory Network Respiratory Virus Infection Working Group. (2021). *Interim guidance on the use of the Abbott Panbio™ COVID-19 Antigen Rapid Test*. Canada Communicable Disease Report, 47(1), 17–22. <https://doi.org/10.14745/ccdrv47i01a04>

& Johnson,^{87, 88, 89} **Pfizer,**⁹⁰ **Merck,**⁹¹ **Rogers Communications, Sanofi,** and **Eli Lilly.**⁹² Employs **Richard Choi,** husband of Medical Officer of Health for the **City of Toronto Eileen de Villa.**⁹³

18. University of Toronto

Abdurrahman is a 2007 graduate of the University of Toronto Medical School.⁹⁴ U of T hosts and funds the **Ontario COVID-19 Science Advisory Table** through the **Dalla Lana School of Public Medicine.**⁹⁵ The University received \$49,418.00 CAD from the “Encouraging vaccine confidence in Canada” grant from the **Government of Canada** via the **Natural Sciences and Engineering Research Council (NSERC), the Social Sciences and Humanities Research Council (SSHRC), and the Canadian Institutes of Health Research (CIHR),** for a proposal titled "Training peers in motivational interviewing to increase vaccine confidence among healthcare workers in a large, urban healthcare institution".⁹⁶

⁸⁷ Dyck, M., & Nyilassy, S. (2021, May 5). *St. Joseph's Health Centre Foundation Impact Report Spring 2021*. Support St. Joe's. Retrieved November 22, 2021, from

https://supportstjoes.ca/wp-content/uploads/2021/06/SJHC-0015-21_ImpactReport-R6-FINAL-May-5-21-2.pdf

⁸⁸ Chapman, L., & Dyck, M. (2017, July). *St. Joseph's Health Centre Foundation Impact Report Summer 2017*. Support St. Joe's. Retrieved November 22, 2021, from

https://supportstjoes.ca/wp-content/uploads/2017/07/SJHC-ImpactReportNewsletter_FIN_LoRes.pdf

⁸⁹ Dyck, M. (2015). *Impact Donor Report 2015*. Support St. Joe's. Retrieved November 23, 2021, from

https://supportstjoes.ca/wp-content/uploads/2017/03/SJHC-0022-15_ImpactReport_FIN-1.pdf

⁹⁰ Dubczak, R., & Dyck, M. (2018). *Joseph's Health Centre Foundation Impact Report Spring 2018*. Support St. Joe's. Retrieved November 22, 2021, from <https://supportstjoes.ca/wp-content/uploads/2018/09/Spring-2018-Impact-Report-low-res.pdf>

⁹¹ *Pharmaceutical Technology*. (2021, October 28). Merck Frosst Centre for Therapeutic Research. Retrieved November 22, 2021, from <https://www.pharmaceutical-technology.com/projects/merckfrosstcentrefor/>

⁹² *CPSO - Doctor Details*. College of Physicians and Surgeons of Ontario. Retrieved December 19, 2021, from

<https://doctors.cpso.on.ca/DoctorDetails/Abdurrahman-Zainab-Bukola/0242305-86703>

⁹³ Gardos, A. (2020, May 19). *Eileen de Villa is not freaking out*. Toronto Life. Retrieved November 22, 2021, from

<https://torontolife.com/city/eileen-de-villa-toronto-medical-officer-of-health-covid-response/>

⁹⁴ *Board of Directors*. Ontario Medical Association. Retrieved January 2, 2022, from <https://archive.ph/SFYgb>

⁹⁵ *About Us*. Ontario COVID-19 Science Advisory Table. Retrieved December 13, 2021, from <https://covid19-sciencetable.ca/about/>

⁹⁶ Natural Sciences and Engineering Research Council of Canada. (2021, July 26). *Encouraging vaccine confidence in Canada - Competition Results*. Natural Sciences and Engineering Research Council of Canada (NSERC). Retrieved November 3, 2021, from https://www.nserc-crsng.gc.ca/NSERC-CRSNG/FundingDecisions-DecisionFinancement/2021/Vaccine_eng.asp#tphp



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UP-TO-DATE AS OF JANUARY 6, 2022

Rubicon Strategy

Appendix A

Summary of Companies with Interest in COVID-19

January 7, 2021

Abbott Laboratories

- Parent company of **AbbVie**.¹
- Manufacturer of rapid antigen COVID-19 tests being mandated across Canada.^{2,3}

ALK

- Producing “**allergy vaccines**” described as “reprogramming your immune system” using immunotherapy - the basis for the COVID-19 mRNA and DNA vector vaccine products.⁴

AstraZeneca

- Distributing a viral vector-based COVID-19 vaccine product in Canada and other countries. Marketed in Canada as **Vaxzevria**.⁵

Bausch Health

- Pharmaceutical company that reported “revenues were \$2.100 billion for the second quarter of 2021, as compared to \$1.664 billion in the second quarter of 2020, **an increase**”

¹ *Our Company*. AbbVie | Pharmaceutical Research & Development. Retrieved December 6, 2021, from <https://www.abbvie.com/our-company.html>

² Canadian Public Health Laboratory Network Laboratory Directors Council & Canadian Public Health Laboratory Network Respiratory Virus Infection Working Group. (2021). *Interim guidance on the use of the Abbott Panbio™ COVID-19 Antigen Rapid Test*. Canada Communicable Disease Report, 47(1), 17–22. <https://doi.org/10.14745/ccdr.v47i01a04>

³ Dueck, S. (2021, December 6). *New vaccine rules take effect today for 12 to 17 year olds*. Steinbach Online. Retrieved December 6, 2021, from <https://steinbachonline.com/local/new-vaccine-rules-take-effect-today-for-12-to-17-year-olds>

⁴ *Allergy vaccines*. ALK. Retrieved January 7, 2022, from <https://archive.ph/DYIZk>

⁵ Health Canada. (2021, November 23). *AstraZeneca Vaxzevria COVID-19 vaccine*. Government of Canada. Retrieved December 5, 2021, from <https://www.canada.ca/en/health-canada/services/drugs-health-products/covid19-industry/drugs-vaccines-treatments/vaccines/astrazeneca.html>

of **\$436 million**, which was primarily due to higher volumes resulting from the positive impacts of the recovery from the COVID-19 pandemic.”⁶

Bayer

- Part of the COVID-19 Therapeutics Accelerator funded by the **Bill & Melinda Gates Foundation, Wellcome Trust, and Mastercard** to “accelerate treatments, vaccines, and diagnostics”.⁷

Bristol-Myers Squibb

- Holds the exclusive license to develop, manufacture and commercialize the monoclonal antibody treatment owned by **Rockefeller University**.⁸
- Part of the COVID-19 Therapeutics Accelerator funded by the **Bill & Melinda Gates Foundation, Wellcome, and Mastercard** to “accelerate treatments, vaccines, and diagnostics”.

Eli Lilly

- Has FDA Emergency Use Authorization for three experimental COVID-19 drugs: **Bamlanivimab, Etesevimab and Olumiant** (in combination with **Remdesivir**).^{9,10}
- Part of the COVID-19 Therapeutics Accelerator funded by the **Bill & Melinda Gates Foundation, Wellcome, and Mastercard** to “accelerate treatments, vaccines, and diagnostics”.

Gilead

- Developer of **Remdesivir**, the only “FDA-approved” COVID-19 treatment.¹¹
- Part of the COVID-19 Therapeutics Accelerator funded by the **Bill & Melinda Gates Foundation, Wellcome, and Mastercard** to “accelerate treatments, vaccines, and diagnostics”.

⁶ NewsRoom. (2021, August 3). Bausch Health. <https://archive.ph/wW3vJ>

⁷ Bill & Melinda Gates Foundation. (2020, March 25). *Life Science Companies Commit to the Fight Against COVID-19 Pandemic alongside Gates Foundation*. Retrieved December 6, 2021, from <https://www.gatesfoundation.org/Ideas/Media-Center/Press-Releases/2020/03/Life-Science-Companies-Commit-to-the-Fight-Against-COVID-19-Pandemic-alongside-Gates-Foundation>

⁸ Bristol-Myers Squibb. (2021, September 7). *COVID-19 Updates*. Retrieved December 6, 2021, from <https://www.bms.com/about-us/responsibility/coronavirus-updates.html>

⁹ O’Shaughnessy, J. A., PhD. (2021, December 3). *RE: Emergency Use Authorization 094*. Eli Lilly. Retrieved December 6, 2021, from <http://pi.lilly.com/eua/bam-and-ete-eua-fda-authorization-letter.pdf>

¹⁰ Hinton, D. M. (2021, July 28). *Baricitinib EUA FDA Authorization Letter*. Eli Lilly. Retrieved December 6, 2021, from <http://pi.lilly.com/eua/baricitinib-eua-fda-authorization-letter.pdf>

¹¹ COVID-19 Treatment Guidelines Panel. *Remdesivir*. COVID-19 Treatment Guidelines. Retrieved December 6, 2021, from <https://www.covid19treatmentguidelines.nih.gov/therapies/antiviral-therapy/remdesivir/>

IBM

- Marketing a vaccine passport app called “Digital Health Pass”, which are now being mandated for almost all daily life activities in Canada including air travel, school, restaurants and in grocery stores.^{12, 13, 14}

Janssen

- Pharmaceutical arm of **Johnson & Johnson**. Distributing a recombinant COVID-19 vaccine product in the United States.¹⁵ Approved, but not widely distributed in Canada.¹⁶
- Part of the COVID-19 Therapeutics Accelerator funded by the **Bill & Melinda Gates Foundation, Wellcome, and Mastercard** to “accelerate treatments, vaccines, and diagnostics”.

Medicago

- Developing a COVID-19 vaccine product with **GlaxoSmithKline**.^{17, 18}

Merck

- Original patent holder for **Ivermectin** which has been available for decades and is now off-patent.¹⁹ It has proven to be highly effective at preventing and treating COVID-19.²⁰
- Producing an experimental oral “antiviral” pill for COVID-19 called **Molnupiravir**.^{21, 22}

¹² IBM. *Digital Health Pass - Overview*. Retrieved December 6, 2021, from <https://www.ibm.com/products/digital-health-pass>

¹³ Quito, A. (2021, July 22). *More than 450 airlines can now use IBM's Digital Health Pass*. Quartz. Retrieved December 6, 2021, from <https://qz.com/2036529/more-than-450-airlines-can-now-use-ibms-digital-health-pass/>

¹⁴ Government Communications and Public Engagement. (2021, December 3). *Proof of vaccination information for businesses*. Province of British Columbia. Retrieved December 6, 2021, from

<https://www2.gov.bc.ca/gov/content/covid-19/vaccine/proof/businesses>

¹⁵ National Center for Immunization and Respiratory Diseases. (2021, November 4). *Administration Overview for Johnson & Johnson's Janssen COVID-19 Vaccine*. U.S. Centers for Disease Control and Prevention (CDC). Retrieved December 5, 2021, from <https://archive.ph/svpa1>

¹⁶ Health Canada. (2021, March 5). *Janssen COVID-19 Vaccine*. Government of Canada. Retrieved December 5, 2021, from <https://covid-vaccine.canada.ca/janssen-covid-19-vaccine/product-details>

¹⁷ Steel, S., Moore, S., Quinn, K., Elton-Farr, S., Dodwell, J., & McLaughlin, J. (2021, October 1). *Medicago to launch clinical trials for COVID-19 vaccine candidate with GSK's pandemic adjuvant in Japan*. Medicago. Retrieved December 6, 2021, from

<https://medicago.com/en/press-release/medicago-to-launch-clinical-trials-for-covid-19-vaccine-candidate-with-gsk-s-pandemic-adjuvant-in-japan/>

¹⁸ Palca, J. (2021, June 6). *A New Type Of COVID-19 Vaccine Could Debut Soon*. NPR. Retrieved December 6, 2021, from <https://www.npr.org/sections/health-shots/2021/06/06/1003328413/new-type-of-covid-vaccine-could-debut-soon>

¹⁹ Speare, R., & Durrheim, D. (2004). *Mass treatment with ivermectin: an underutilized public health strategy*. Bulletin of the World Health Organization, 82(8), 562.

²⁰ <https://c19ivermectin.com/>

²¹ Kilgore, T. (2021, December 3). *Merck to supply Government of Canada with up to 1 million courses molnupiravir, its COVID-19 pill*. MarketWatch. Retrieved December 5, 2021, from

<https://www.marketwatch.com/story/merck-to-supply-government-of-canada-with-up-to-1-million-courses-molnupiravir-its-covid-19-pill-2021-12-03>

²² Moody, M., Ryan, P., Dannenbaum, P., Kruper, R., & Carvalho, C. (2021, October 1). *Merck and Ridgeback's Investigational Oral Antiviral Molnupiravir Reduced the Risk of Hospitalization or Death by Approximately 50 Percent Compared to Placebo for Patients with Mild or Moderate COVID-19 in Positive Interim Analysis of Phase 3 Study*. Merck. Retrieved December 5, 2021, from

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- Part of the COVID-19 Therapeutics Accelerator funded by the **Bill & Melinda Gates Foundation, Wellcome, and Mastercard** to “accelerate treatments, vaccines, and diagnostics”.

Novartis

- Developing a COVID-19 therapeutic with **Molecular Partners** called **Ensovibep**.²³
- Part of the COVID-19 Therapeutics Accelerator funded by the **Bill & Melinda Gates Foundation, Wellcome, and Mastercard** to “accelerate treatments, vaccines, and diagnostics”.

Pfizer

- Distributing a gene therapy COVID-19 vaccine product developed with German company **BioNTech**. Marketed in Canada as **Comirnaty**.²⁴
- Producing an experimental oral “antiviral” pill for COVID-19 called **Paxlovid**.²⁵
- Part of the COVID-19 Therapeutics Accelerator funded by the **Bill & Melinda Gates Foundation, Wellcome, and Mastercard** to “accelerate treatments, vaccines, and diagnostics”.

Sanofi

- Developing a COVID-19 vaccine product with **GlaxoSmithKline**.²⁶
- Part of the COVID-19 Therapeutics Accelerator funded by the **Bill & Melinda Gates Foundation, Wellcome, and Mastercard** to “accelerate treatments, vaccines, and diagnostics”.

<https://www.merck.com/news/merck-and-ridgebacks-investigational-oral-antiviral-molnupiravir-reduced-the-risk-of-hospitalization-or-death-by-approximately-50-percent-compared-to-placebo-for-patients-with-mild-or-moderate-covid-19/>

²³ Meo, M., Masow, J., Ustun, A., Shah, S., Hungerbuehler, T., Zinck, I., & Simpson, S. (2021, May 27). *Novartis and Molecular Partners announce start of EMPATHY clinical trial for ensovibep for the treatment of COVID-19*. Novartis. Retrieved December 6, 2021, from <https://www.novartis.com/news/media-releases/novartis-and-molecular-partners-announce-start-empathy-clinical-trial-ensovibep-treatment-covid-19>

²⁴ Health Canada. (2021, December 3). *Pfizer-BioNTech Comirnaty COVID-19 vaccine*. Government of Canada. Retrieved December 5, 2021, from <https://www.canada.ca/en/health-canada/services/drugs-health-products/covid19-industry/drugs-vaccines-treatments/vaccines/pfizer-biontech.html>

²⁵ Pfizer. (2021, November 5). *Pfizer's Novel COVID-19 Oral Antiviral Treatment Candidate Reduced Risk of Hospitalization or Death by 89% in Interim Analysis of Phase 2/3 EPIC-HR Study*. Retrieved December 5, 2021, from <https://www.pfizer.com/news/press-release/press-release-detail/pfizers-novel-covid-19-oral-antiviral-treatment-candidate>

²⁶ Guendoul, S., Kressmann, N., Schaefer-Jansen, E., Delépine, A., Pham, N., & Lauscher, F. (2021, September 28). *Sanofi announces positive Phase 1/2 study interim results for its first mRNA-based vaccine candidate*. Sanofi. Retrieved December 6, 2021, from <https://www.sanofi.com/en/media-room/press-releases/2021/2021-09-28-08-00-00-2304069>

Appendix B

Summary of Relevant World Economic Forum Member Organizations

January 7, 2021

The **World Economic Forum** is a Non-Governmental Organization (NGO) and lobbying group founded by German economist and mechanical engineer **Klaus Schwab** in Switzerland in 1971.

Schwab is the author of a number of books including **The Fourth Industrial Revolution, The Great Reset, Stakeholder Capitalism, Reimagining Japan: the Quest for a Future that Works, The World Economic Forum: A Partner in Shaping History, The Aftermath of the COVID-19 Pandemic** and others.¹

Abbott Laboratories

World Economic Forum. *Abbott Laboratories*. Retrieved December 27, 2021, from <https://www.weforum.org/organizations/abbott-laboratories>

AstraZeneca

World Economic Forum. (2021, June 18). *AstraZeneca*. Retrieved December 6, 2021, from <https://www.weforum.org/organizations/astrazeneca>

Bayer

World Economic Forum. (2021, July 15). *Bayer*. Retrieved December 6, 2021, from <https://www.weforum.org/organizations/bayer-d57cbbcd2e>

¹ GoodReads. *Klaus Schwab (Author of The Fourth Industrial Revolution)*. Retrieved December 6, 2021, from https://www.goodreads.com/author/show/223124.Klaus_Schwab

Bill & Melinda Gates Foundation

World Economic Forum. *Bill & Melinda Gates Foundation*. Retrieved January 6, 2022, from <https://archive.ph/mNeiT>

BlackRock

World Economic Forum. (2021, June 10). *BlackRock*. <https://archive.ph/pcpjt>

BMO Financial Group

World Economic Forum. *BMO Financial Group*. Retrieved January 6, 2022, from <https://www.weforum.org/organizations/bmo-financial-group>

Brookfield Asset Management

World Economic Forum. *Brookfield Asset Management*. Retrieved January 6, 2022, from <https://www.weforum.org/organizations/brookfield-asset-management>

Coca-Cola

World Economic Forum (2019). *The Coca-Cola Company*. <https://archive.ph/zuDnE>

IBM

World Economic Forum. *IBM*. Retrieved December 24, 2021, from <https://www.weforum.org/organizations/ibm-corporation>

Johnson & Johnson

World Economic Forum. (2021, March 17). *Johnson & Johnson*. Retrieved December 6, 2021, from <https://www.weforum.org/organizations/johnson-johnson>

Marriott International

World Economic Forum. *Marriott International*. Retrieved January 6, 2022, from <https://archive.ph/oWOMe>

Merck

World Economic Forum. *Merck*. Retrieved December 6, 2021, from <https://www.weforum.org/organizations/merck>

Microsoft

World Economic Forum. *Microsoft*. Retrieved January 6, 2022, from <https://www.weforum.org/organizations/microsoft-corporation>

Moderna

World Economic Forum. *Moderna*. Retrieved January 6, 2022, from <https://archive.ph/ENef9>

Morgan Stanley

World Economic Forum. *Morgan Stanley*. Retrieved January 7, 2022, from <https://archive.ph/EOZHI>

Nestlé

World Economic Forum. *Nestlé*. Retrieved January 6, 2022, from <https://archive.ph/v28rB>

Novartis

World Economic Forum. *Novartis*. Retrieved December 6, 2021, from <https://www.weforum.org/organizations/novartis-ag>

PepsiCo

World Economic Forum. *PepsiCo*. Retrieved January 6, 2022, from <https://archive.ph/iC06d>

Pfizer

World Economic Forum. (2020, November 23). *Pfizer*. Retrieved December 6, 2021, from <https://www.weforum.org/organizations/pfizer>

RBC Royal Bank of Canada

World Economic Forum. *RBC (Royal Bank of Canada)*. Retrieved January 6, 2022, from <https://www.weforum.org/organizations/rbc-financial-group>

Sanofi

World Economic Forum. *Sanofi*. Retrieved December 6, 2021, from <https://www.weforum.org/organizations/sanofi>

Takeda Pharmaceutical

World Economic Forum. *Takeda Pharmaceutical*. Retrieved January 6, 2022, from <https://archive.ph/yiMAh>

TD Bank Group

World Economic Forum. *TD Bank Group*. Retrieved December 24, 2021, from <https://web.archive.org/web/20211224204936/https://www.weforum.org/organizations/td-bank-group>

Wal-Mart

World Economic Forum. *Walmart Inc.* Retrieved December 24, 2021, from <https://www.weforum.org/organizations/wal-mart-stores-inc>