

Primary Sources

Bencks, Jarret. "Smallpox was defeated, but it wasn't easy. Here's how it's relevant to COVID-19. | BrandeisNOW." Brandeis University, 4 May 2020, <https://www.brandeis.edu/now/2020/may/smallpox-and-coronavirus-willrich.html>. Accessed 27 March 2024.

This source gave us a picture that we used in 'Opinions' of a flier promoting smallpox from the 1900's. That was a primary source but the website is a secondary source.

Bristol, Nellie. "Smallpox Eradication: A Model for Global Cooperation." CSIS, 17 May 2023, <https://www.csis.org/analysis/smallpox-eradication-model-global-cooperation>. Accessed 11 May 2024.

This source gave us a picture we used in 'Eradication'. That was a primary source, but the website is a secondary source.

Earl, Elizabeth. "How Today's Anti-Vaccination Movement Traces Back to Victorian England." The Atlantic, 15 July 2015, <https://www.theatlantic.com/health/archive/2015/07/victorian-anti-vaccinators-personal-belief-exemption/398321/>. Accessed 20 April 2024.

This source gave us a picture that we used in 'Opinions' of an anti-vaccine cartoon. That was a primary source but the website is a secondary source.

Evon, Dan. "FACT CHECK: Two Boys — One Vaccinated, One Not — Exposed to Smallpox?" Snopes, 13 June 2018, <https://www.snopes.com/fact-check/one-vaccinated-one-not-smallpox/>. Accessed 8 May 2024.

This source has given us a picture that we used in background about one child vaccinated and one child unvaccinated in comparison. That was a primary source but the website is a secondary source.

Grogan, Katie. "The Vaccine Project – Literature Arts & Medicine Magazine." Literature Arts Medicine Database, 6 November 2015, <https://medhum.med.nyu.edu/magazine/archives/11033>. Accessed 21 April 2024.

This source gave us a picture we used in 'Opinions' about vaccination. That was a primary source but the website is a secondary source.

Henderson, Donald A. Smallpox: The Death of a Disease. Prometheus, 2009.

The book taught us what ring vaccination was, what was the process of it, and how it helped eradicate smallpox from the world. It also gave us a lot of information about the smallpox eradication because it was made by one of the main important people, who

played a great part in the eradication of smallpox.

American History from Revolution to Reconstruction and Beyond. To Dr. Edward Jenner Monticello, May 14, 1806 < The Letters of Thomas Jefferson 1743-1826 < Thomas Jefferson < Presidents < American History From Revolution To Reconstruction and beyond, American History from Revolution to Reconstruction and Beyond, <https://www.let.rug.nl/usa/presidents/thomas-jefferson/letters-of-thomas-jefferson/jefl172.php>. Accessed December 2023.

This source gave us a picture of a letter from Thomas Jefferson to Edward Jenner that we used in 'Opinions'. That was a primary source but the website is a secondary source.

Iannelli, Vincent. "Edward Jenner - VAXOPEDIA." Vaxopedia, 4 October 2016, <https://vaxopedia.org/2016/10/04/edward-jenner/>. Accessed 11 May 2024.

This source gave us a picture of one of the pages in "The Inquiry and the Cause and the Effect of The Variolae Vaccinae" and we used that picture in 'Discovery'. The picture is a primary source but the website is a secondary source.

International Collegiate Journal of Science, 15 December 2020, <https://icjs.us/edward-jenner-cowpox-inoculation-and-the-history-of-vaccines/>. Accessed 14 February 2024.

This source gave us the picture of the smallpox inoculation vs cowpox inoculation picture in 'Discovery'. That was a primary source but the website is a secondary source.

Jenner, Edward. An Inquiry into the Causes and Effects of Variolae Vaccine. London, Edward Jenner, 1798. Accessed 5 January 2024.

This book has helped us learn what Edward Jenner wrote about and what research he undertook as well as all of his thoughts and other observations while talking about smallpox and cowpox.

Smith, Kendall A. "Edward Jenner and the Smallpox Vaccine." Frontiers, 14 June 2011, <https://www.frontiersin.org/journals/immunology/articles/10.3389/fimmu.2011.00021/full>. Accessed 27 March 2024.

This source gave us a picture that we used in 'Discovery' about the hands of Sarah Nelms, who was the milkmaid that gave Jenner cowpox material to give to James Phipps. That was a primary source but the website is a secondary source.

Strauss, Daniel. "Jill Stein: Calling me 'anti-vaxxer' is like calling Obama a secret Kenyan." Politico, 8 November 2016, <https://www.politico.com/story/2016/11/jill-stein-not-anti-vaccine-230941>. Accessed December 2023.

This source gave us a quote that we used in 'Impacts' about how vaccines were a great invention and how they are very important for getting rid of diseases. That was a primary source but the website is a secondary source.

WHO Chief of Eradication Program, director. Smallpox Eradication Interview Dr. Henderson. Pan American Health Organization, 2010.

This video gave us clips of an interview with Dr. Henderson, this helped us understand what WHO did and what happened on the inside. We used a clip from this interview in 'Eradication'

"An inquiry into the causes and effects of the variolae vaccinae: a disease discovered in some of the western counties of England, particularly Gloucestershire, and known by the name of the cowpox - Digital Collections - National Library of Medicine." NLM Digital Collections, <https://collections.nlm.nih.gov/catalog/nlm:nlmuid-2559001R-bk>. Accessed 17 April 2024.

This source has provided us with the book that Edward Jenner had created with his research in the past. In this book Jenner also talks about problems he faces with getting cowpox sores for his experiments.

"Center for the History of Medicine." Later Career To slay the Devouring monster Benjamin Waterhouse later career, <https://collections.countway.harvard.edu/onview/exhibits/show/to-slay-the-devouring-monster/benjamin-waterhouse/after-career>. Accessed December 2023.

This source gave us a quote that we used in 'Opinions' about how vaccination saves millions of lives. This was a primary source but the website is a secondary source.

National Library of Medicine. "Donald Ainslie (D. A.) Henderson, MD, MPH (1928–2016) Smallpox Eradication: Leadership and Legacy." NCBI, National Library of Medicine, 7 February 2017, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5388283/>. Accessed 21 April 2024.

This source gave us a picture that we used in 'Eradication' showing a statue representing the smallpox eradication. That was a primary source but the website is a secondary source.

"History of Smallpox Vaccination." World Health Organization, World Health Organization, www.who.int/news-room/spotlight/history-of-vaccination/history-of-smallpox-vaccination. Accessed Dec. 2023.

This helped us with understanding how WHO eradicated smallpox. We also used this website for pictures that we used in 'Discovery' and 'Eradication'. Those pictures were primary sources and so is the website because the WHO is a primary source.

“LibGuides: Primary Sources: Plagues, Epidemics, & Pandemics: Smallpox.” LibGuides at Christopher Newport University, 26 January 2024, <https://cnu.libguides.com/diseases/smallpox>. Accessed January 2024.
This source gave us links to the websites that had pictures that we used in, background, discovery, and opinion. Those pictures are primary sources but the website is a secondary source.

“New exhibition Edward Jenner’s letters set to open at the Royal Society of Medicine.” The Royal Society of Medicine, 17 July 2023, <https://www.rsm.ac.uk/latest-news/2023/new-exhibition-uncovers-edward-jenners-pioneering-path-to-the-first-vaccine/>. Accessed 7 May 2024.
This source has given us a primary source image of a letter that we used in Steps to eradication titled “One of the letters from Edward Jenner to Dr Alexander Marcet”. It also gave us a quote we used in conclusion. These quotes and pictures are primary sources but the website is a secondary source.

“19th century vaccination certificate · History of the Smallpox Vaccine · IU Libraries Digital Exhibitions.” Digital Collections at Indiana University, <https://collections.libraries.indiana.edu/iulibraries/s/smallpox-vaccine-exhibit/item/420>. Accessed 8 May 2024.
This source has provided us with a primary source image of a vaccine certificate from the 1900s. That picture was a primary source but the website is a secondary source.

“Smallpox.” History of Vaccines, 9 April 2022, <https://historyofvaccines.org/history/smallpox/overview>. Accessed December 2023.
This source gave us pictures that we used in ‘Discovery’ and ‘Eradication’. This source also gave us a quote we used in ‘Previous Smallpox Prevention’. This website also gave us lots of background on smallpox. It also provided us with a time-line with lots of information.

The National Archives. “Victorian Health Reform.” <https://www.nationalarchives.gov.uk/education/resources/victorian-health-reform/>. Accessed 27 March 2024.
This source has given us a picture that we used in ‘Steps to eradication’ showing a letter from Andrew Logan protesting the compulsory vaccination bill. The picture is a primary source but the website is a secondary source.

Wright, Jennifer. “Get Well Soon Page 9.” Book Read Free, <https://bookreadfree.com/269333/6636741>. Accessed 13 May 2024.
This source has provided us with a page of the book “Get Well Soon”. We used a quote from this website from the book on the ‘impacts’ page about the Aztecs and the Incas.

“You Should Get Vaccinated: The Leicester Method - 19th century.” The Past is a Foreign Pantry, 29 March 2020, <https://thepastisaforeignpantry.com/2020/03/29/the-leicester-method-19th-century/>. Accessed 21 February 2024.

This source gave us a picture of the smallpox vaccine being shown as a monster. We used this picture in our “Opinions” page of our website. This picture was a primary source but the website it was from was a secondary source.

Secondary Sources

Bencks, Jarret. “How smallpox changed the face of public health.” Futurity, 5 May 2020, <https://www.futurity.org/smallpox-covid-19-2355462/>. Accessed 17 April 2024.

This source has provided us with information about how the smallpox vaccine laid the groundwork for the safety regulations used today in long term impact.

Berche, Patrick. “Life and death of smallpox.” PubMed, 7 February 2022, <https://pubmed.ncbi.nlm.nih.gov/35143880/>. Accessed May 9 2024.

This source gave us the number of deaths smallpox caused in the 19th century. We used this research in our website on background, and to increase our knowledge in general.

Berenson, Cindy. “Key Vaccine Innovations Throughout History — Atlantic Health Partners.” Atlantic Health Partners, 24 August 2021, <https://www.atlantichealthpartners.com/immunization-insights/key-vaccine-innovations-throughout-history>. Accessed 16 April 2024

This source has given us information on live attenuated vaccines, how they help us, and what they are. This source also helped us learn that live attenuated vaccines were based on the smallpox vaccine.

Chodosh, Sara. “The first smallpox vaccine changed the world—but we're still not sure what was in it.” Popular Science, 12 October 2017, <https://www.popsci.com/what-was-in-original-smallpox-vaccine/>. Accessed 18 February 2024.

This source gave us a picture that we used in the thesis page of our website, of a vile of a dried version of the smallpox vaccine.

Cole, Brendan, et al. “Explosion Hits Russian Virus Research Center That Houses Smallpox and Ebola.” Newsweek, 17 September 2019, <https://www.newsweek.com/russia-novosibirsk-ebola-smallpox-1459556>. Accessed 18 February 2024.

This source gave us a picture we used in conclusion, it shows a microscoped version of smallpox up close.

Conti, Andrea Alberto. "Vaccination through time: from the first smallpox vaccine to current vaccination campaigns against the COVID-19 pandemic." NCBI, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8851018/>. Accessed 17 March 2024. *This source gave us general information about vaccines and their evolution through time. This source later also helped us get a better understanding of how the smallpox vaccine paved the way for modern vaccines leading up to the Covid 19 vaccine.*

Fiorino, S., and S. Sabbatani. "[The Antonine Plague and the decline of the Roman Empire]." PubMed, <https://pubmed.ncbi.nlm.nih.gov/20046111/>. Accessed 18 April 2024. *This source gave us information on how the Antonine Plague (believed to be smallpox) may have contributed to the fall of the Roman Empire. We used this information in our 'Background' page.*

Gerrish, S. "The Boston Smallpox Epidemic, 1721 | Contagion - CURIOSity Digital Collections." CURIOSity Digital Collections, <https://curiosity.lib.harvard.edu/contagion/feature/the-boston-smallpox-epidemic-1721>. Accessed 16 April 2024. *This source gave us information on how some people rejected the smallpox vaccine because they believed disease prevention interfered with God's will. We used this piece of information in 'Opinions'.*

Greenspan, Jesse. "The Rise and Fall of Smallpox." The Rise and Fall of Smallpox | HISTORY, 7 May 2015, <https://www.history.com/news/the-rise-and-fall-of-smallpox>. Accessed 14 April 2024. *This website has provided us with lots of information on smallpox and how it supposedly started in Egypt. It also gave us lots of information on the smallpox vaccine and past prevention methods.*

Gunawardhana, Nuwan. "Smallpox: History, cause, vaccine, and does it still exist?" Medical News Today, 28 February 2022, <https://www.medicalnewstoday.com/articles/smallpox#could-it-come-back>. Accessed 8 December 2023. *This source provided us with information about the symptoms and mortality rate of smallpox. It also gave us information about the last recorded case of smallpox.*

Gunderman, Richard. "How smallpox devastated the Aztecs – and helped Spain conquer an American civilization 500 years ago." PBS, 23 February 2019, <https://www.pbs.org/newshour/science/how-smallpox-devastated-the-aztecs-and-helped-spain-conquer-an-american-civilization-500-years-ago>. Accessed 8 May 2024. *This source gave us information of how smallpox decimated the populations of the Aztecs, Mayans, and Incas. We used this information in the 'Background' page in our website.*

Handu, Sanah. "Edward Jenner, Cowpox Inoculation, and the History of Vaccines - ICJS." Henschman, Daniel. "Smallpox, Inoculation, and the Revolutionary War (U.S.)" *National Park Service*, 9 January 2024, <https://www.nps.gov/articles/000/smallpox-inoculation-revolutionary-war.htm>. Accessed 25 March 2024.

This source gave us the idea that some people didn't accept the smallpox vaccine because it interfered with God's will. This source also gave us some pictures for our website.

HistoryOfVaccines.org, <https://historyofvaccines.org/vaccines-101/how-are-vaccines-made/vaccine-development-testing-and-regulation>. Accessed December 2023.

This source provided us with information all about vaccine regulation, testing and development.

Ian Bremmer: How to Change the World | Dr. Larry Brilliant & Eradicating Smallpox | GZERO World. Written by Ian Bremer, GZERO Media, 2020, <https://www.youtube.com/watch?v=KWlCqTPZ-vs>. Accessed 22 April 2024.

This source has given us a video clip about how people had advantages others didn't have in the past when attempting to eradicate smallpox. This video also mentions how these advantages provided the path to the eradication of smallpox.

Ochmann, Sophie, and Max Roser. "Smallpox." *Our World in Data*, 28 Dec. 2023, ourworldindata.org/smallpox.

This source helped us by giving us a brief history of the smallpox vaccine and it gave us a picture of a data graph of smallpox cases reported worldwide which we used in 'Steps to Eradication'. This source also told us about how smallpox caused economic losses to the world and gave us some information about how much money was lost due to smallpox in the late 1960s.

Rauner, Bruce. "Emergency Preparedness." Illinois Department of Public Health, <http://www.idph.state.il.us/Bioterrorism/photo2674.htm>. Accessed 12 May 2024.

This website has provided us with a picture of the smallpox vaccine and what it looks like now. We used this picture on the Homepage of our website.

Riedel, Stefan. "Edward Jenner and the history of smallpox and vaccination." *Proceedings (Baylor University. Medical Center)* vol. 18,1 (2005): 21-5. doi:10.1080/08998280.2005.11928028

This site helped us learn a brief history of the vaccine and its history. This source also has provided us with information about Edward Jenner and his research in the past.

The History of Vaccines! 6 July 2022. Youtube, Science North, https://www.youtube.com/watch?v=JGNVCVdIX8Q&ab_channel=ScienceNorth. Accessed 11 May 2024.

This source gave us a clip about Vaccines that was 35 seconds long that we used inside of the "Conclusion" page on our website. This source also gave us information about the smallpox vaccine, and vaccines in general.

Tuttle, Allie. Interview with Allie Tuttle on April, 1st, 2024 conducted by Enaaya Mohammed and Musfira Bhuiyan.

The interview has given us information on the smallpox vaccine in general, its history, its evolution and its impact. We used a quote from Allie Tuttle in the long term impact page.

Vankoughnett, Morgan. "Edward Jenner." Edward Jenner | MY HERO, <https://myhero.com/edward-jenner-2>. Accessed 17 April 2024.

This source has provided us with a quote from Edward Jenner talking about how he wishes the practice of vaccination is used in other places and smallpox ends. We used this quote in 'Discovery'.

"About Edward Jenner — The Jenner Institute." The Jenner Institute, <https://www.jenner.ac.uk/about/edward-jenner>. Accessed 23 March 2024.

This source gave us information on how Jenner heard about cowpox giving immunity to smallpox through folk-knowledge. This source also gave us information on Edward Jenner's opposition.

"A Brief History of Vaccination." World Health Organization (WHO), <https://www.who.int/news-room/spotlight/history-of-vaccination/a-brief-history-of-vaccination>. Accessed December 2023.

This source gave us a brief summary of what smallpox was and how Edward Jenner inoculated James Phipps. This source also gave us brief information about the vaccines that followed after the smallpox vaccine's creation.

"A narrative review of pox: smallpox vs monkeypox." NCBI, 13 December 2022, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9746567/>. Accessed December 2023.

This source gave us the history of Mpox and Smallpox as well as their similarities between them. We used this information briefly in the 'Impacts' page.

"Diphtheria Vaccines | National Vaccine Support Group." Immunization Info, <https://immunizationinfo.com/diphtheria-vaccines/>. Accessed 22 April 2024.

This source gave us a picture of the Diphtheria and Tetanus vaccines. We used this picture in 'Impacts'.

"Global Polio Eradication - Global Polio Eradication." Centers for Disease Control and Prevention, 1 December 2023, <https://www.cdc.gov/polio/global-polio-eradication.html>. Accessed 15 April 2024.

This source has provided us with information about the The Global Polio Eradication Program (GPEI) that we used in long term impact when we were talking about other eradication programs.

“Global Polio Eradication Initiative.” UNICEF, <https://www.unicef.org/chad/global-polio-eradication-initiative>. Accessed 22 April 2024. *This source gave us information on the Global Polio Eradication Program. As well as that it also gave us a picture of their logo that we used in our “Impacts” page.*

“Opinion | Powdered pus up the nose and other Chinese precursors to vaccinations.” South China Morning Post, 6 April 2020, <https://www.scmp.com/magazines/post-magazine/short-reads/article/3078436/powdered-pus-nose-and-other-chinese-precursors>. Accessed 21 April 2024. *This source gave us a picture that we used in ‘Previous smallpox Prevention’ showing variolation being done to a girl in ancient china to prevent her from smallpox.*

“Ring Vaccination | Smallpox | CDC.” Centers for Disease Control and Prevention, <https://www.cdc.gov/smallpox/bioterrorism-response-planning/public-health/ring-vaccination.html>. Accessed December 2023. *This source helped us to understand the process of ring vaccination and how it helped eradicate smallpox. We used information from this website in ‘Impacts’ and ‘Eradication’ in our website.*

“7 Deadliest Diseases in History: Where Are They Now?” Drugs.Com, 14 May 2023, www.drugs.com/medical-answers/7-deadliest-diseases-history-3573756/. *This site helped us by providing us with information about the death rate of smallpox and how the smallpox vaccine helps prevent Mpox. We used this information in ‘Background’ and ‘Impacts’.*

“Side Effects of Smallpox Vaccination | Smallpox | CDC.” Centers for Disease Control and Prevention, <https://www.cdc.gov/smallpox/vaccine-basics/vaccination-effects.html>. Accessed December 2023. *This source provided information that helped us learn the side effects of the smallpox vaccine and what may happen to you when you take the vaccine.*

“Smallpox.” FDA, 23 March 2018, <https://www.fda.gov/vaccines-blood-biologics/vaccines/smallpox>. Accessed 13 April 2024. *This source has provided us with information that helped us learn about the 4 types of Variola Major. We have used this information in the ‘Background’ page of our website.*

“Smallpox.” American Museum of Natural History, <https://www.amnh.org/explore/science-topics/disease-eradication/countdown-to-zero/smallpox>. Accessed 10 May 2024. *This source has given us a picture of smallpox that we used in the “background” page of our website of a singular patient with smallpox all over his face from the 1900s.*

“Smallpox - including symptoms, treatment and prevention.” SA Health, 02 April 2022, <https://www.sahealth.sa.gov.au/wps/wcm/connect/public+content/sa+health+internet/conditions/infectious+diseases/smallpox/smallpox+-+including+symptoms+treatment+and+prevention>. Accessed 9 February 2024.

This source has provided us information that helped us learn about how smallpox was spread, its incubation period, and the symptoms of smallpox. We've used this information in the 'background' page of our website.

“The History Of Vaccines: From Smallpox To Modern Immunization Programs.” The History of Vaccines,
<https://hogghistory.org/education-blog/history-vaccines-smallpox-modern-immunization-programs>. Accessed 14 April 2024.

This source has provided us with information about the polio vaccine, vaccine development, misinformation, and modern immunization programs. We used this information all throughout our project.

“The Scientific Method in Vaccine History | History of Vaccines.” HistoryOfVaccines.org,
<https://historyofvaccines.org/vaccines-101/how-are-vaccines-made/scientific-method-vaccine-history>. Accessed 15 April 2024.

This website has given us information about vaccines in general. It also gave us information about Edward Jenner and his observations and also taught us what the scientific method is.

“Vaccine Development, Testing, and Regulation | History of Vaccines.”

HistoryOfVaccines.org,
<https://historyofvaccines.org/vaccines-101/how-are-vaccines-made/vaccine-development-testing-and-regulation>. Accessed December 2023.

This website has provided us with research about the procedure of vaccination development, testing, and regulation now. This source also tells us about vaccines in general, and how they're made.

“Vaccines and vaccination: history and emerging issues.” Full article: Vaccines and vaccination: history and emerging issues, 5 March 2024,
<https://www.tandfonline.com/doi/full/10.1080/21645515.2021.1977057>. Accessed 10 April 2024.

This source has provided us with information about variola minor and variola major and their difference, as well as their symptoms. It also gave us information about Operation smallpox zero.