

NIH Data Management and Sharing Plans

CCTS Biostatistics and Research Advancement Cores

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For more information on this topic, including advice about how to apply it in your research, consider [scheduling a consultation with CCTS](#).

Overview

Most researchers seeking National Institutes of Health (NIH) funding must develop a Data Management and Sharing (DMS) plan to describe how they will handle and share scientific data. From the [NIH website](#):

Under the 2023 Data Management and Sharing (DMS) Policy, NIH expects researchers to maximize the appropriate sharing of scientific data, taking into account factors such as legal, ethical, or technical issues that may limit the extent of data sharing and preservation.

NIH requires all applicants planning to generate scientific data to prepare a DMS Plan that describes how the scientific data will be managed and shared. For more on what constitutes scientific data, see Research Covered Under the Data Management & Sharing Policy.

Resources

Comprehensive Guides

The [DMS section of the NIH website](#) explains the policy and provides more detail about the requirements and expectations of your plan.

The UIC library has put together a comprehensive guide to the NIH DMS policy. It includes links to resources, examples, tutorials, and more. [Access it on the UIC library website](#).

Additional Resources

Advanced Cyberinfrastructure for Education and Research, University of Illinois Chicago. *Data Storage Finder UIC*. Interactive tool to identify appropriate data repositories. There are some options for data that must be HIPAA-compliant. <https://datastoragefinder.acer.uic.edu/>.

California Digital Library, University of California (2024). *DMP Tool*. Accessed February 2024. This free, open-source wizard walks researchers through the process of creating a DMP. <https://dmptool.org/>.

National Institutes of Health. *Does the Genomic Data Sharing Policy Apply to My Research?*. Accessed February 2024. <https://sharing.nih.gov/genomic-data-sharing-policy/about-genomic-data-sharing/does-gds-apply-to-my-research>.

National Institutes of Health. *Budgeting for Data Management and Sharing*. Accessed February 2024. Guidance on requesting and justifying costs for DMS. <https://sharing.nih.gov/data-management-and-sharing-policy/planning-and-budgeting-for-data-management-and-sharing/budgeting-for-data-management-sharing#after>.

National Institutes of Health. *Data Management and Sharing Policy*. Accessed February 2024. NIH explanation of the policy and guidance on expectations. <https://sharing.nih.gov/data-management-and-sharing-policy>.

National Institutes of Health. *Generalist Repositories*. Accessed February 2024. Lists a few generalist repositories (not domain-specific). <https://sharing.nih.gov/data-management-and-sharing-policy/sharing-scientific-data/generalist-repositories>.

National Institutes of Health. *NIH-supported Scientific Data Repositories*. Accessed February 2024. <https://sharing.nih.gov/data-management-and-sharing-policy/sharing-scientific-data/repositories-for-sharing-scientific-data>.

National Institutes of Health. *NIH Institute and Center Data Sharing Policies*. Accessed February 2024. Webpage lists DMS policies for specific NIH institutes and centers. <https://sharing.nih.gov/other-sharing-policies/nih-institute-and-center-data-sharing-policies>.

NIH Office of Extramural Research (OER) (2023b). *Data Management and Sharing Plan vs. Resource Sharing Plan*. Accessed February 2024. <https://nexus.od.nih.gov/all/2023/03/20/data-management-and-sharing-plan-vs-resource-sharing-plan/>.

NIH Office of Extramural Research (OER) (2023a). *Genomic Data Sharing and Other Sharing Policies*. Accessed February 2024. Recorded webinar (39:03). <https://www.youtube.com/watch?v=on2F8Y-22Pc>.

NIH Office of Science Policy (OSP) and the Office of Extramural Research (OER) (2022b). *Diving Deeper into the New NIH Data Management and Sharing (DMS) Policy (video)*. Accessed February 2024. Recorded webinar (1:21:04). https://www.youtube.com/watch?v=dvneZFj_TcY.

NIH Office of Science Policy (OSP) and the Office of Extramural Research (OER) (2022a). *Understanding the New NIH Data Management and Sharing (DMS) Policy*. Accessed February 2024. Recorded webinar (1:27:37). <https://www.youtube.com/watch?v=CgUpwknj3g>.

Office of the Vice Chancellor for Research (OVCR), University of Illinois Chicago. *New NIH Data Management and Sharing Policy*. Document on Box.com (requires UIC login). Includes overview of the policy and links to UIC resources. <https://uofi.app.box.com/s/yjgnu2op2re9dck6v1qejuekk4cdsyr0>.

Office of the Vice Chancellor for Research (OVCR), University of Illinois Chicago. *NIH Data Management Plan Training or Consultation Request*. Google form to request training or consultation about the DMS policy from UIC's Office of the Vice Chancellor for Research (OVCR) Data Policy Advisor. <https://docs.google.com/forms/d/e/1FAIpQLScws0p-AypAdOp8bGb-BoFtVwh5NIss5VXZ0mjJLQZD-wCdHg/viewform>.

University Library, University of Illinois Chicago. *NIH Data Management and Sharing : Start Here*. Accessed February 2024. Includes resources, examples, and tutorials. <https://researchguides.uic.edu/NIHDMS>.

Academic Articles

Etz, Kathy, Heather Kimmel, and Amy Pienta (2023). "National Addiction and HIV Data Archive Program: Developing an Approach for Reuse of Sensitive and Confidential Data". In: *Journal of Privacy and Confidentiality* 13.2. ISSN: 2575-8527. DOI: 10.29012/jpc.853. <http://dx.doi.org/10.29012/jpc.853>.

Gonzales, Sara, Matthew B. Carson, and Kristi Holmes (2022). "Ten simple rules for maximizing the recommendations of the NIH data management and sharing plan". In: *PLOS Computational Biology* 18.8. Ed. by Scott Markel, p. e1010397. ISSN: 1553-7358. DOI: 10.1371/journal.pcbi.1010397. <http://dx.doi.org/10.1371/journal.pcbi.1010397>.

Jorgenson, Lyric A., Carrie D. Wolinetz, and Francis S. Collins (2021). “Incentivizing a New Culture of Data Stewardship: The NIH Policy for Data Management and Sharing”. In: *JAMA* 326.22, p. 2259. ISSN: 0098-7484. DOI: 10.1001/jama.2021.20489. <http://dx.doi.org/10.1001/jama.2021.20489>.

Martone, Maryann and Richard Nakamura (2022). “Changing the Culture on Data Management and Sharing: Getting Ready for the New NIH Data Sharing Policy”. In: *Harvard Data Science Review*. DOI: 10.1162/99608f92.6650ce2b. <http://dx.doi.org/10.1162/99608f92.6650ce2b>.

Rahaman, Tariq (2023). “Open Data and the 2023 NIH Data Management and Sharing Policy”. In: *Medical Reference Services Quarterly* 42.1, p. 71–78. ISSN: 1540-9597. DOI: 10.1080/02763869.2023.2168103. <http://dx.doi.org/10.1080/02763869.2023.2168103>.

Ross, Joseph S., Joanne Waldstreicher, and Harlan M. Krumholz (2023). “Data Sharing — A New Era for Research Funded by the U.S. Government”. In: *New England Journal of Medicine* 389.26, p. 2408–2410. ISSN: 1533-4406. DOI: 10.1056/nejmp2308792. <http://dx.doi.org/10.1056/NEJMp2308792>.

Watson, Hope, Jack Gallifant, Yuan Lai, et al. (2023). “Delivering on NIH data sharing requirements: avoiding Open Data in Appearance Only”. In: *BMJ Health & Care Informatics Online* 30.1, p. e100771. ISSN: 2632-1009. DOI: 10.1136/bmjhci-2023-100771. <http://dx.doi.org/10.1136/bmjhci-2023-100771>.