

AI Ready Mount Sinai (AIR·MS) Champions Handbook

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Introduction



AI Ready Mount Sinai (AIR·MS) was created to help researchers, clinicians, educators, and staff unlock the potential of AI and data-driven discovery. By bringing together diverse health and research data within a secure, scalable environment, AIR·MS enables the development of innovative solutions that advance research, education, and patient care.

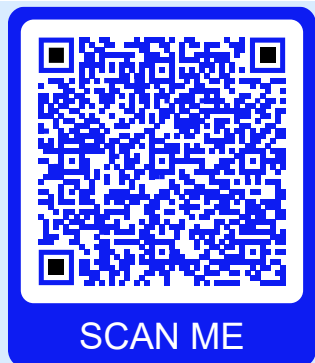
AIR·MS is a cornerstone of the Digital Health Partnership (<https://www.digitalhealthpartnership.com/>), a formal collaboration between the Icahn School of Medicine at Mount Sinai, the Hasso Plattner Institute for Digital Health at Mount Sinai, the Hasso Plattner Institute in Germany, and Data4Life, and the culmination of several years of fruitful collaboration. Established to accelerate biomedical innovation through data science and artificial intelligence, the partnership combines world-class expertise in medicine, engineering, and digital health to develop technologies that improve research, clinical care, and health outcomes worldwide. AIR·MS represents one of the partnership's flagship initiatives, providing a next-generation research ecosystem that makes health data more accessible, interoperable, and actionable for the Digital Health Partnership research community.

A key component of AIR·MS is the Data2Evidence cohort query tool, developed by Data4Life. Data2Evidence enables researchers to rapidly identify patient cohorts and explore research-ready data through an intuitive, self-service interface, reducing the time required to move from research questions to discovery. Together, AIR·MS, Data2Evidence, and other AI-based tools are helping to advance the Digital Health Partnership's vision of leveraging AI, digital health, and data science to accelerate biomedical research, foster collaboration, and improve human health.

Website

For more information and recent updates about the Champions Program please visit our website:

<https://labs.icaohn.mssm.edu/minervalab/air-ms-champions-program/>



About AIR·MS



What is AIR·MS?

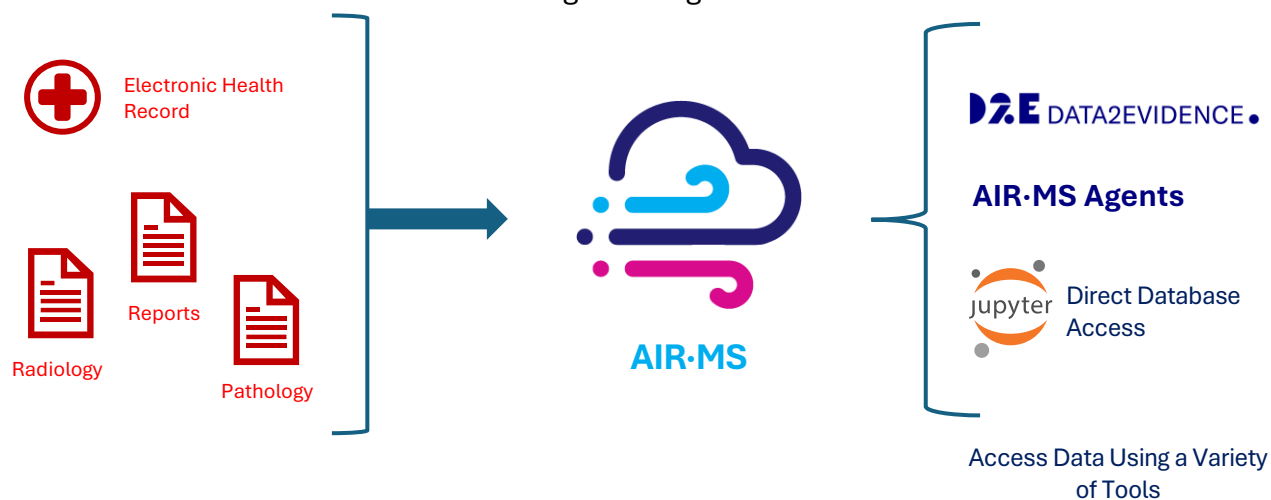
AIR·MS is a secure research platform designed to accelerate data-driven discovery across the Mount Sinai Health System. By integrating together clinical multimodal data, AIR·MS enables researchers to more easily access, explore, and analyze data using modern AI, machine learning, and data science tools.

The Technology

AIR·MS was developed through a collaboration between the Hasso Plattner Institute for Digital Health at Mount Sinai, the Hasso Plattner Institute in Germany, and Data4Life. Built on a hybrid cloud architecture, AIR·MS provides researchers and clinicians with secure access to multimodal health data while supporting scalable analytics, reproducible research, and AI-driven innovation.

Applications

AIR·MS supports a wide range of research and operational use cases, including cohort discovery, clinical and translational research, predictive modeling, machine learning development, outcomes research, and population health analyses. The platform is designed to serve both experienced data scientists and users who are new to working with large-scale health data.



Find out more here:

<https://labs.icahn.mssm.edu/minervalab/air-ms-artificial-intelligence-ready-mount-sinai/>



About AIR·MS

(Continued)



AIR·MS can be accessed in three ways:

1. AIR·MS Agent

For users looking to query de-identified clinical data through a conversational interface, users can interact with data using natural language, automate routine tasks, accelerate cohort discovery, and gain insights more efficiently. AIR·MS agents help lower technical barriers and enable a broader community of researchers to leverage the power of AI in their work.

2. Data2Evidence

Data2Evidence is a self-service cohort query tool that enables users to identify patient populations and explore available datasets through an intuitive graphical interface. Data2Evidence helps researchers rapidly assess study feasibility, define cohorts, and generate insights without requiring extensive programming expertise.

3. Direct Database Access

For users with an understanding of clinical data in the Observational Medical Outcomes Partnership (OMOP) data model and Structured Query Language (SQL) experience, AIR·MS provides direct access to curated research databases through tools such as SQL, Python and R. Direct access allows researchers to perform custom analyses, develop novel AI models, and integrate AIR·MS data into their existing research workflows.



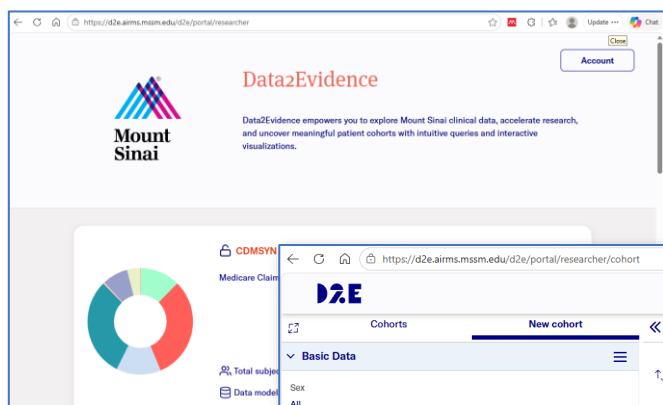
Data2Evidence



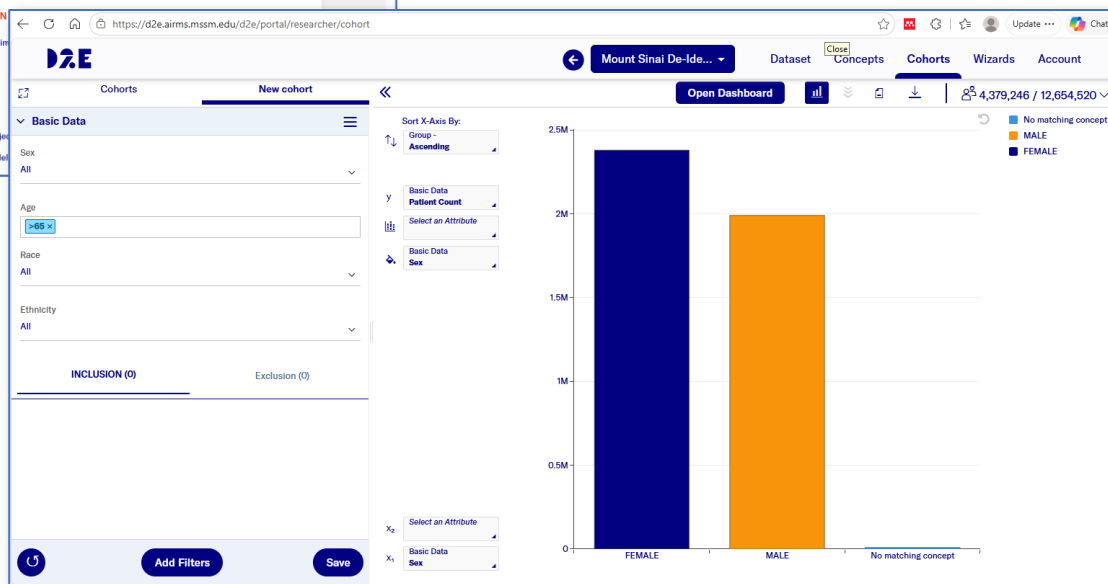
A frequent challenge in research is quickly exploring hypotheses, understanding the size of a problem, or trying to understand if there are a lot of patients facing similar issues. This would normally require writing computer code to access a database, query the patients, and compile the results, and can be a time-consuming process.

Data2Evidence, developed by Data4Life (<https://www.data4life.care/>) is a cohort query tool that makes this process much easier. Rather than having to write computer code, users can simply select options in a point-and-click interface and instantly get results. Additionally, since Data2Evidence is connected to AIR-MS, those queries are extremely fast. As a result, you can discuss changes with your colleagues or research team, and get results back in real-time, rather than having to wait several minutes to get results (as with previous cohort query tools, such as Leaf or ATLAS).

We are in the process of frequently updating Data2Evidence, so please check it regularly for new features!



D2E DATA2EVIDENCE.
<https://d2e.airms.mssm.edu>



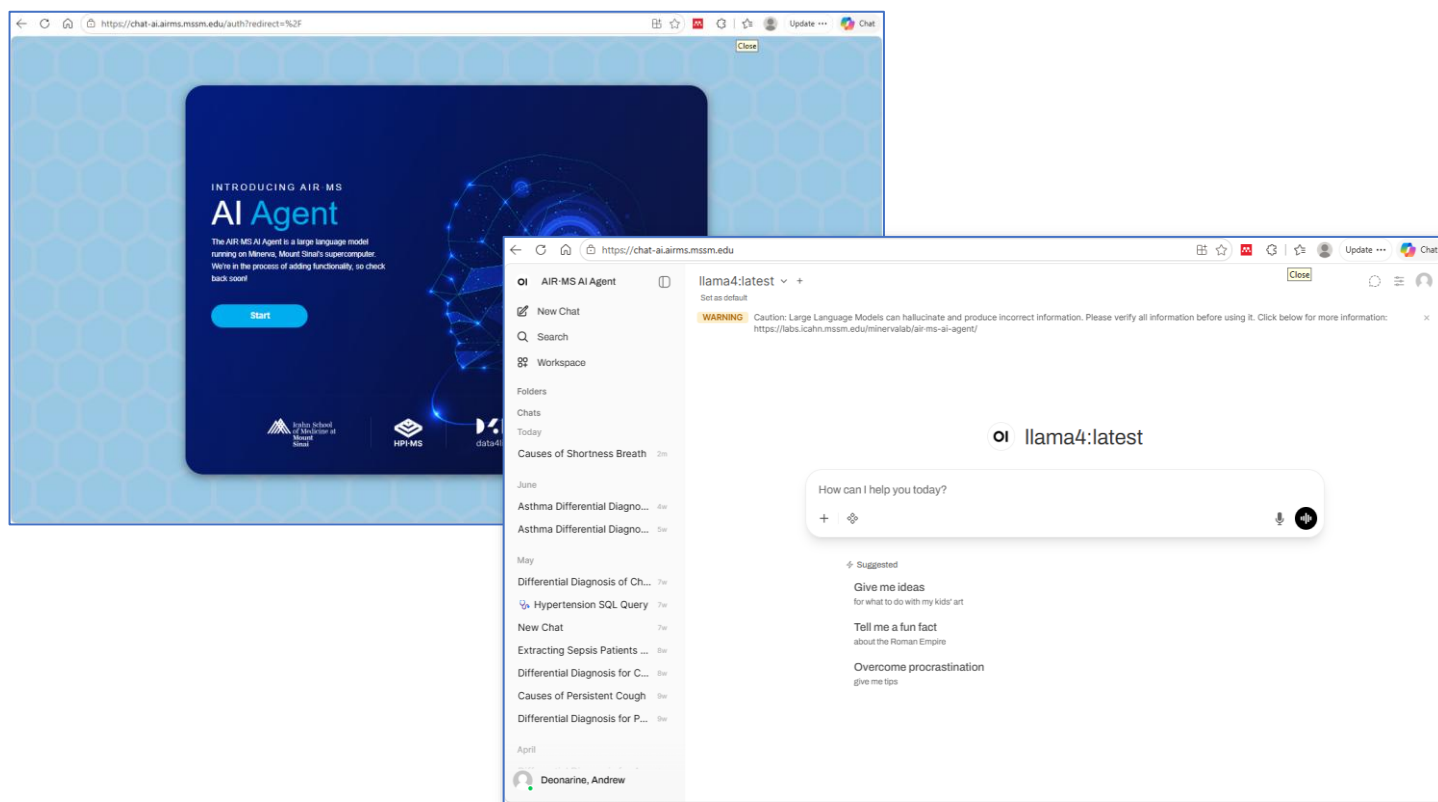
AIR·MS Agent



With the advent of large language models, tools such as ChatGPT, Gemini, and others are increasingly being used every day. The Scientific Computing and Data group at Mount Sinai recently launched our AIR·MS Agent, which allows users to access several common LLMs (such as Llama, Gemma, gpt-oss, and other models) which are running on the Minerva supercomputer. This allows users to test responses across different models quickly and easily.

The AIR·MS Agent is a unique tool in that it's hosted entirely on Mount Sinai infrastructure (and needs to be accessed on site, or through the Mount Sinai VPN). We are currently in the process of connecting the AIR·MS agent so it can query AIR·MS seamlessly, and without the need for writing code, or technical knowledge. Please check the AIR·MS Agent regularly for updates.

Note: if you would like to contribute to the development of the AIR·MS Agent (i.e. improving functionality, creating clinical scenarios, incorporating documentation, etc.) please do not hesitate to contact us!



AIR·MS Agent: <https://chat-ai.airms.mssm.edu/>



Your Responsibilities & Duties



We recognize that your time is valuable. As an AIR-MS Champion, your role is designed to make a meaningful impact while fitting alongside your existing responsibilities. Champions serve as advocates, educators, and trusted liaisons between their department or institute and the AIR-MS team by:

1. **Advocating for and communicating** your department's and/or institute's needs to the AIR-MS team.
2. **Becoming the department expert in the AIR-MS platform and/or concepts (including Data2Evidence, AIR-MS Agents, and other tools)** and serving as a resource for your department or institute by highlighting available capabilities, providing guidance, and assisting with making your department / institute AI-ready.
3. **Presenting, promoting, and highlighting AIR-MS-related innovations, events, and activities** to your department/institute in your research area.
4. **Providing feedback** on all aspects of AIR-MS, Data2Evidence, AIR-MS Agent (operations, documentation, user experience, roadmap, etc.) and software tools, including data quality.
5. **Highlighting any compliance, data quality, or safety issues.**
6. **Attending a champions advisory council meeting** twice a year and participating in AI and Human Health seminars.

One question potential champions might have is "do I need to be a technical expert?" You definitely do **not** need to be a technical wizard at using databases or computer programming. We're excited to engage with people of various skills levels, and please do not hesitate to reach out to us.

If you have questions related to these items, please contact Airms-champions@mssm.edu for more information.



Champion Benefits



As an AIR-MS Champion, you'll gain valuable skills, expand your AI knowledge, and help shape the future of research, education, and patient care at Mount Sinai, all while connecting with a growing community of AI leaders across the Digital Health Partnership (more information here: <https://www.digitalhealthpartnership.com/>).

1. **Gain valuable leadership experience** by serving as an AI advocate and resource within your department.
2. **Expand your knowledge of AI and AI-powered tools** available across Mount Sinai and the Digital Health Partnership, learning about new and emerging techniques to improve research and operations.
3. **Help accelerate research and enhance clinical practice** through the effective use of data and AI technologies.
4. **Contribute to improving data quality, consistency, and institutional standards.**
5. **Build connections** with colleagues across departments who are advancing AI initiatives throughout Mount Sinai and the Digital Health Partnership, by finding opportunities to collaborate.
6. **Play a direct role in shaping the future** of AI-enabled healthcare, research, and education at Mount Sinai, and across the Digital health Partnership, by helping to lead projects and initiatives with support.
7. **Develop skills and experience** that support professional growth in an increasingly AI-driven environment.
8. **Receive exclusive AIR-MS Champion merchandise, including a jacket and other recognition items!**



Champions & Change



As an **AI Ready Mount Sinai (AIR·MS) Champion**, you will play an important role in helping your department, institute, or program adopt AI-enabled research tools and data resources. Successfully implementing new technologies is about more than introducing new platforms: it requires helping people understand, embrace, and sustain change.

To support you in this role, we will engage with you throughout the year using the **ADKAR® Change Management Model**. ADKAR is a proven framework that supports successful organizational change by focusing on the needs of individuals throughout the adoption process. As a champion, you can use this model to better understand how your activities can accelerate AI adoption through change management on a day-to-day basis:

A

Awareness: Champions will help colleagues understand why AIR·MS is important. Identify key researchers, enthusiastic residents, and students who might use AIR·MS.

D

Desire: Champions will encourage faculty, trainees, and staff to participate by demonstrating how AIR·MS can help solve research challenges, improve efficiency, and create new opportunities. Highlight successful AIR·MS use by others and help network users.

K

Knowledge: Champions will share information about AIR·MS resources, training opportunities, documentation, and best practices so users know how to get started. Present at department meetings, academic half days, and rounds.

A

Ability: Champions will support colleagues as they begin using AIR·MS by connecting them with the right people, resources, and expertise to overcome barriers.

R

Reinforcement: Champions will help sustain adoption by gathering feedback, celebrating successes, sharing new capabilities, and communicating upcoming enhancements to the platform.



Resources & Support



Links

- **AIR·MS Website** - get started here with resources about data, how to write scripts, and more (<https://labs.icaahn.mssm.edu/minervalab/air-ms-artificial-intelligence-ready-mount-sinai/>)
- **AI & Human Health** – learn about AI research at Mount Sinai, our researchers, and our collaborations (<https://icaahn.mssm.edu/about/artificial-intelligence>)
- **Digital Health Partnership** – find out more about the Hasso Plattner Institute and Data4Life here (<https://www.digitalhealthpartnership.com/>)
- **Minerva Website** - find out more about AIR·MS and Minerva, Mount Sinai's supercomputer (<https://labs.icaahn.mssm.edu/minervalab>)
- **Data2Evidence** – use this easy-to-use cohort query tool to quickly answer questions about data (Access on site or using the VPN: <https://d2e.airms.mssm.edu/>)
- **AIR·MS Agent** – use our cutting edge LLM-based chatbot running on the Minerva supercomputer (soon to be connected to AIR·MS; Access on site or using the VPN: <https://chat-ai.airms.mssm.edu/>)
- **Getting Started Guide** - start here to get access to AIR·MS, get a Minerva account, and start writing scripts for your analyses (<https://labs.icaahn.mssm.edu/minervalab/air%E2%80%A7ms-getting-started/>)
- **Data Modalities** - find out about all the different data modalities stored in AIR·MS (<https://labs.icaahn.mssm.edu/minervalab/air%C2%B7ms-data-modalities/>)

Support

- **Submit a Ticket** - submit a ticket to get help with a technical problem, report a bug, or get support with research (<https://labs.icaahn.mssm.edu/minervalab/air%E2%80%A7ms-help-and-support/>)

Contact Us

- Contact **Edwin Thrower** (edwin.thrower@mssm.edu) or **Andrew Deonarine** (andrew.deonarine@mssm.edu) for more information
- **Airms-champion@mssm.edu**



Summary



The AIR·MS Champions Program empowers faculty, staff, and trainees to serve as local advocates for AIR·MS and AI adoption across Mount Sinai and throughout the Digital Health Partnership.

Champions help to:

1. **Promote awareness** of AIR·MS resources.
2. **Support colleagues** in identifying opportunities to use AI resources in research and clinical practice and connect users with training and support to increase **knowledge** and **ability**.
3. **Encourage best practices** for data quality and stewardship using AIR·MS and **reinforce** these practices.

Through this role, Champions gain leadership experience, expand their knowledge of AI technologies, while also playing an important role in building the AI capabilities in their departments and institutes. This virtuous cycle will contribute to accelerating the responsible adoption of AI throughout the institution.

Together, the AIR·MS team and the Champions will help drive innovation, improve outcomes, and strengthen the Digital Health Partnership's AI-ready future.





AIR-MS Champions Program

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