

Implementing ARCHIMEDES in your upcoming grant

Data management and Sharing Template Language

Below you will find templated language to assist you in preparing your grant application section on data management and sharing. ARCHIMEDES accepts both clinical and preclinical data. There are two pathways through which clinical data can be contributed to ARCHIMEDES: 1) the data is consented for sharing by participants; or 2) the data is deidentified; as well as an additional third pathway for pre-clinical data. We provide language for both pathways below and you should choose the one that best suits your project.

Language for Clinical data

Pathway 1: Template language for data that is consented for sharing in ARCHIMEDES

Data Management and Sharing

This study will leverage ARCHIMEDES¹ to support secure data management, preservation, and sharing. ARCHIMEDES is equipped to ingest multimodal health research data and can be leveraged for biostatistical analyses, predictive modelling, data visualization, and artificial intelligence.

The legal basis for sharing our data on ARCHIMEDES is through participant consent. To set ourselves up for success we will integrate the previously developed ARCHIMEDES consent language for prospective data sharing to ensure robust consent for our eventual downstream sharing and the onward use of the data². We will share our data at **<insert time (e.g., the time of publication)>** using the controlled access release tier of ARCHIMEDES. This release tier will make the data available to other researchers who meet the following conditions: **<insert conditions>**. Data access will be administered via ARCHIMEDES and through an approval process implemented by their Data Access Committee; please see the ARCHIMEDES Data Governance Framework³ for full details on the governance processes.

Use of ARCHIMEDES will help to ensure that the project data is compliant with FAIR data principles^{4,5} and in compliance with the Tri-Agency Research Data Management Policy's incoming mandate for data deposit⁶.

References

1. ARCHIMEDES – The Eureka moment for healthcare. Accessed May 11, 2026. <https://archimedesdata.ca/>
2. Data Sharing and Consent Templates. ARCHIMEDES – The Eureka moment for healthcare. Accessed May 11, 2026. <https://archimedesdata.ca/data-governanceethics/>
3. Data Governance & Ethics. ARCHIMEDES – The Eureka moment for healthcare. Accessed May 11, 2026. <https://archimedesdata.ca/data-governance-ethics/>
4. Wilkinson MD, Dumontier M, Aalbersberg IJJ, et al. The FAIR Guiding Principles for scientific data management and stewardship. *Sci Data*. 2016;3(1):160018. doi:10.1038/sdata.2016.18
5. FAIR Principles. GO FAIR. Accessed May 11, 2026. <https://www.go-fair.org/fairprinciples/>
6. Government of Canada I. Tri-Agency Research Data Management Policy. December 19, 2025. Accessed May 11, 2026. <https://science.gc.ca/site/science/en/interagencyresearch-funding/policies-and-guidelines/research-data-management/tri-agencyresearch-data-management-policy>

Pathway 2: Template language for data that is de-identified for sharing in ARCHIMEDES

Data Management and Sharing

This study will leverage ARCHIMEDES¹ to support secure data management, preservation, and sharing. ARCHIMEDES is equipped to ingest multimodal health research data and can be leveraged for biostatistical analyses, predictive modelling, data visualization, and artificial intelligence.

The legal basis for sharing our data on ARCHIMEDES is through de-identification of our data. Our study includes the following data modalities: <insert data modalities>. To deidentify our data prior to sharing we will leverage <Insert de-identification technique or tool (see table for examples)>.

Data modality	Suggested resource
Structured data (e.g., tabular datasets in structured formats such as CSV files, Excel spreadsheets, SQL databases, etc.)	<ul style="list-style-type: none"> ARX Anonymization Tool (GUI; Windows / Linux / Mac via Java) Amnesia (GUI; Windows / Linux only) sdcmicro (R coding package) Python / Pandas-based workflows (coding-based)
Unstructured data (e.g., free-text clinical/nursing notes, radiology reports, pathology reports, etc.)	<ul style="list-style-type: none"> PhysioNet deid (coding-based; Python) NLM-Scrubber (Windows/Linux; coding-based), Philter (coding-based; Python) PyDeID (coding-based; Python)
Imaging data (e.g., DICOM medical imaging such as MRI, CT, ultrasound, Xray, etc.)	<ul style="list-style-type: none"> PixelMed DicomCleaner (GUI; Windows/Linux/Mac via Java) Horos (GUI; Mac only) or RadiANT (GUI, Windows only) RSNA Clinical Trial Processor (CTP) (Windows/Linux/Mac via Java) pydicom (coding-based; Python)
Audio/video data (e.g., interview recordings, clinical videos, telehealth recordings, etc.)	<ul style="list-style-type: none"> Audacity (GUI; Windows / Linux / Mac) FFmpeg metadata stripping tools (coding-based) OpenCV-based facial blurring workflows (coding-based; Python)
Genomic/omics data (e.g., sequencing, variant call, SNP/genotype, or molecular datasets)	<ul style="list-style-type: none"> GA4GH Beacon (federated genomic data discovery/sharing framework)
	<ul style="list-style-type: none"> Crypt4GH (encrypted genomic file sharing; BAM/VCF/FASTQ support)

We will share our data at <insert time (e.g., the time of publication)> using the controlled access release tier of ARCHIMEDES. This release tier will make the data available to other researchers who meet the following conditions: <insert conditions>. Data access will be administered via ARCHIMEDES and through an approval process implemented by their Data Access Committee. Please see the ARCHIMEDES Data Governance Framework² for full details on the governance processes.

Use of ARCHIMEDES will help to ensure that the project data is compliant with FAIR data principles^{3,4} and in compliance with the Tri-Agency Research Data Management Policy's incoming mandate for data deposit⁵.

References

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2. Data Governance & Ethics. ARCHIMEDES – The Eureka moment for healthcare. Accessed May 11, 2026. <https://archimedesdata.ca/data-governance-ethics/>
3. Wilkinson MD, Dumontier M, Aalbersberg IJ, et al. The FAIR Guiding Principles for scientific data management and stewardship. *Sci Data*. 2016;3(1):160018. doi:10.1038/sdata.2016.18
4. FAIR Principles. GO FAIR. Accessed May 11, 2026. <https://www.go-fair.org/fairprinciples/>
5. Government of Canada I. Tri-Agency Research Data Management Policy. December 19, 2025. Accessed May 11, 2026. <https://science.gc.ca/site/science/en/interagency-research-funding/policies-andguidelines/research-data-management/tri-agency-research-data-managementpolicy>

Language for pre-clinical data

Pathway 3: Template language for pre-clinical data sharing in ARCHIMEDES

Data Management and Sharing

This study will leverage ARCHIMEDES¹ to support secure data management, preservation, and sharing. ARCHIMEDES is equipped to ingest multimodal health research data and can be leveraged for biostatistical analyses, predictive modelling, data visualization, and artificial intelligence.

We will share our data at *<insert time (e.g., the time of publication)>* using the *<insert either “open access” or “controlled access”>* release tier of ARCHIMEDES. This release tier will make the data available...

- **If open access, insert the following:** ○ ... on a public website that anyone can access; ...
- **If controlled access, insert the following:**
 - ... to other researchers who meet the following conditions: *<insert conditions – release tier dependent>*. Data access will be administered via ARCHIMEDES and through an approval process implemented by their Data Access Committee; ...

... please see the ARCHIMEDES Data Governance Framework² for full details on the governance processes.

Use of ARCHIMEDES will help to ensure that the project data is compliant with FAIR data principles^{3,4} and in compliance with the Tri-Agency Research Data Management Policy’s incoming mandate for data deposit⁵.

References

1. ARCHIMEDES – The Eureka moment for healthcare. Accessed May 11, 2026. <https://archimedesdata.ca/>
2. Data Governance & Ethics. ARCHIMEDES – The Eureka moment for healthcare. Accessed May 11, 2026. <https://archimedesdata.ca/data-governance-ethics/>
3. Wilkinson MD, Dumontier M, Aalbersberg IJ, et al. The FAIR Guiding Principles for scientific data management and stewardship. *Sci Data*. 2016;3(1):160018. doi:10.1038/sdata.2016.18
4. FAIR Principles. GO FAIR. Accessed May 11, 2026. <https://www.go-fair.org/fairprinciples/>

5. Government of Canada I. Tri-Agency Research Data Management Policy. December 19, 2025. Accessed May 11, 2026.
<https://science.gc.ca/site/science/en/interagency-research-funding/policies-andguidelines/research-data-management/tri-agency-research-data-managementpolicy>