

Submitting a SART Research Proposal: Set Yourself Up for Success

Learning Objectives



- What is SART CORS?
- What kind of research can I do?
- How do I submit a research proposal?

What is SART CORS?



- SART Clinic Outcome Reporting System
- SART members are encouraged to use the national SART CORS database to ask powerful retrospective research questions

Your Research Question



- You may have a question or hypothesis you'd like to test using SART CORS data
- Collaboration is strongly encouraged in order to utilize available resources for statisticians, IRB approval/exemption, experience working with SART CORS datasets
- Network and connect with SART CORS researchers

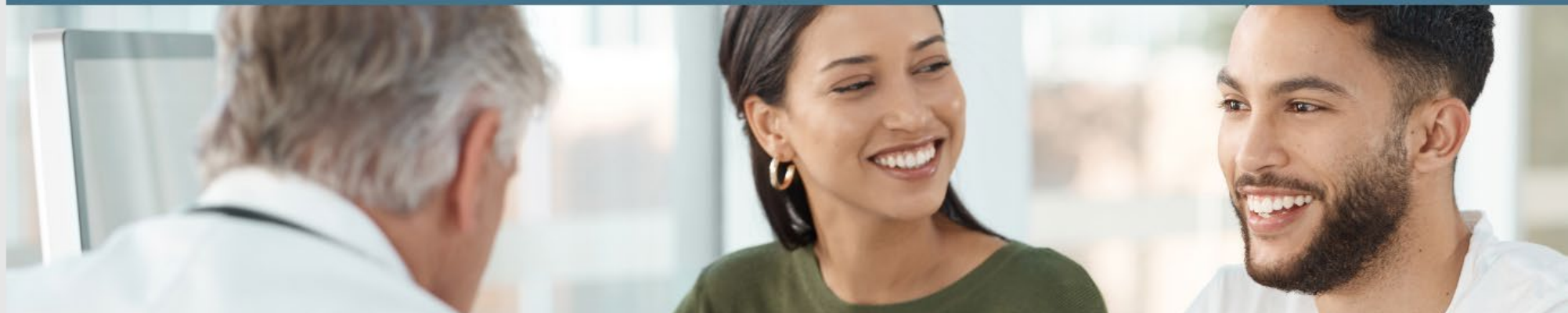
Publications From SART CORS



- For a current list of publications, go to the members only section of www.sart.org
- Over 200 publications have resulted from datasets generated from SART CORS

A few highlights:

- Powerful linkage studies between SART and state birth registries
- Prediction models



[SART Home](#) > [Research](#) > [Publications Using SART CORS](#)

Publications Using SART CORS

Publications are listed in chronological order with most recent first.

- 1) Walsh TJ, Raheem O, Chen T, Alukal J, Nangia A, Luke B. Impact of male factors on pregnancy outcomes with assisted reproductive technologies. In preparation.
- 2) Bocca S, Mahesan A, Luke B, Brown MB, Wantman E, Oehninger S. Risk of congenital malformations in ICSI with surgically obtained sperm: A US study in four States. In preparation.
- 3) Luke B, Brown MB, Wantman E, Meyer RE, Foresteri N, Watkins S, Yazdy M, Browne M, Fisher S, Canfield MA, Ethen M, Nichols HB, Oehninger S, Doody K. Risk of blastogenesis birth defects in IVF, non-IVF ART, and fertile births. In preparation.
- 4) Park H, Sundaram R, Bell EM, Bell G, Ghassabian A, Lawrence DA, Luke B, Yeung E. Newborn biomarkers on infectious and respiratory diseases during early childhood. In preparation.



FAQs

Have questions about IVF and infertility? We have answers.

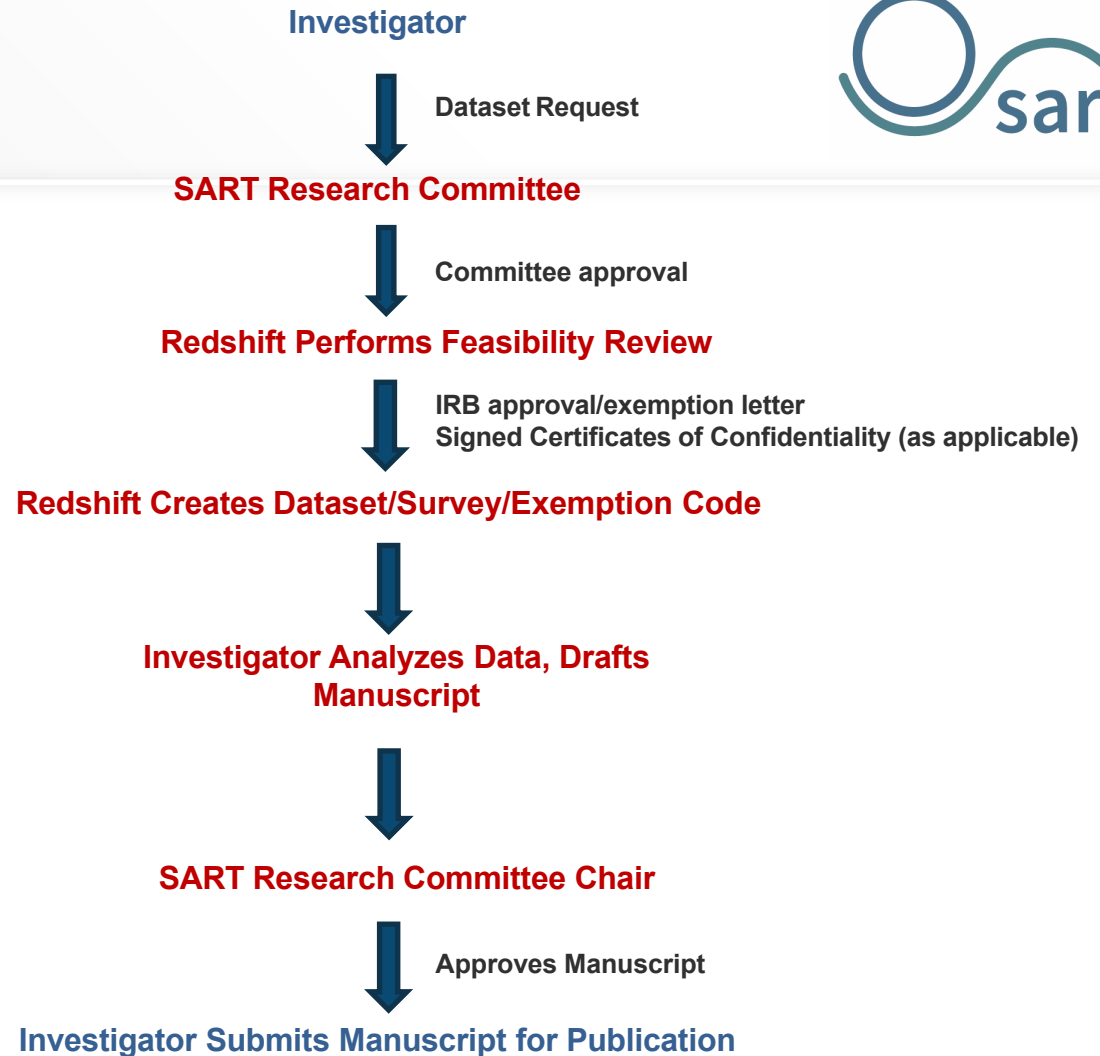


The SART Research Portal



- ***The SART Research Portal is available to SART members who are interested in:***
 - Requesting a dataset from SART CORS for research
 - Submitting a survey to SART members for research
 - Requesting an exemption from reporting IVF cycles to SART CORS

How do I submit a research proposal?



The Portal is Seasonal



- New Requests: November-February
- Committee Review: February-April
- Redshift Review: April-May
- Dataset Release: estimated June-December

How many proposals are approved annually?



- SART will fund the programming of up to 20 datasets per year
- Surveys separate
 - Surveys about IVF practice patterns (IVF clinics) are appropriate for SART
 - Surveys about individual practice patterns (REIs) should be submitted to SREI

Proposals May Also be Submitted Outside the Annual Window



- Investigators must be able to fund the creation of the dataset
- Approximately \$2,000 per dataset (exact amount to be determined by Redshift)
- Estimated timeline for proposal review and dataset generation: 3-6 months

Contact Support

Sign in to SART CORS

Username

drjleaton

Password

••••••••

Clinic


Women and Infants Fertility Center (0695)

Forgot Password


Login




TREATMENT DATA AND ANALYSIS



Patients



Cycles




Reports / QA


CLINIC AND USER PROFILES



My Clinic




My Account




User List


PORTALS




Research




Validation



Advertising



Quality Assurance



Billing

Research Portal

Research Introduction Documentation Overdue settings

+ Create New Research Application or Survey Request for Research Cycle Exemption Code Data Dictionary Subcommittees

Application ID

SART #

Title

P.I.

New Messages

Application Type

Creation Date

Affiliated

Application Status

- New
- Assigned to Research Chair
- Assigned to Research Committee for Review
- Feasibility Review
- Open: Assigned to Applicant
- Document Review: Assigned to Research Admin
- Approved for Release
- Released
- Rejected

Apply Filter Reset Filter More Filters Hide All Filters

Application ID	Status	SART #	Clinic	Creation Date	Application Type	Principal Investigator	Title	Objective
4	Released	0341	Massachusetts General Hospital Fertility Center	9/29/2014	Research	Aaron Styer	Implementation of Elective Single Embryo Transfer and the Impact on Term Singleton Live Birth in the United States 2004-2012	The hypotheses of this study include: 1. The rate of eSET utilization has increased in the U.S from 2004-2012. 2. During 2004-2012, an increase in eSET rates resulted in an increase in the rate of term singleton live births and a reduction of twin gestation live births (preterm and term). The primary objectives of this proposal include: 1.To quantify the trend of eSET and rate of singleton live births in the U.S. from 2004 through 2012. 2. To compare the live birth outcomes for patients undergoing eSET or 2ET in selected patient groups in which eSET would be performed (i.e. < 35 yo, 35-37 yo) from 2004-2012 [i.e. singleton live birth conceived with eSET versus 2ET and all singleton live births compared to all multiple gestation live births]. The secondary objective is: To determine if any specific factors are associated with the rate of eSET in 2004-2012
10	Open: Assigned to Applicant	0363	NYU Langone Fertility Center	10/27/2014	Research	David McCulloh	Body Mass Index of IVF Patients	We plan to compare the distribution of body mass indices (BMIs) from our patients (in an already submitted manuscript) to the distribution of BMIs in the general United States' pool of IVF patients.
12	Released	0160	UF Health Reproductive Medicine at Springhill	12/4/2014	Research	R. Stan Williams	Determining the Source of High Order Multiple Pregnancies	We will determine the number of high order multiple pregnancies generated from IVF cycle to those generated from COH and natural cycles

Research Portal

← Back to List

Important Information

- Please check to see if an existing application that asked your question has already been submitted and either approved or rejected in the portal – your clinic’s applications, and other clinic’s approved and rejected applications, can be viewed; just clear all filters on the Research Portal Home Page, and click Apply Filter.
- If you are planning to re-use an existing dataset to ask a new / different question, you must create a new application and reference the existing application for which data was released.
- The schedule for SART funded application reviews is typically late November through early February, with data released between the following June and December. Self-funded applications can be submitted at any time. You may request your application to be considered as self-funded by sending a message to the Research Chair in the Communication Tab.

Create New Research Application

Type

Title

200/200 remaining

Years of Data Requested

Start

End

Create Application



General Information

Details

Security

Field Selection

Communication

Documentation

You can review the request's status, enter the participants on this request, and the PI information. Each time you change tabs, the system will automatically save. Once you have filled out all fields (on all tabs), click "Save and Submit to SART".

RESEARCHERS, AUTHORS & DOCUMENTATION


Application-Exempt Data Request


Affiliation


Principal Investigator

Jennifer Eaton

Sart Collaborator

 Add Other Investigator / Co-Author

 Make same as PI

 Add Other Investigator / Co-Author

PRINCIPAL INVESTIGATOR CONTACT INFORMATION

Address

Phone

Address 2

Fax

City

Email

jleaton@wihri.org

State

Zip Code



General Information **Details** Security Field Selection Communication Documentation

You can review the request's status, enter the participants on this request, and the PI information. Each time you change tabs, the system will automatically save. Once you have filled out all fields (on all tabs), click "Save and Submit to SART".

Objective: Please state the hypothesis to be tested or the objective(s) of your project.

Rationale: Please provide one to two paragraphs of background.

Planned methods of data analysis (one to two paragraphs).

References

Funding

[General Information](#)[Details](#)[Security](#)[Field Selection](#)[Communication](#)[Documentation](#)

You can review the request's status, enter the participants on this request, and the PI information. Each time you change tabs, the system will automatically save. Once you have filled out all fields (on all tabs), click "Save and Submit to SART".

Where will the data be stored?**How will the data be protected?****Who will have access to the full dataset?** Jennifer Eaton**Who will be reviewing summary tables only (and not be working with the dataset directly)?** Jennifer Eaton No One

What data should I request?



- First consult the list of fields that are collected to determine if the database would be able to answer your research question.
 - Click the *'Help/FAQ'* link at the top of any screen.
Click the "Data Dictionary" button in the Research Portal
- A single year can contain information for over 200,000 cycles with many available fields for each of the cycles. Please request only fields that are justified by your project.

You can review the request's status, enter the participants on this request, and the PI information. Each time you change tabs, the system will automatically save. Once you have filled out all fields (on all tabs), click "Save and Submit to SART".

IMPORTANT INSTRUCTIONS

Please make sure to include all fields and data against which you plan to compare. This form is designed to ensure you do not receive a dataset with unscoped results, but only the data that you need. Selections and filters made must be inclusive of ALL treatments that would need to be part of your analysis and NONE of those that are unrelated.

General Guidance

- Check all fields you are requesting.
- Please only request what can be justified by your objective, while requesting the data you need to avoid the need for a supplementary dataset to be generated.
- Some fields are selected by default and must be a part of every dataset.

Field Selection Guide and Definitions

- Hover over any of the information symbols in the Fields Requested for more information about specific sections.
- **Applying A Filter:** Limit the data you are requesting by setting filters on requested fields. Only cycles that meet the filter criteria will be included in the dataset.
 - **Include/Exclude Filter:** This filter is section specific. Cycles will be included in the dataset if they match ANY ONE of the Include values and NONE of the Exclude values per section. Sections begin with each large blue header (Clinic Information, General Information, etc.).
 - **= (Equal to):** Cycles will be included in the dataset if they match the specified value exactly.
 - For example, if you would like to ONLY include cycles where 1 oocyte was retrieved, you would set the filter on the NumberRetrieved Field Selection = 1.
 - **!= (Not equal to):** Select this filter option if there is a specific value you would like excluded from the dataset.
 - For example, if you would like to exclude cycles where 0 embryos were suitable for transfer, you would set the filter on the NumSuitableFortransfer Field Selection != 0.
 - If you find you cannot filter by the field you want please fill out a special request in the 'Special Requests' section below.
- If you have additional questions about filters, please reach out to the Research Chair or Data Provider in the Communication tab of this research application.

DATA LINKAGE

Check the box below to include reference IDs to linked retrievals on thaw type cycle records. This provides cycles with the same constraints set in this application to those source cycles for thaw type cycles, but allows analysis when multiple freezes from multiple retrievals are involved with a given thaw. The complexity of the output and analysis will therefore increase as grouping multiple cycles into categorizations may be difficult.

Notes on linked data availability

- Linkage data is available starting with Reporting Year 2014
- Only Autologous Cycles where no donor eggs were used are linked

Include Links to Source Retrieval Cycles for Thaw Cycles

Include Links to Subsequent Thaw Cycles for Retrieval Cycles

Select Fields Check all fields you are requesting.	QUICK JUMP TO SECTION ▼	Apply Filter (Yes / No)	Filter Details Limit the data you are requesting by setting filters on requested fields.
--	--	-----------------------------------	--

▲ <input type="checkbox"/> CLINIC INFORMATION	APPLY FILTER?	FILTER DETAILS
i <input type="checkbox"/> ClinicState (Restricted)	Select field to filter	-
i <input type="checkbox"/> Clinic Region USA	i Cannot filter on field	-

▲ <input type="checkbox"/> GENERAL INFORMATION	APPLY FILTER?	FILTER DETAILS
i <input checked="" type="checkbox"/> ReportingYear	Yes ▼	Between (incl.) ▼ <input style="width: 80px;" type="text" value="2004"/> To <input style="width: 80px;" type="text" value="2021"/>
i <input type="checkbox"/> CycleOrder	i Cannot filter on field	-
i <input checked="" type="checkbox"/> ExternalCycleId	i Cannot filter on field	-
i <input checked="" type="checkbox"/> ExternalPatientID	i Cannot filter on field	-

▲ <input type="checkbox"/> PATIENT INFORMATION	APPLY FILTER?	FILTER DETAILS
i <input type="checkbox"/> Patient Sex	Select field to filter	-
i <input type="checkbox"/> PatientAgeAtStart	Select field to filter	-

▲ <input type="checkbox"/> PARTNER INFORMATION	APPLY FILTER?	FILTER DETAILS
i <input type="checkbox"/> PartnerIdentityKnown	Select field to filter	-
i <input type="checkbox"/> PartnerAgeAtStart	Select field to filter	-

▲ <input type="checkbox"/> PATIENT RESIDENCY	APPLY FILTER?	FILTER DETAILS
i <input type="checkbox"/> PatientState	Select field to filter	-
i <input type="checkbox"/> Patient Region USA	i Cannot filter on field	-
i <input type="checkbox"/> PatientCountry	Select field to filter	-
i <input type="checkbox"/> PatientUSResident	Select field to filter	-

Send Any Questions to the Research Chair Through the Communications Tab



General Information Details Security Field Selection **Communication** Documentation

NEW MESSAGE

To Research Chair

Message

MESSAGES [+ EXPAND ALL MESSAGES](#) [- COLLAPSE ALL MESSAGES](#)


No Messages

Submit Your Proposal




General Information Details Security Field Selection Communication **Documentation**

You can review the request's status, enter the participants on this request, and the PI information. Each time you change tabs, the system will automatically save. Once you have filled out all fields (on all tabs), you can submit your request to SART.

 Forms not required for application submission but will be required for dataset release.

IRB

IRB approval letter

 Upload file

IRB Date



UPLOAD A CERTIFICATE OF CONFIDENTIALITY FOR EACH OF THE FOLLOWING INVESTIGATORS/AUTHORS

Principal Investigator

Jennifer Eaton

[Confidentiality Pledge](#)

Sart Collaborator

Please link this author to a SART user on the [General Information] tab.

Other Investigators / Co-Authors

None

MISCELLANEOUS FILES

Add File

Save & Submit to SART

Save & Submit Later

Save & Return to List page

Cancel & Return to List page

Delete

Important Points



- Your proposal is not submitted until you click the “Save and Submit to SART” button
- The PI must be a SART member and cannot be a trainee
- All coinvestigators must be named in the proposal
 - Coinvestigators from different programs can be included as long as they have an *External Unique Research Identifier*

Adding a Coinvestigator



Add Collaborator to Research Application

Each person involved with a research request must be a SART CORS Research User at a SART clinic. Please contact the person you wish to add, and ask them to:

1. Login to SART CORS
2. Click the "My Account" button
3. Provide you with the External Unique Research Identifier at the bottom of the page (we recommend you request the user copy and paste this in an email to you). If they do not see this key, they have not been given sufficient privileges at their clinic.

Once you receive it, you can enter these details to provide the user access to this research request. The user will be able to edit the application and view communications about the request, but not submit the application or send communications.

Users can make a Research Only collaborator for students or other collaborators who need access to the Research Portal but not to SART patient or cycle data.

Warning: you are adding a collaborator. Once you click OK, all changes on this page will be saved along with the addition of the collaborator.

External Unique Research Identifier:

Collaborator Email:

OK

Cancel

Go to Each User's SART CORS Profile to Find the External Unique Research Identifier



Security Information

User is approved to log in (active)

User Role: Not Entered ▾

Action	Patient Info	Donor Demographics	Cycle Info	Unlock Cycle	Clinic Info	User's Own Account	Other User Accounts	Research Applicant
Write	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Read	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Normal User (Editor) Read Only User Administrator (All Rights) Research Applicant Only No Rights

Use these buttons to set all of the details above to standard settings.

Rights	Key Member Portal	Billing Portal	Quality Assurance Portal	Advertising Portal	Validation Portal	Membership Portal
Portal Access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Research Applications

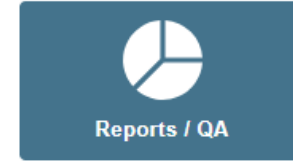
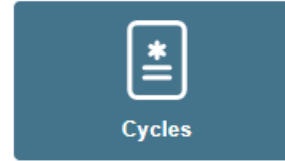
External Unique Research Identifier: 2f824be9-1a62-4a36-bd35-b969de0d26e1

How to Create a User Profile for Investigators Who Don't Currently Have SART CORS Access

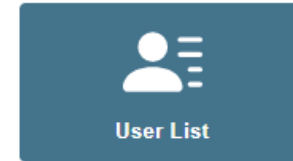
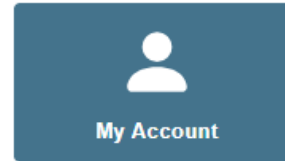


HOME PATIENTS CYCLES REPORTS / QA MY CLINIC MY ACCOUNT **USER LIST** RESEARCH

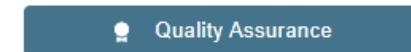
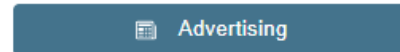
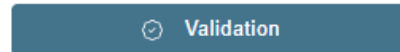
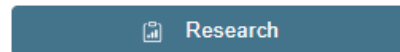
TREATMENT DATA AND ANALYSIS



CLINIC AND USER PROFILES



PORTALS



How to Create a User Profile for Investigators Who Don't Currently Have SART CORS Access



User List

Filter Users

System User Id

Last Name

Username

Apply Filter

Clear Filter

Create New User

User Information

Username

Password Confirm password

Last Name First Name Middle Initial

Email Phone Fax

Title Suffix/Degree Profile Display Order ⓘ

User Bio ⓘ

Profile Image

No image file uploaded

Please select a jpg, png, or gif file, then click Save at the bottom to complete the image upload. Portrait aspect ratio (3:2) is recommended for optimal display on the sart.org clinic profile.

Select File Choose File Clear

Security Information

User is approved to log in (active)

User Role Not Entered ▾

Action	Patient Info	Donor Demographics	Cycle Info	Unlock Cycle	Clinic Info	User's Own Account	Other User Accounts	Research Applicant
Write	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Read	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Normal User (Editor) Read Only User Administrator (All Rights) Research Applicant Only No Rights

After You Submit Your Proposal



- Your request gets a Research Protocol Number and it will be in your portal dashboard. The status indicators at the top of your request will help you understand where your request is in the pipeline.

Status
i status change date

New 8/17/2023	Assigned to Research Chair 8/17/2023	Assigned to Research Committee for Review 8/24/2023	Feasibility Review -	Open: Assigned to Applicant -	Document Review: Assigned to Research Admin -	Approved for Release -
Released -	Rejected -					

Review of Your Proposal



- The SART Research Committee will review the proposal and provide comments back to you. In consultation with Redshift, the Research Committee will determine if the requested data can be released. Proposals may be sent back to the investigators for revisions.
- All communication with the investigators is done through the COMMUNICATION tab in the portal.

Review Process



- The committee reviews each proposal
- It is a highly structured process with a scoring tool of objective criteria that will be scored by reviewers
- The scoring process is based on the ASRM abstract scoring system

Originality of Hypothesis

0 = None

3 = many other well-designed studies

5 = a modest number of other similar studies

7 = few similar studies

10 = unique

Plan of Data Analysis

0 = inadequate analysis, hypothesis not supported by plan of analysis

5 = deficient analysis, hypothesis partially related to plan of analysis

7 = appropriate analysis, SART CORS data requested appropriate for addressing hypothesis, hypothesis supported by plan of analysis, biostatistician listed

10 = appropriate analysis, SART CORS data requested appropriate for addressing hypothesis, hypothesis supported by plan of analysis, biostatistician listed, shell tables included

Significance

0 = little if any significance, does not advance the field

5 = modest contribution to the field; advance the field modestly

10 = important contribution to the field

Study Design

0-3 = retrospective, moderately novel question, low impact

4-6 = retrospective, novel question, impactful

7-8 = simulated RCT, machine learning, prediction models, appropriate statistical modeling, impactful

9-10 = linkage study, appropriate statistical modeling, impactful

Tips for Enhancing Your Proposal



- Check the portal for other similar proposals to avoid overlap
 - Clear all filters and browse through prior proposals

Research Portal

[Research Introduction Documentation](#) [Overdue settings](#)

[+ Create New Research Application or Survey](#) [Request for Research Cycle Exemption Code](#) [Data Dictionary](#) [Subcommittees](#)

Application ID

SART #

Title

P.I.

New Messages

Application Type

Creation Date

Affiliated

Application Status

New

Assigned to Research Chair

Assigned to Research Committee for Review

Feasibility Review

Open: Assigned to Applicant

Document Review: Assigned to Research Admin

Approved for Release

Released

Rejected

Tips for Enhancing Your Proposal




- Use the SART Query Engine on your own clinic data, to test usage & understanding of SART CORS
- Consult SART Data Dictionary for definitions of fields, to ensure you ask for exactly what you want. Located on Research Portal Dashboard Home Page
- Create shell tables as part of proposal and upload them under the documentation tab
- Include a biostatistician as a co-investigator (mandatory)

Upload Your Table Shells




General Information Details Security Field Selection Communication Documentation

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Sart Collaborator

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Other Investigators / Co-Authors

None

MISCELLANEOUS FILES

 Add File

Save & Submit to SART

Save & Submit Later

Save & Return to List page

Cancel & Return to List page

Delete

A Statistician is Mandatory



- SART requires researchers to work closely with a statistician to correctly handle missing data (which is frequent and by design for some fields) and to choose appropriate methods for manipulating the data (importing from CSV, exploring and categorizing, modeling and analyzing, and designing tables)



SART Research Committee Award for Statistical Support



- The committee will select one outstanding proposal for up to \$15,000 statistical support during the 2024 annual cycle.
- The goal of the award is to support new investigators.
- The winning team of investigators must include a statistician who does not have experience with SART CORS data.
- The team will be paired with a statistician with SART CORS experience; the assigned statistician will provide feedback on study design and train the investigator's statistician to work with SART CORS data.
- The funds may only be used to compensate the assigned SART statistician. Any unused funds must be forfeited.

Supporting Documentation



- ***Before the dataset can be released, the following must be uploaded into the portal under the DOCUMENTATION tab:***
 - A letter from your IRB documenting that the project has been reviewed and approved or exempted. You must also manually enter the IRB approval/exemption date.
 - Signed Certificates of Confidentiality for each person involved with the project. The Certificate of Confidentiality is available as a link under the DOCUMENTATION tab.

Getting Your Dataset



- Once the proposal is approved by the committee and the documentation of IRB approval/exemption and Certificates of Confidentiality are received, the project will be listed on the queue for obtaining a dataset.
- Data will be provided as a downloadable, compressed CSV file under the DATA AND PUBLICATIONS tab within the research portal. The file is a series of columns with each cycle listed as a row and the requested fields listed as columns.
- Protected Health Information (PHI) such as names and dates cannot be released to any individuals outside of SART. Researchers may only receive deidentified data. SART also cannot release data from cycles which took place prior to 2004.

Additional Analyses Require Committee Approval



- Approval for a dataset is specific to the proposal that was submitted.
- Requests to perform additional analyses with an existing dataset must be sent using a new Research Application, referencing the existing application and indicating that an existing dataset will be used. It is not necessary to repeat the field selection.
- The committee will review the revised proposal and check for overlap with existing proposals and previously published SART CORS manuscripts.

Publishing Your Data



- Before you submit your manuscript for peer review, email it to the Research Committee Chair for approval. Only manuscripts that present serious issues and are not appropriately reporting their findings will be sent to the Research Review committee.

Required Language: Materials and Methods



The following language must be included in your materials and methods:

The data used for this study were obtained from the SART Clinic Outcome Reporting System (SART CORS). Data were collected through voluntary submission, verified by SART, and reported to the Centers for Disease Control and Prevention (CDC) in compliance with the Fertility Clinic Success Rate and Certification Act of 1992 (Public Law 102-493). SART maintains HIPAA-compliant business associate agreements with reporting clinics. In 2004, following a contract change with the CDC, SART gained access to the SART CORS data system for the purposes of conducting research. Over 90% of all assisted reproductive technology (ART) cycles in the United States are performed at SART-member clinics.

SART annually selects up to 10 clinics, approximately 2.5% of SART clinics, for an on-site validation visit utilizing metrics and a blinded selection process to identify outlier clinics. Medical records are reviewed during the validation visit to verify the designation, outcome, and reporting of cycles. Clinics with significant systematic reporting errors undergo data correction. Six primary metrics and twenty-six secondary metrics are used for clinic selection. The metrics include low prospective reporting for both egg retrieval cycles and total cycles, high live birth rates in the various age groups, low cancellation rate, high percentage of total fertility preservation cycles, high percentage of embryo banking and oocyte banking cycles, high percentage of fertility preservation cycles where oocytes were thawed or embryos were transferred within a year, high percentage of deleted cycles, high percentage of cycles converted from IUI, and low percentage of cycles in which no embryos were suitable for transfer with and without preimplantation genetic testing (PGT). SART does not validate the accuracy of data entry fields such as gonadotropin dosage, number of oocytes retrieved, number of fertilized oocytes, number of embryos cryopreserved, PGT results, or demographic fields such as age and diagnosis.

Required Acknowledgments



The following acknowledgments must be included:

The authors thank SART for the dataset, as well as all SART members for providing clinical information to the SART CORS database for use by researchers. Without the efforts of SART members, this research would not have been possible.

Questions?



Suneeta Senapati, MD, MSCE

Chair, SART Research Committee

Associate Professor of Obstetrics and Gynecology

University of Pennsylvania Perelman School of Medicine, Philadelphia, PA

Suneeta.Senapati@pennmedicine.upenn.edu