

# Department of Medicine Biostatistical Shared Resource

Through this pilot program, the University of Rochester Department of Medicine is committed to providing biostatistical support to mentored trainees and faculty performing excellent science who do not have current funding available to cover those activities. Trainees need to include their mentor's name in the request.

**The program will start on July 1, 2022.** The program supervision is provided by Dr. Robert Strawderman, and statistical analysis will be supported by masters-level biostatisticians, Myla Strawderman, MS (clinical research); Lu Wang, MS (basic science); and Samia Lopa, PhD (Clinical and Translational Research). Access to the Shared Resource biostatistical support is through a REDCap tool.

Areas of support: 1. Study preparation and pre-study planning. 2. Sample size, power calculations, and analytic plans, 3. Basic statistics, including bivariate analyses (chi-square, t-tests, and ANOVA), multivariate regression (linear and logistic), non-parametric tests, correlations, and basic survival analyses (log-rank tests, Kaplan Meier curves, and Cox regression), 4. Database management.

Priority will go to: 1. major scientific conference deadlines, 2. extramural peer-reviewed grant deadlines, 3. intramural peer-reviewed grant deadlines, 4. manuscript revisions, 5. manuscripts in preparation, 6. Other. In order to protect the biostatisticians' time during busy periods, we recommend submitting your request 3-6 weeks prior, however depending on demand or nature of the project we realize that this may not be feasible and so if time is an issue this will be addressed at the time of the consultation. Please plan ahead for NIH standard deadlines and remember ORPA's 5 business days lead time.

## [Request Biostats Support Here](#)

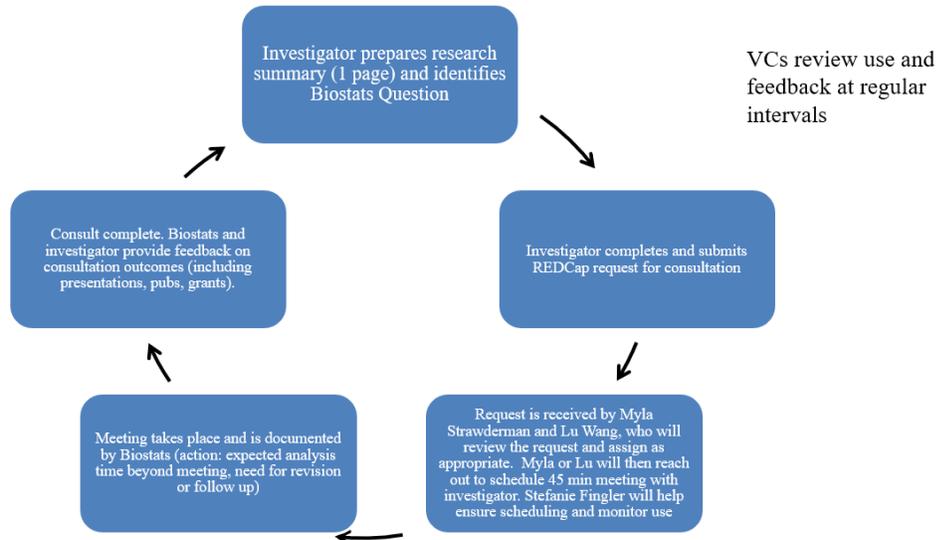
**\*If this is a cancer related project, please see [Wilmot Cancer Institute's Biostatistics Shared Research form](#)**

Please remember to acknowledge the Department of Medicine (DOM) support for the analyses in any papers or presentations, and consider including them as co-authors: "Supported in part by the Department of Medicine Biostatistical Shared Resource and the University of Rochester School of Medicine and Dentistry." Biostats support should be included in DOM Pilot grant preparations and included in grant submissions.

In the first year, 2022-2023, this will run as a pilot program to assess DOM Biostats needs, and we will adjust support in future years based on documented use. We are hopeful this resource will facilitate the development of exciting new research grants within the DOM, with a fair and equitable access to all.

If you have any questions related to this program, please directly reach out to Laura Calvi [Laura.Calvi@URM.Rochester.edu](mailto:Laura.Calvi@URM.Rochester.edu), Valentina Kutiyfa [Valentina.Kutyifa@heart.rochester.edu](mailto:Valentina.Kutyifa@heart.rochester.edu), or Stefanie Fingler [Stefanie.Fingler@URMC.Rochester.edu](mailto:Stefanie.Fingler@URMC.Rochester.edu)

# DOM Biostatistical SR Process



UNIVERSITY of ROCHESTER

Link to Survey - <https://redcap.link/DOMBiostats>

# PI Request for Biostatistical Support

This request form has been developed to request biostatistical support for Department of Medicine residents/fellows and faculty to facilitate research work. If you have any questions please reach out to one or more of the following:

[Laura\\_Calvi@URMC.Rochester.edu](mailto:Laura_Calvi@URMC.Rochester.edu)

[Valentina.Kutyifa@heart.rochester.edu](mailto:Valentina.Kutyifa@heart.rochester.edu)

[Stefanie\\_Fingler@URMC.Rochester.edu](mailto:Stefanie_Fingler@URMC.Rochester.edu)

Please complete the survey below.

**NOTE if this is a cancer related project, please DO NOT use this survey. Instead, visit the WCI [Biostatistical Shared Resource](#).**

Thank you!

**Investigator Name**

\* must provide value

Last Name, First Name

**Investigator Level**

\* must provide value

Select one

**Type of Research**

\* must provide value

**Investigator Email**

\* must provide value

Email Address

**Department of Medicine Division**

\* must provide value

List primary division requesting support

**Have you used the DOM Biostatistical Shared Resource before, for this specific project?**

\* must provide value

Yes

No

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**\*If Trainee Level – you will be prompted to include your mentor name\***

### Title of Project

\* must provide value

Limit to 200 characters

Please attach a 1-2 page summary of the project, including specific aims, study population, analysis plan, and any information about the biostatistical support requested. (Submissions with missing information will not be reviewed). If published papers are cited, please include the references.

\* must provide value

[Upload file](#)

No more than 2 pages

What type of support is requested? Select the option that best fits with your needs.

\* must provide value

- Study preparation and/or pre-study planning
- Sample size, power calculations, and analytic plans
- Basic statistics, including bivariate analyses (chi-square, t-tests, and ANOVA), multivariate regression (linear and logistic), non-parametric tests, correlations, and basic survival analyses (logrank tests, Kaplan Meier curves, and Cox regression).
- Database management
- Other

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What are the analyses for? Select the option that best fits with your needs.

\* must provide value

- Abstract submission
- Presentation preparation
- Pilot grant submission within UR
- Pilot grant submission outside UR
- Extramural peer-reviewed grant funded by NIH
- Extramural peer-reviewed grant funded by other organization
- Manuscript in preparation
- Manuscript in revision

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**Due Date (We recommend submitting your request 3-6 weeks prior, however depending on demand or nature of the project we realize that this may not be feasible and so if time is an issue this will be addressed at the time of the consultation).**

  M-D-Y  
MM-DD-YYYY

\* must provide value

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**Do you have other grant funds that could support this biostatistical request?**

- Yes  
 No

\* must provide value

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**Are you willing to write biostatistical support into the future grants?**

\* must provide value

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**Will another person be helping to coordinate scheduling on behalf of the lead investigator?**

- Yes  
 No

\* must provide value

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**Should any other University of Rochester investigators be included in the meeting?**

- Yes  
 No

\* must provide value

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**Upon submission, you will have the option to download your survey response (PDF), and save for your records.**

## DOM Biostatistical Resource Best Practices and Glossary

**Preparing for a meeting:** Please prepare a 1-2 pages summary of your study analysis proposal. Please focus on ONE relevant question and one hypothesis as typically done for pilot grants or preliminary analysis as this allows for quick turnaround and allows others to utilize this resource as well. Please review your submitted document and be ready to answer questions related to your study and your database variables as needed.

**Areas of support:** We cover the following areas of support.

1. Study preparation and pre-study planning: this typically relates to analyzing preliminary data needed to identify a new hypothesis for a new study, and typically includes a smaller dataset/pilot data.

2. Sample size, power calculations, and analytic plans: if you are submitting a research grant, you may need a sample size or power evaluation, along with a description of the primary and secondary analyses. We recommend that for grant submissions, you include a biostatistician to support the study (besides the initial consultation).

3. Basic statistics, including bivariate analyses (chi-square, t-tests, and ANOVA), multivariate regression (linear and logistic), non-parametric tests, correlations, and basic survival analyses (log-rank tests, Kaplan Meier curves, and Cox regression): tests will be determined based on your study question and hypothesis. You can suggest specific tests to be conducted, however, the biostatistician might recommend different tests to be conducted.

4. Database management: the shared resource can provide advice and basic assistance with data management for smaller studies. Complex database management needs require the expertise of trained personnel; shared resource personnel can review your needs and recommend expertise in that area.

**Feedback following a meeting:** The biostatistician might ask for revisions of the study plan and might set up a follow-up appointment with you to continue the discussion. The biostatistician will provide an estimated timeline of analysis completion. We will ask you to complete a feedback form in REDCap about this service.

Contacts:

Myla Strawderman [Myla\\_Strawderman@URMC.Rochester.edu](mailto:Myla_Strawderman@URMC.Rochester.edu)

Lu Wang [Lu\\_Wang@URMC.Rochester.edu](mailto:Lu_Wang@URMC.Rochester.edu)

Samia Lopa [samia\\_lopa@urmc.rochester.edu](mailto:samia_lopa@urmc.rochester.edu)

## Biostatistical Shared Resource Faculty

**Robert Strawderman**



Clinical / observational study design and analysis, survival and recurrent outcomes.

**Myla Strawderman**



Clinical trial and observational study design and analysis, survival outcomes, mediation models.

**Lu Wang**



Clinical / observational study analysis.

**Samia Lopa**



Clinical trial/Observational study design and analysis, Analysis of survival and longitudinal data

