

## Research Methods/Statistical Unit

The Research Methods/Statistical Unit (RMSU) at Charles R. Drew University's Institute for Advanced Biomedical Research (IABR) provides investigators with epidemiological and statistical analysis services for research studies.

The RMSU team provides consultation and technical assistance to investigators on project development, implementation, reporting, and dissemination in the following areas:

- Research specific aims and hypothesis
- Study approach and study design
- Sampling, and sample size and power analysis
- Instrument development and evaluation of data collection
- Development of statistical analysis plan
- Development of plan for data collection
- Development and design of database
- Randomization lists
- Survey sampling and complex sample
- Responding to reviewer's comments related to design and statistics for grants and manuscripts
- Statistical analysis and interpretation
- Statistical modelling and interpretation
- Proposal preparation and review
- Protocol development
- Manuscript editing
- Survival analysis and meta-analysis
- Data management and quality control

### Expertise:

- Clinical trials design, sampling, sample size, power analysis, implementation, data management, and statistical analysis
- Development of statistical test procedures for bioequivalency studies
- Development of robust estimation and semi-parametric models for the analysis of pharmacokinetic data
- Pharmaco-economic modeling [e.g., Markov models for the assessment of cost-effectiveness of new diagnostic procedures for cervical cancer]
- Study design, sampling, sample size, data management and analysis for observational studies
- Data management/analysis of complex sample survey data, longitudinal data, and aggregate data
- Stepped wedge (hierarchical) model for randomized and non-randomized studies of healthcare quality improvement and other implementation studies
- Data management and analysis of public use secondary data
- Analysis of the role of social determinants of health in human health
- Reliability analysis, mixed model, and genetic analysis
- Secondary data for research: The unit can assist investigators in finding applicable secondary data related to their research questions.

For questions and information regarding the unit and the services, please contact Dr. Magda Shaheen, [magdashaheen@cdrewu.edu](mailto:magdashaheen@cdrewu.edu)

### Pricing

\$100/hour for consultations

\$150/hour for technical assistance.

*Appointments scheduled by email and conducted through Zoom. Please send us the title of your project, the topic of your research, or your research question*

### Contact

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