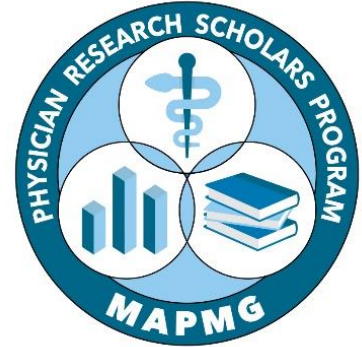

INSTRUCTIONS

- Please complete each section thoroughly. Provide all references used to develop the proposal in Section VII.
- If you are unsure as to how to answer a question, please type “unsure/would like input.”
- Applicants need for their Service Chief to submit Attestation via email. See Section VI.B for more information.
- Program specifics, including dedicated research time allowed, is provided in the MAPMG Physician Research Scholars Program Overview document. Please be sure to share this document with your Service Chief.
- Physicians-In-Chief will be notified of any applicants in their service areas after the submission deadline.
- Example of a past application is provided in **Appendix A**.



Applications should be prepared in Microsoft Word using only this template. Please do not alter the template. Applications should be submitted as Microsoft Word documents.

Be sure to include your most recent CV, highlighting prior publications, research experiences, and/or specific research training/education, along with the Application.

Final Applications and CVs should be emailed to the following address:
PhysicianResearchScholars@kp.org

If you have questions about the program or Application, please contact the following address:
PhysicianResearchScholars@kp.org

All Applications are due by Midnight, Friday, May 24, 2024.

I. Applicant Identifying Information

Name:
Email Address:
Service Area:
Department:
Service Chief:
Service Chief Email Address:

II. Applicant description of previous research experience. This can include any research within academic programs or graduate programs. Please describe your experience in 3 – 5 sentences. If you have no research experience, please write N/A.

III. Description of RESEARCH PROJECT. Provide information for each section of the proposed research project. See Appendix A for example. If you are unsure as to how to answer a section, please use your best judgement and include “unsure/would like input.” Provide all references used to develop the proposal in Section VII.

A. Introduction. Please provide one paragraph of background information, including the known gaps in knowledge.

B. Hypothesis(es)/Research Question(s). Please state your hypothesis(es) or research question(s) you would like to answer.

C. Novelty/Impact. Please provide 1-2 sentences summarizing how the proposed project(s) adds to known evidence and/or demonstrate(s) value.

D. Population. Please describe the population included in the hypothesis(es)/research question(s) and the control population.

E. Methods and Feasibility. Please provide information for each of the areas below:

i. What is your study design (retrospective data analysis, prospective study, etc.)?

For more information on identifying your study design, please see Appendix B and refer to this series by [Grimes, et. al. in The Lancet](#) and a summary available at this [link](#).

ii. What is your comparison and/or control group? If you are proposing a descriptive study, please write N/A.

iii. What is the source of your data? For example, EHR – laboratory results, visit notes, radiology results; survey data; external data source.

iv. What is(are) your Outcome(s) and how will you measure it?

F. Limitations. Please outline any limitations of your idea or approach.

G. Collaborations. Will your proposed research involve internal or external collaborators (external institutions, other KPMAS departments, etc.) If so, please describe the collaboration(s) and whether you have spoken with these collaborators about their involvement. *Please note that preliminary or established collaborations are not necessary and will not affect proposal evaluation.*

IV. Additional comments or questions. Please use this space to provide any additional comments or questions.

V. Applicant Interest in MAPMG Physician Research Scholars Program. Please outline your interest in the Physician Research Scholars Program in 3–5 sentences:

VI. Attestations. The Physician Research Scholars Program provides dedicated time for research activities. Scholars are expected to engage with the research team and participate in program activities. It is important for both the Applicant and the Applicant's Service Chief to understand the time commitment and agree to the principles of the program. Program specifics, including dedicated research time allowed, is provided in the MAPMG Physician Research Scholars Program Overview document. Please be sure to share this document with your Service Chief.

A. Applicant Attestation. Applicant should read and answer the following questions.

i. Will you commit to participate in the Foundation of Research Curriculum (2-3 days, dedicated time from clinic)? Please answer Yes or No:

ii. Will you commit to engaging with members of the research department to discuss and outline your research idea? Please answer Yes or No:

iii. Will you commit to submitting 2 peer reviewed conference abstracts and 2 peer reviewed publications in 24 months with the support of the Mid-Atlantic Permanente Research Institute (MAPRI) staff? Please answer Yes or No:

B. Service Chief Attestation. Service Chief approval and attestation is required for submission. Approvals and attestations can be obtained via email and included with the Application as a screenshot or attachment.

i. Will you commit to allowing the Applicant to participate in the Physician Research Scholars Program for the entirety of the 2 years? Please answer Yes or No:

ii. Will you commit to allowing the Applicant to participate in an up to 2-day training activity at the start of the program in early 2023? Please answer Yes or No:

iii. Will you commit to allowing the Applicant one day per week during the entirety of the program dedicated to research activities outside of clinic duties? Please answer Yes or No:

iv. Will you agree to not schedule the Applicant for on-call hours the day of and the day before their dedicated research day? Please answer Yes or No:

VII. References.

Appendix A. Sample Application

Title: Characteristics and Outcomes for Pregnant Patients with COVID-19

Introduction: The COVID-19 pandemic has created a public health emergency that is rapidly evolving and unprecedented in modern times. As of May 20, 2020, over 5 million cases were confirmed worldwide with over 300,000 total deaths.¹ Pregnant women are considered high risk due to physiologic changes including immunologic, cardiopulmonary, and hematologic, and potential effects on the growing fetus. However, despite the large number of those affected, little is known about effects of the virus in pregnancy.

Knowledge at this time is limited to case reports, case series, and systematic reviews compiling cases. For example, a recent systematic review included 54 published case series/reports to date.² In addition, the data available is skewed towards women at time of delivery due to hospitals with universal testing on labor and delivery. Even less is known about women earlier in pregnancy and/or in the outpatient setting.

Hypothesis(es)/Research Question(s): What are characteristics and clinical outcomes for pregnant women with COVID-19 and their babies in a large health care network?

Novelty/Impact: Our network as well as EMR allow for exploration of data for a large, diverse cohort of pregnant and postpartum women that would broaden and deepen knowledge of the effects of the virus during this important and vulnerable time.

Population: Women within MAPMG who were pregnant or within 6 weeks postpartum when diagnosed with COVID-19.

Methods and Feasibility: This would be a retrospective cohort study of COVID positive pregnant patients performed 6-12 months into the pandemic. The study would largely be descriptive and exploratory to help identify characteristics of COVID positive pregnant patients such as age, race/ethnicity, BMI, comorbidities, and gestational age at time of infection. Pregnancy outcomes and other clinical outcomes would be described as well such as miscarriage, abortion, preterm delivery, full term delivery, route of delivery, neonatal outcomes, and hospitalizations outside of for labor and delivery.

Limitations: Limited testing both nationally and within our network makes it impossible to identify all COVID positive patients, especially for asymptomatic cases. Those who get tested may differ clinically or demographically from those who do not, which may skew results.

Collaborations: None currently.

References:

1. COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins. Available at: <https://coronavirus.jhu.edu/map.html>. Last accessed May 21, 2020.
2. Juan J, et al. Effects of Coronavirus Disease 2019 (COVID-19) on Maternal, Perinatal and Neonatal Outcomes: A Systematic Review. *Ultrasound Obstet Gynecol*. 2020 May 19. Online ahead of print.

Appendix B. Types of Studies

Below are categories of study designs and specific types within each category. For a full description of each type of study and its appropriateness, including a determination flow chart, please refer to this series by [Grimes, et al. in The Lancet](#) and a summary available at this [link](#). Complete Grimes series:

1. [Overview of Clinical Research](#)
2. [Descriptive Statistics](#)
3. [Bias and Causal Associations in Observational Research](#)
4. [Cohort Studies](#)
5. [Case-Control Studies](#)

Please note:

Randomized controlled trials are resource intensive and may not be appropriate for internally funded projects or the MAPMG Physician Research Scholars Program. Applicants considering this type of research should meet with the MAPRI program team to discuss their ideas and whether pursuing external funding is most appropriate.

Systematic Reviews may be appropriate for internally funded projects but will not be considered as an appropriate study design for the Physician Research Scholars Program.