

## Meta-Analysis

### **Conducting a Meta-Analysis:**

For this type of scholarly activity project, the resident will need to write a brief protocol covering important aspects of a meta-analysis (the Biomedical Investigations Department will help guide the resident through the process). The protocol should include:

1. A brief introduction of the topic
2. The research question(s)
3. The criteria that will be used in the literature search to select appropriate articles, i.e. years to search, key words etc.
4. The criteria that will be used to include a study in the meta-analysis (type of study, measures of effect, how the outcome was measured, characteristics of the study population etc.).
5. A mock-up of the data table that will be used to describe and classify the studies (example attached)
6. A brief description of the statistical analysis (the assigned medical researcher will help guide and assist the resident through this step)
7. Predicted results

An example of a meta-analysis table is found on the next page. The meta-analysis protocol will not require IRB approval as this type of study does not involve human subjects.

	Title	Authors	Year	Type of Study	Sample Size	Results	Measure of Effect
<b>Prospective studies with a positive association</b>							
1.	Hyperuricemia and increased risk of IHD in a large Chinese cohort	Chuang SY, Chen JH, Yeh WT, Wu CC, Pan WH	2015	Prospective cohort	128569	Hyperuricemia was independently associated with the development of Ischemic heart disease in the general population.	HR Men 1.25 (1.11,1.4) Women 1.19 (1.02-1.38)
2.							
3.							
4.							
<b>Prospective studies with a negative association</b>							