Ideas for Josh Cook Fellowship (3/27/2024)

Infection related cancers: cervical, liver, and stomach

* Liver and stomach infection-related cancers #’s are small in US and usually have to be studied at the global level
* Cervical cancer is the most common in US
  + HPV Vaccines have changed the landscape within the last 15 years, but still have a large group of older adults who were not eligible for vaccination
  + Cervical cancer disparities exist for minorities, rural, and LGBTQ+ populations
  + Another important aspect is uptake of vaccination

Possible avenues of research

1. HPV vaccination uptake
   1. Adolescents as well as special groups (LGBTQ+)
2. Cervical cancer disparities/epidemiology
   1. Probably most understudied group is LGBTQ+ populations and most in need of research and intervention
      1. Access to data on SGM is an issue
      2. Another important aspect is potential for harm with SGM data
   2. Could also create projects looking at minority or rural populations
      1. This area is more studied, so would have to dig deeper in this area to carve out a more novel project

Another methodology that is very popular and might enhance skill set is geospatial analyses using geospatial information systems (GIS). Can do lots of interesting things with maps (see next 2 pages for examples). The only limitation to this would be the need for training on using GIS (which I do not have the expertise to do). I do have experience with another program Datawrappers which does basic mapping.

Mtg Agenda:

1. Introductions
2. Project Discussions
3. Setting up routine meetings

A map of cervical cancer

Description automatically generated

A map of the united states

Description automatically generated

The previous examples were all done by other individuals who have expertise in Arc GIS (which I do not). Below is an example of some basic mapping that I have done myself using a free online tool Datawrappers.

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Description automatically generated with low confidenceA map of the united states

Description automatically generatedA number of squares with numbers

Description automatically generated with medium confidence

**Figure 1.** Adults aged 45 years or older who reported being a caregiver to a friend or family member.