The Public Science Collaborative (PSC) is assisting the Iowa Department of Public Health Substance Abuse Bureau and the Linkage to Care Advisory Board to develop single-source, in the form of a dashboard, containing public health vital statistics including information on youth and data currently in the prescription monitoring program.

**Objective:**
Promote health equity, move from data to action, improve preparedness for substance use outbreaks, monitor state-wide substance use and support data-informed decision making.

**Users:**
- Proposal Writer: Research, creating tables and monitoring trends to write grants, reports, policy briefs and develop needs assessments.
- Community Coalition: Strategic planning, circulate information, local planning and recovery peer support.
- Decision Maker: Decisions that impact Iowa services, programs and citizens.
- Health Administrator: Identify gaps in services, monitor prescribing practices and connect to other community resources, services and providers.

**Datasets:**
- Vital Statistics 2010-2020 (Simulated)
- Iowa Youth Survey 2018 (IYS - Simulated)
- Prescription Monitoring Program 2014-2019 (PMP)

Focus on designing a dashboard for the PMP dataset.

**Dashboard Layout**
- Over Half of Iowa Counties saw an increase in Prescriptions in 2019
- Longest Opioid Prescription Length
- Average Days by Morphine Equivalent (MME)
- Prescription Length
- Prescription Type Distribution, 2014-2019
- All Prescriptions Proportion by Gender
- Longest Opioid Prescription Length
- Prescription Trends, between 2014 - 2019, show that opioid prescription lengths are generally shorter, by roughly 10 days, compared to benzodiazepine, stimulants and other controlled substances.
- The range for each substance is consistent during the six-year timeframe.

**Gender**
- The majority of prescriptions are controlled substances and opioids.
- The prescriptions with an increasing trend are stimulants and benzodiazepines.
- Stimulants are the only prescription where there is a larger proportion of males than females.

**Patient Prescription, 2014 - 2019**
- The year 2015 had the most substances prescribed.
- The year 2018 had the least substances prescribed.
- Controlled substances were prescribed the most.
- Stimulants were prescribed the least.
- Stimulants were prescribed the least.
- Substances prescriptions were declining until 2019 as we start to see a potential up trend in prescriptions.
- Interestingly, all prescribed substances have similar upward and downward trends over the years except for stimulants as they have been steadily rising over the years.

**Prescription Type Distribution, 2014-2019**
- The majority of prescriptions are controlled substances.
- The majority of controlled substances are opioids.

**Average Days by Morphine Equivalent (MME)**
- The counties with the highest MME concentration and prescription length are Appanoose, Sac, Mahaska, Decatur and Montgomery.
- The counties with the lowest MME concentration and prescription length are Jones, Story, Clinton, Linn, and Winneshiek.
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