

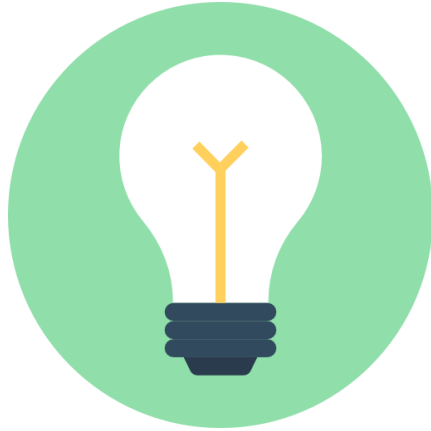
Social Determinants of Health Captured by Claims Data: A Comparison of Clinical Profiles

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November 6, 2019



FAIR Health at a Glance



Unique Origins

Established as a conflict-free, independent, national nonprofit public charity



Broad Mission

To bring transparency and integrity to healthcare costs and health insurance information



Multi-Stakeholder Solutions

Fulfills mission with robust data products and custom analytics, award-winning consumer tools and research/policy-making platform

The FAIR Health Private Claims Repository

29+ Billion

**Medical and Dental Claims
from 2002 to the Present**

Updated on a monthly basis

150+ Million

**Covered
Lives**

493

**Regions in the
United States**



Insights into the Private Claims Repository



Coverage

- All 50 states and District of Columbia
- US Territories – Puerto Rico, US Virgin Islands



60+ Contributors

- National and regional payors
- Third-party administrators



Private Insurance Claims

- Fully insured and self-insured/ERISA plans
- Cover 75 percent of privately insured US population



Quality Testing and Control

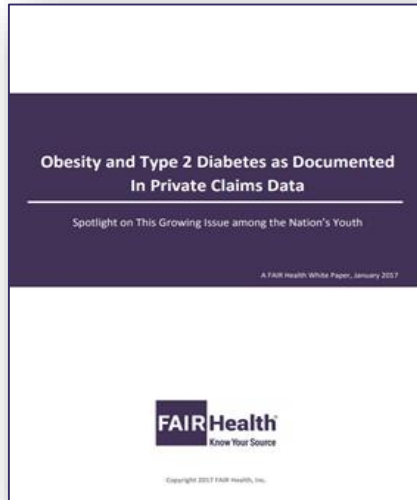
- Data validated with expert-vetted tests for completeness, volume, accuracy, etc.
- Recognized statistical outlier methodologies exclude excessively low and high values that distort distribution

Neutral Crossroads

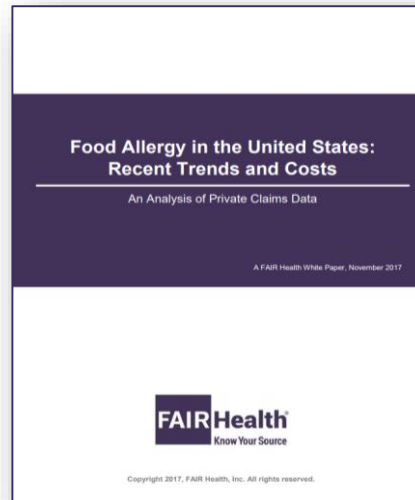


FAIR Health White Papers

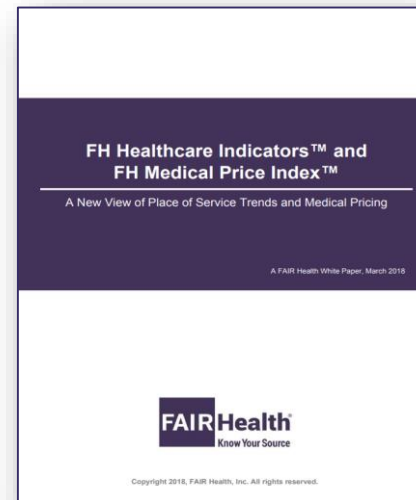
January 2017



November 2017



March 2018



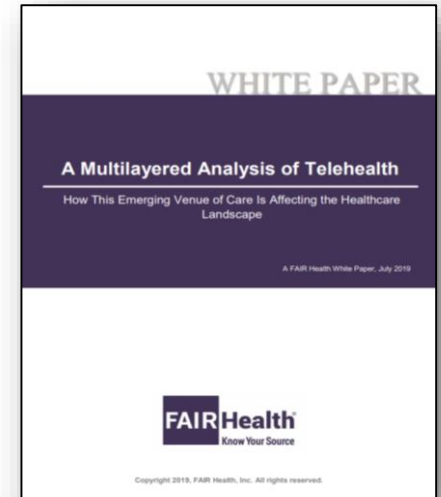
April 2019



May 2019



July 2019



What Are Social Determinants of Health (SDoH)?

- “Healthy People 2020 defines social determinants of health as conditions in the environments in which people live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks.”
- “Resources that enhance quality of life can have a significant influence on population health outcomes. Examples of these resources include safe and affordable housing, access to education, public safety, availability of healthy foods, local emergency/health services, and environments free of life-threatening toxins.”

“Social Determinants of Health: Know What Affects Health—Frequently Asked Questions,” Centers for Disease Control and Prevention, last updated February 7, 2018, <https://www.cdc.gov/socialdeterminants/faqs/index.htm>.

Why Study SDoH?

- Enables providers to better understand patients
- Helps providers have better communication with patients about conditions and behavior affecting their health
- Assists in achieving health equity in which everyone can achieve optimal health regardless of social circumstances
- Allows for more comprehensive care
- Helps to improve overall health outcomes

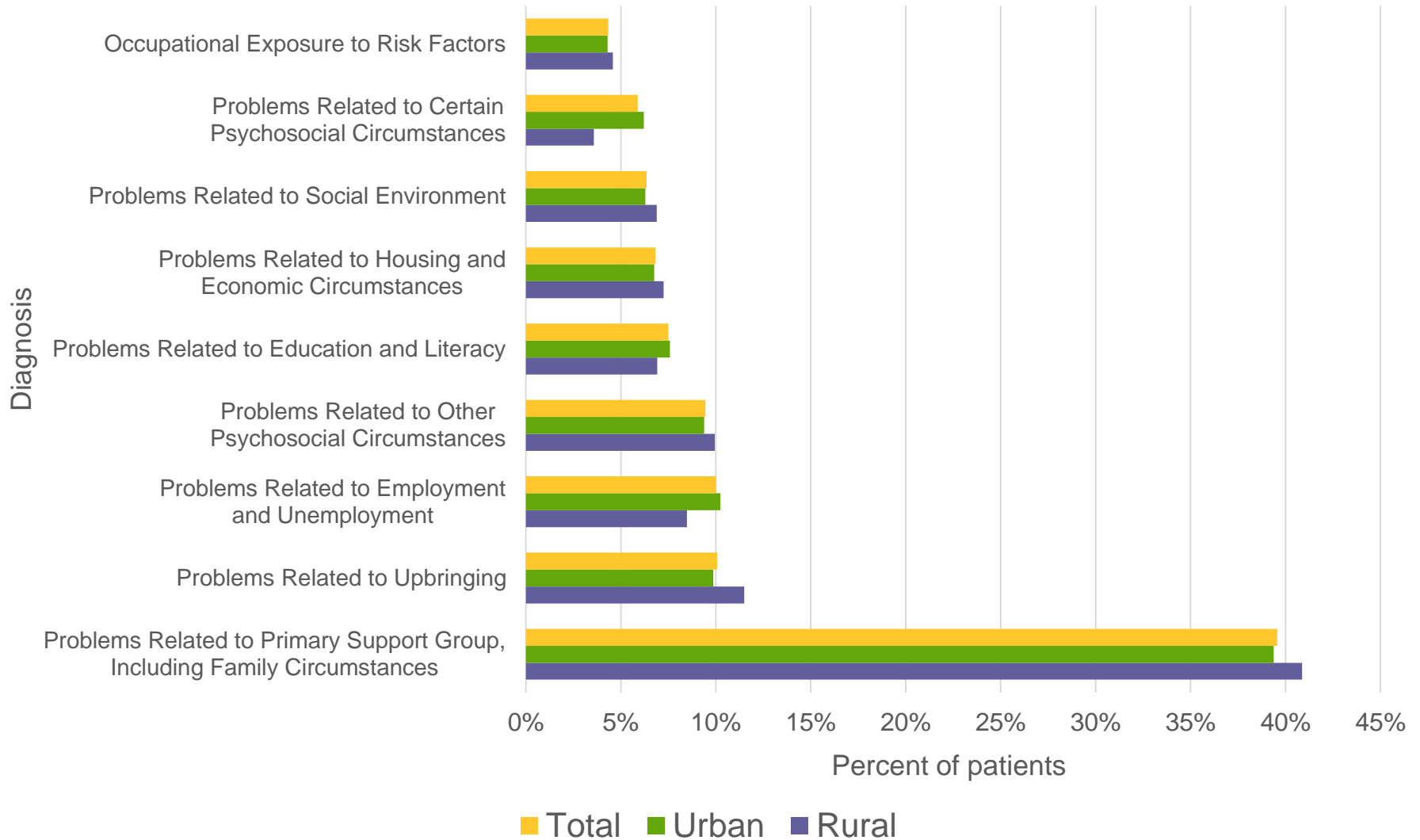
Methodology

- Three years of data (2016–2018)
- Longitudinal dataset
- Selected claims with ICD-10 diagnosis codes for relevant SDoH
 - ICD-10: Z55-Z65
- Analyzed data by patient demographics:
 - Age
 - Gender
 - Rural/Urban
- SDoH Diagnoses Analyzed
 - Problems Related to Primary Support Group, including Family Circumstances
 - Problems Related to Upbringing

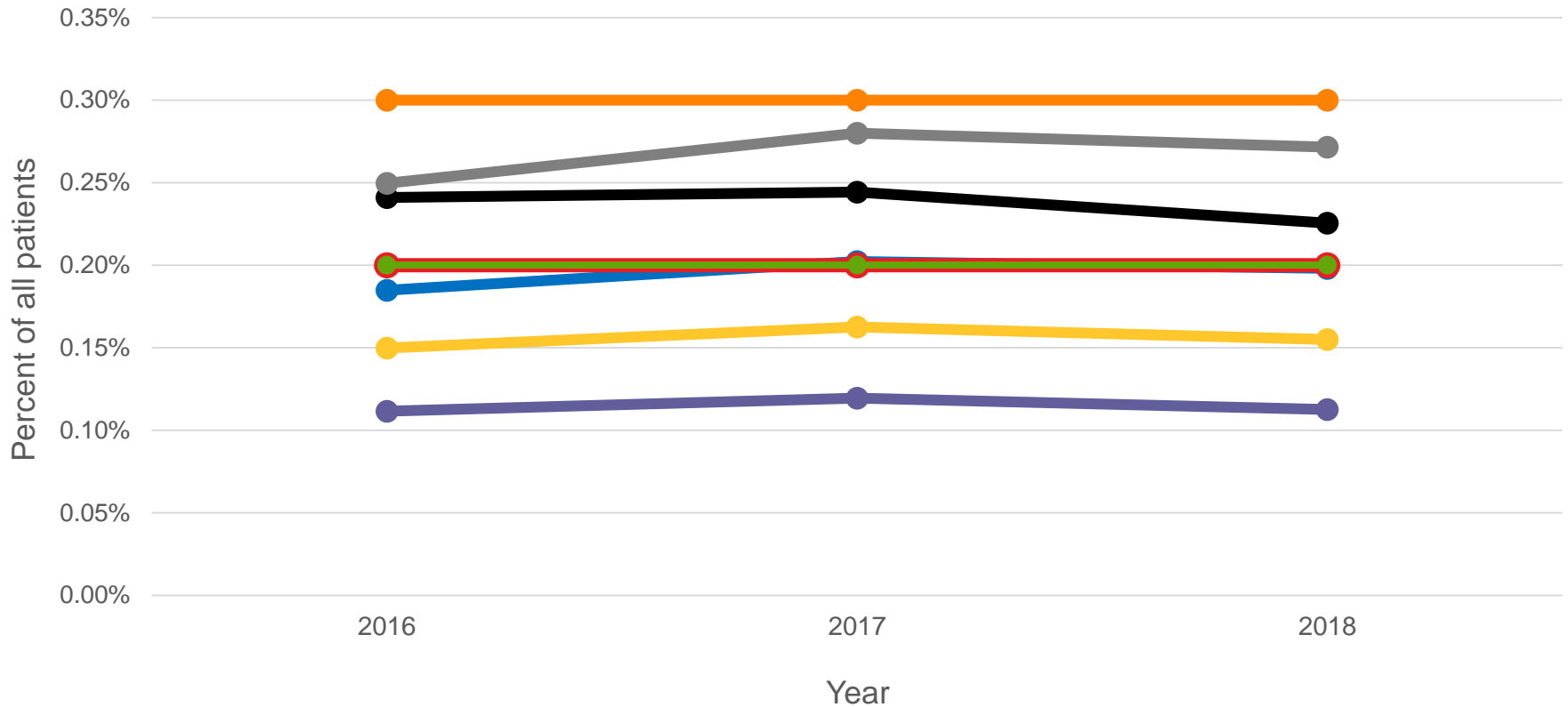
Findings

What do the claims data show?

SDoH by Rural and Urban Indicator

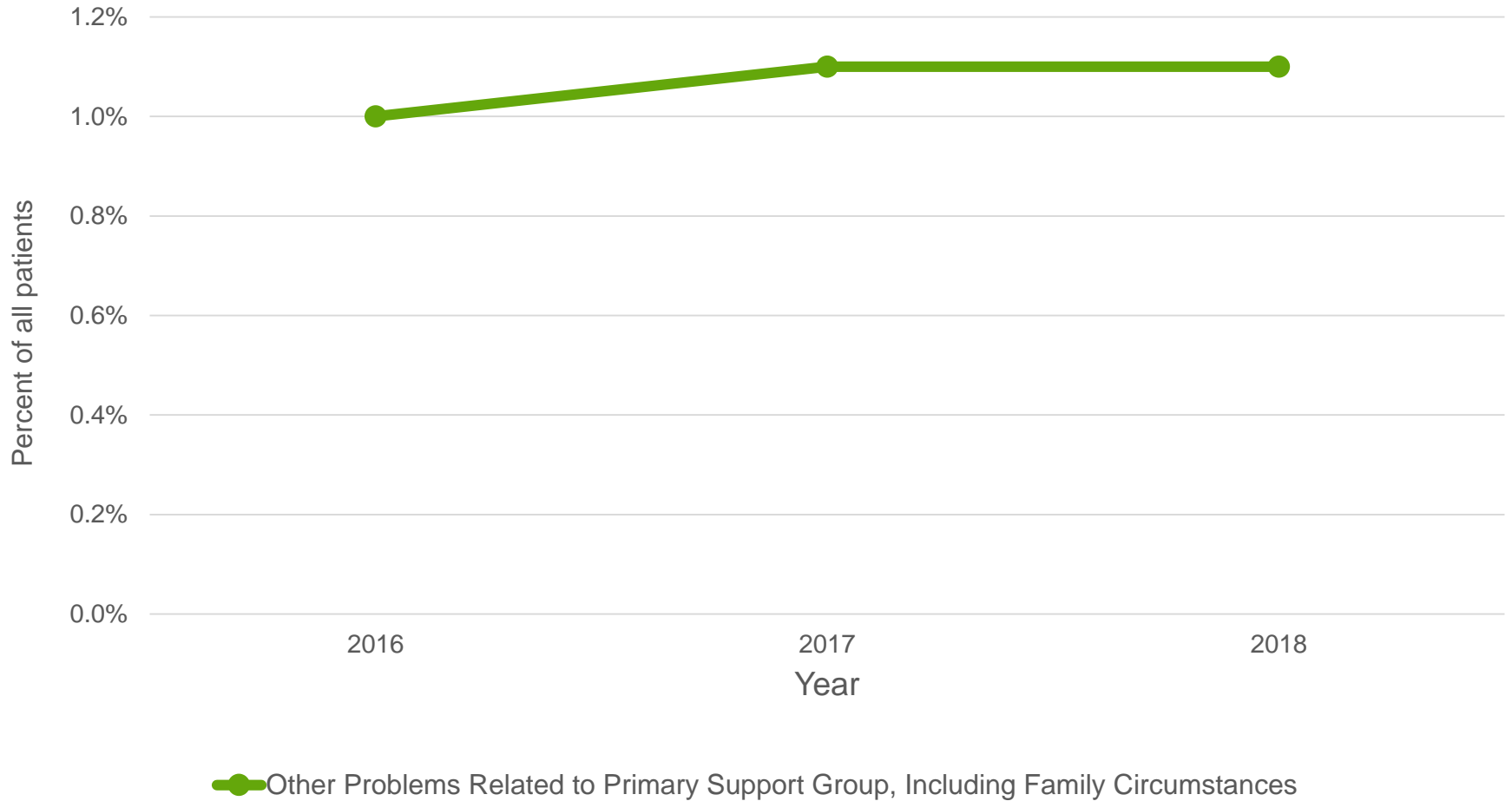


Patients with SDoH Diagnoses as a Percentage of all Patients



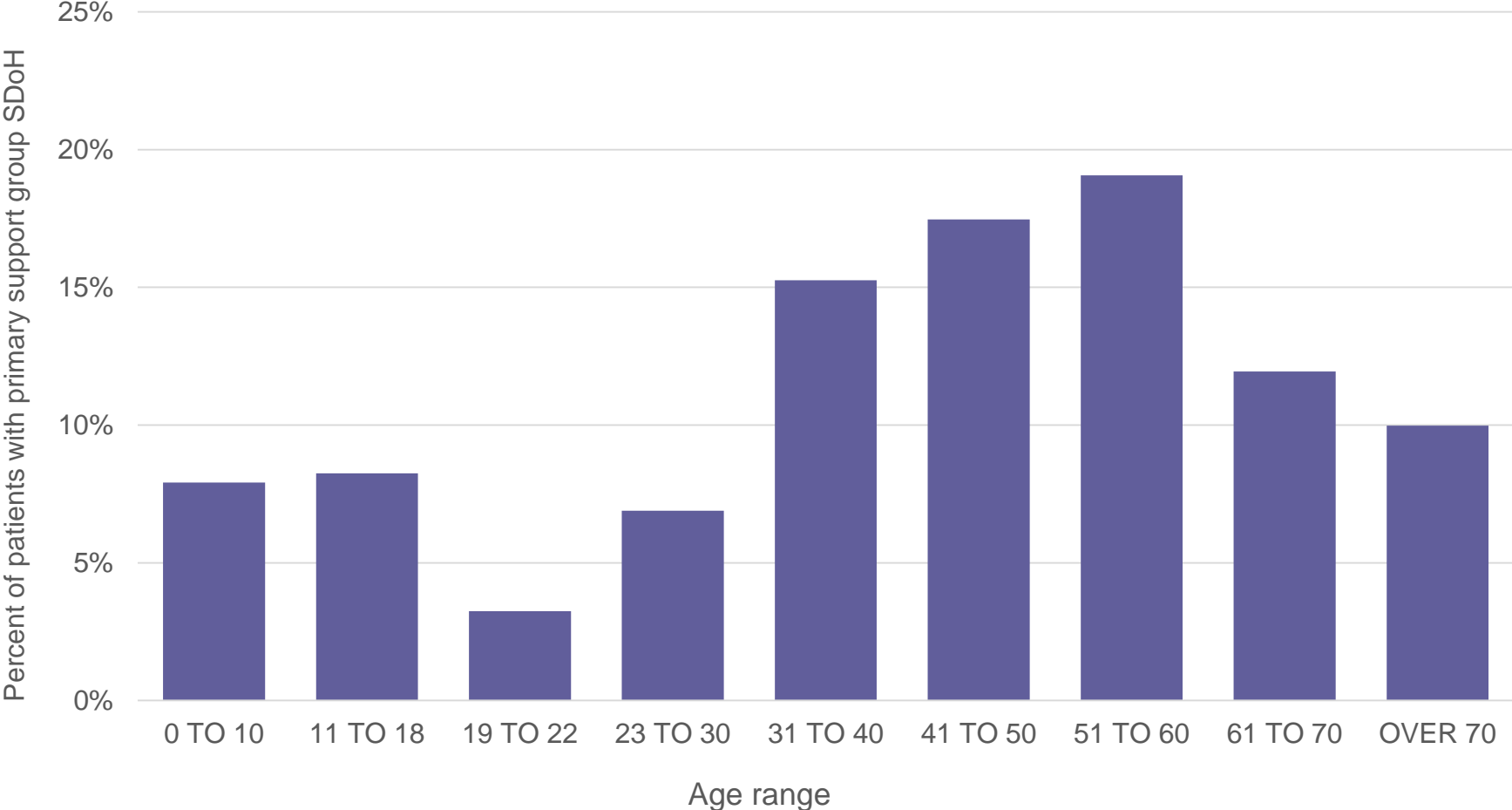
- Occupational Exposure to Risk Factors
- Problems Related to Education and Literacy
- Problems Related to Housing and Economic Circumstances
- Problems Related to Social Environment
- Problems Related to Certain Psychosocial Circumstances
- Problems Related to Employment and Unemployment
- Problems Related to Other Psychosocial Circumstances
- Problems Related to Upbringing

Percent of Patients with Other Problems Related to Primary Support Group as a Percentage of all Patients



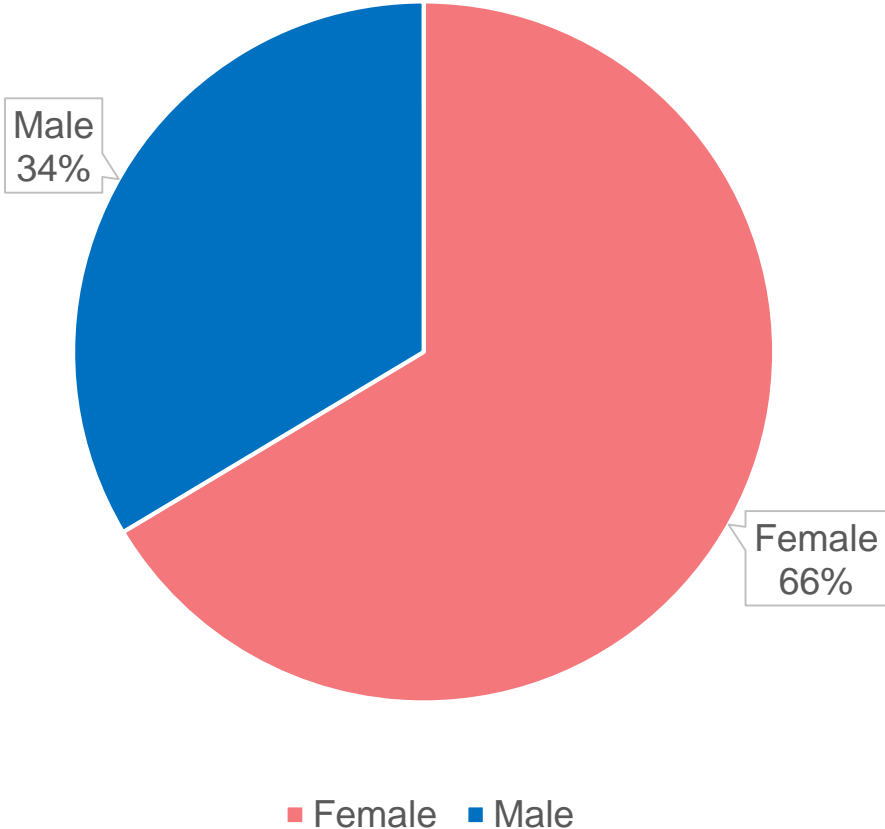
Problems Related to Primary Support Group, including Family Circumstances

By Age

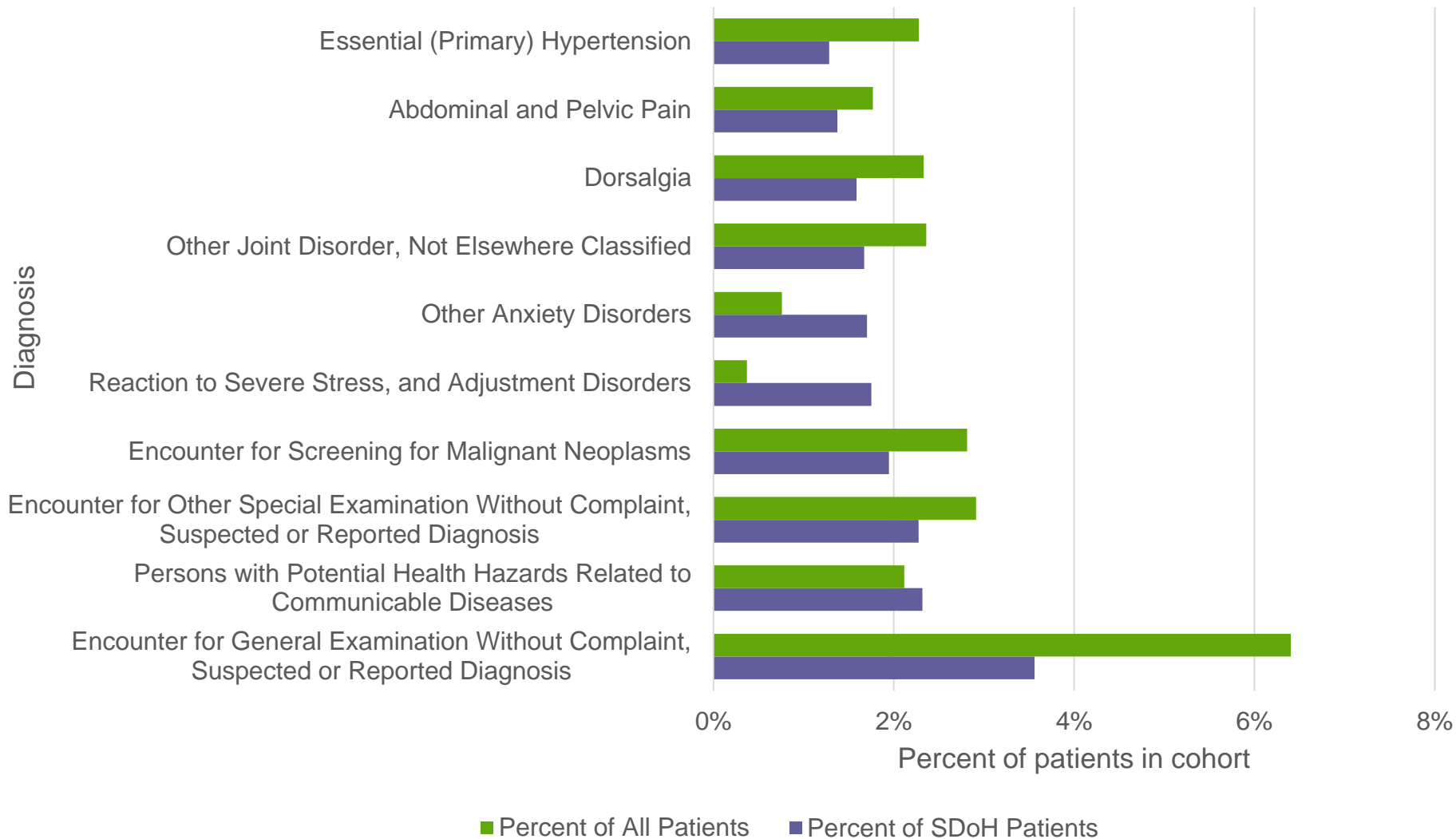


Problems Related to Primary Support Group, including Family Circumstances

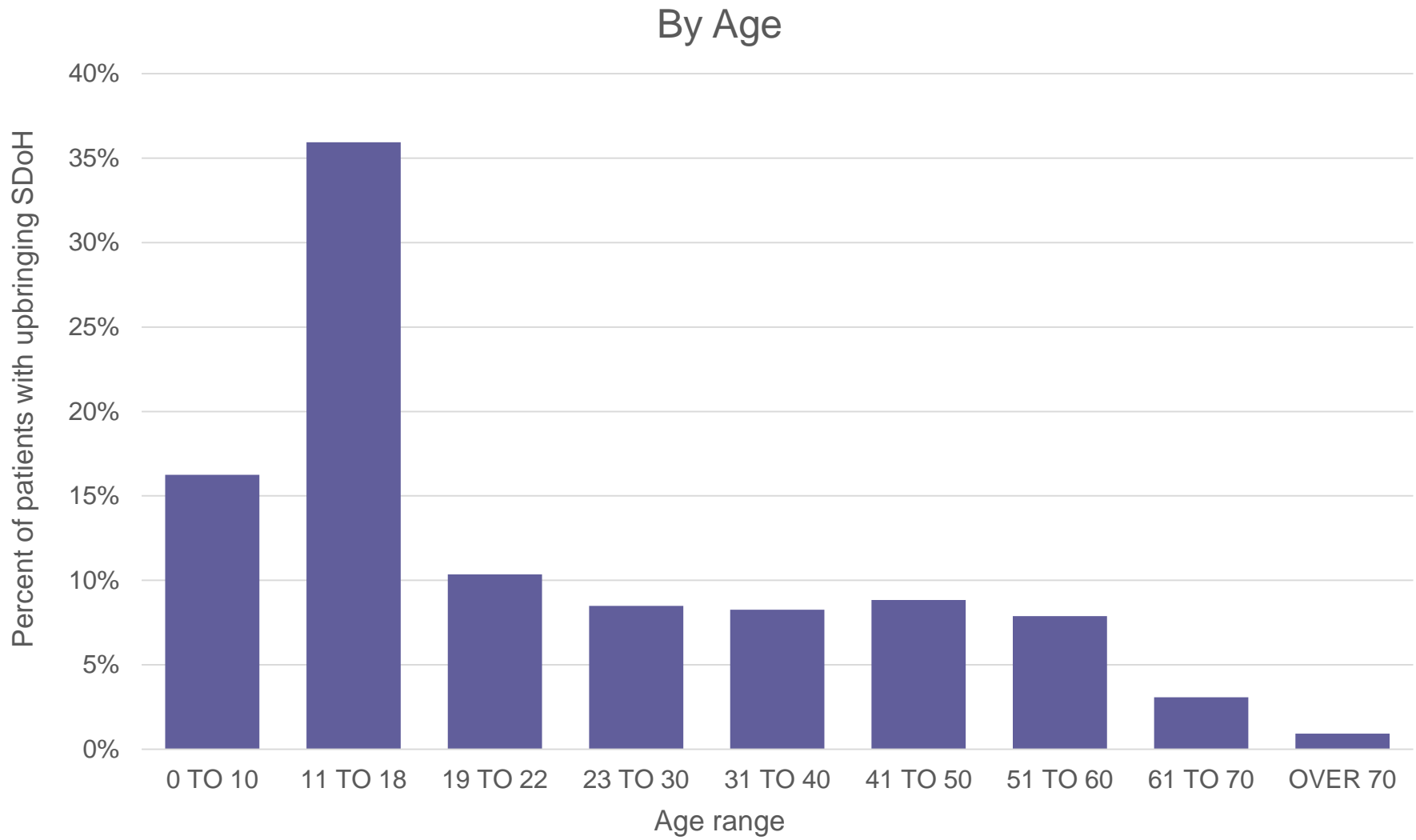
By Gender



Problems Related to Primary Support Group vs. All Patients: Top Diagnoses

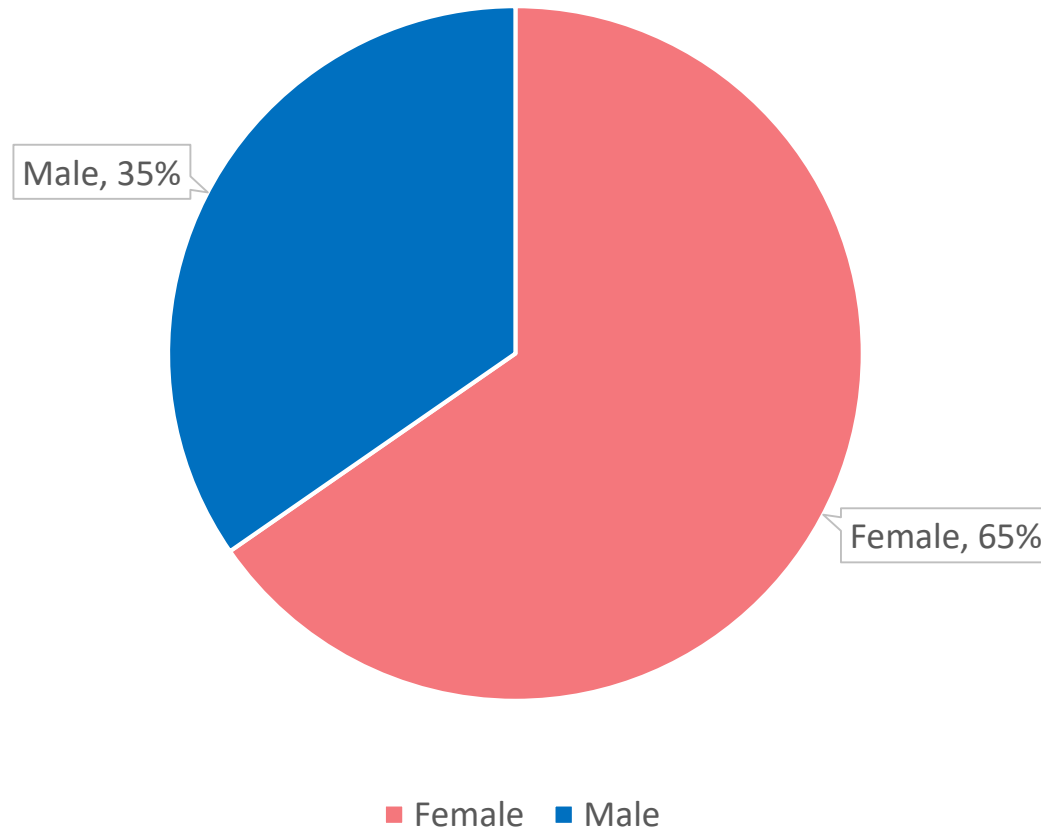


Problems Related to Upbringing

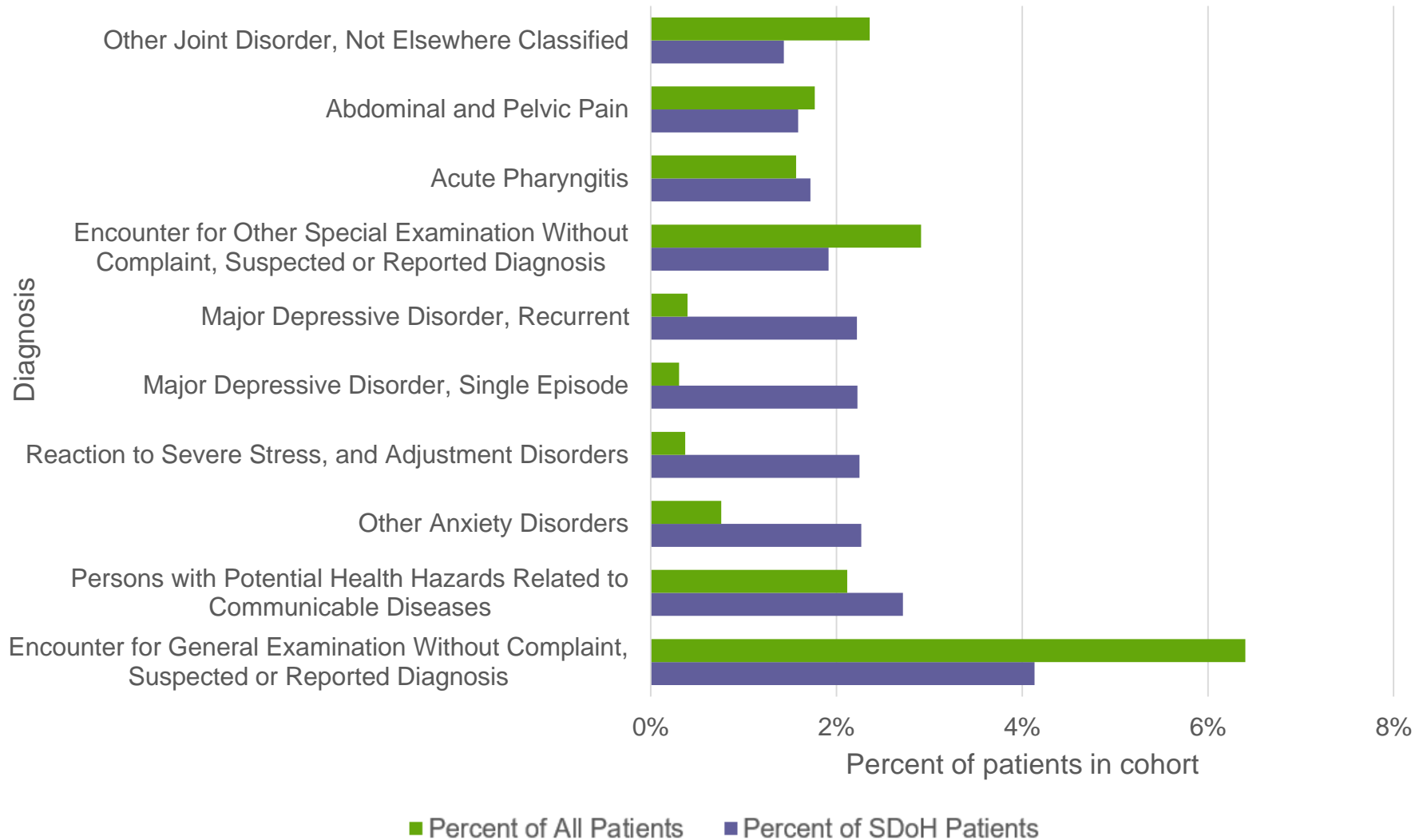


Problems Related to Upbringing

By Gender



Problems Related to Upbringing vs. All Patients: Top Diagnoses



Takeaways

- The SDoH diagnosis codes are increasingly being included on medical claims.
- Claims data can be used to support analyses of the populations with identified SDoH.
- Key trends are beginning to form:
 - Problems related to social supports, upbringing and economic stability are the top three most common SDoH being documented.
 - Women are more likely to be associated with a SDoH diagnosis.
 - SDoH are being identified during general checkups.
 - Of note, anxiety-related diagnoses and SDoH relationship

Questions/Discussion



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