



SAIL DATABANK 🚺 POWYS

June 2025

Helen Daniels, Tim Osborne, Athena McBride, Owen Hughes, Natalie Joseph-Williams, Adrian Edwards, Ashley Akbari, Rowena Bailey, Libby Humphris, Elizabeth Doe, Rhiannon K Owen

### Background

Persistent pain is a **major public health concern.** It has a **significant impact on quality of life** and places considerable **demand on the NHS.** 

In 2023, Welsh Government published their guidance <u>'Living with</u> <u>Persistent Pain'</u>, marking persistent pain as a **national priority**.

## Aim

To provide evidence to **inform decision-making around current and future persistent pain services,** capacity planning, and implementing health policies in Wales.

# **Study Design**

A **cohort study** of routinely-collected Electronic Health Records (EHR) and administrative data during the period 2010-2023. A **cohort study** is a type of observational study that follows a group of people over time, observing how certain factors influence their health outcomes.

## Data

The data analysed in this study included **people living in Wales** that are registered with a GP that provides data to the <u>SAIL Databank</u>, identifying specifically;



**Diagnoses** | *People with a pain related diagnosis in their Electronic Health Record (EHR)* 



**Prescriptions** | *People prescribed opioids or gabapentinoids for* **3** *months or more* 



Pain services | People referred to specialist outpatient services

**Comparator** | *A* comparator group included people who did **not** meet any of these criteria.

The following healthcare interactions were assessed:

<u>М</u>

GP appointments / prescriptions



Hospital admissions





A&E visits





Population Data Science Faculty of Medicine, Health & Life Science Gwyddor Data Poblogaeth V Gyddira Meddwaeth, Gwyddor Jechyd a Bwyyd

Swansea

University Prifysgol

## **Key Findings**

#### 15% of the population of Wales are living with persistent pain

- 10% had a diagnosis of persistent pain in their health record
- 7.3% were prescribed pain medication for 3 months or more
- 1.85% were referred to specialist outpatient pain services

#### **Demographics**

Persistent pain was more common among:

- older adults (especially ages 61-70)
- women
- individuals living in more deprived areas

Higher rates of frailty and comorbid conditions were seen in those with persistent pain, compared to the general population.



#### **Healthcare Use**

People living with persistent pain had 63% more GP appointments and prescriptions than those without.



#### Referrals

Those referred to pain services had more healthcare interactions overall and were younger and less frail compared to those who were not referred.

### **Research Implications**

#### **Unmet Need**

While we cannot determine this directly from the data, findings may point to unmet need in accessing specialist care, particularly among older adults and individuals from more deprived areas.

#### **Health Inequalities**

Patterns of pain prevalence and service use reflect existing inequalities across age, sex, and socioeconomic status.

#### System Impact

Persistent pain places a significant burden on primary and secondary care services, which has implications for NHS capacity and planning.

## **Policy and Practice Implications**

There is a need to:

- Better identify and code persistent pain in primary care settings (e.g. GP surgeries).
- Explore and address barriers to healthcare access, including referral to specialist services in the community for older and more deprived populations.
- Develop policy and service planning around **patient-reported outcomes and real-world experiences**.

