

Project List

2023

**Administrative data
is an invaluable
resource for public
good. *We're using it.***



Climate Change

Increasing temperatures and the impact on population health

This project will look at how variability and extremes in temperature impact population health. By linking Met Office temperature data to health and administrative data, the team will explore the impacts of temperature variability and extremes on cardiovascular and respiratory conditions in the young and older populations.

The impacts of elevated temperatures on maternal, foetal and neonatal health outcomes in Wales

This project will look at how elevated temperatures impact maternal, foetal and neonatal health outcomes in Wales. It will investigate how socio-demographic, housing qualities, and other environmental factors affect these outcomes. Through the study of lab based bio markers, the research team will look at how heat stress impacts placental health.

Active travel among school aged children in Wales

In collaboration with Public Health Wales, this project will look at what proportion of school aged children in Wales have the 'potential' to travel actively to school and how this compares to self-reported rates. Looking at the National Survey for Wales (NSW) and School Health Research Network (SHRN), the research team will define walkable and cyclable distances. Future work will include environment characteristics such as traffic, the built environment and safety to develop a more realistic picture of walkability.

Enhancing understanding of populations inequalities in Wales

This work will use existing and new health, demographic and administrative data to characterise the population of Wales into socio-economic, marginalised and vulnerable groups of individuals to aid future understanding of population inequalities in Wales.



Early Years

Analysis of Flying Start outcomes using linked data

This project aims to explore health and educational outcomes of the Flying Start cohort comparing individuals within the programme who engage at different levels with its different elements (e.g. childcare).

Analysis of Childcare Offer for Wales using linked data

This project aims to investigate socio-economic and developmental outcomes of the Childcare Offer for Wales programme. Outcomes will be explored both at the child and parent levels and will be compared with those who do not take up the Offer.

Early years support for vulnerable children

This project aims to understand what works to support vulnerable children, such as those experiencing domestic violence, adverse childhood conditions or children who are looked after or under child protection measures, with a view to supporting these children during their early years.

Childhood inequalities

This project will look at interventions that aim to reduce inequalities among children such as Free School Meals, access to child care, the built environment and maternal employment and how they impact the child, with a view to supporting children during their early years.

The role of nurseries and networks to support high risk families

This project will work with families, health visitors and nurseries to develop and test interventions to improve outcomes for high risk children (e.g. those in deprived households, those with low family resources (e.g. maternal depression) with the aim of developing and testing interventions for young families.

Supporting expectant parents

This project will look at the support provided to expectant parents and the affecting pregnancy outcomes.

Improving mental health in single parent families

Through child lead change, this project aims to develop interventions to improve mental health wellbeing among young people living in single parent families.



Education

Associations between pupil attainment and household characteristics

This project will investigate how children's attainment in school is associated with household characteristics such as household size, household composition and household socio-economic measures.

Welsh language skills and usage of teaching and support staff

This project will investigate Welsh language skills and usage amongst classroom teachers and those providing learning support. We will consider how these rates differ by region and Local Authority.

Gender differences in teacher pay and progression

This project will investigate if there are differences in the proportion of male and female teachers who hold leadership positions in schools. It will consider the pay and levels of experience of the teachers who have progressed into leadership roles by gender. It will also test whether differences by gender are consistent across school types.



Health and Well-being

Home environment wellbeing

This project will look at how can we harness routinely collected data to understand the impact of the home environment on an individual's health and wellbeing, and if this approach be used to improve wider population level research.

Individual wellbeing measures using routine data

This project will look at how can we harness routinely collected data to measure individual wellbeing. The project will include data relating to the individual, the home environment and area to try to understand and measure wellbeing.

General health and wellbeing for groups across Wales

This project will investigate the health and wellbeing of groups to illustrate difficulties and raise awareness for certain groups.

Workplace data linkage

This project aims to create a method to link an individual to their workplace as a pilot study to prove the concept of the method. The research team aim to include, for instance, individuals from the teachers workforce in Wales. Environmental data such as pollution levels at home and at work will be included, as well as the potential for active travel through commuting distances.



Housing and Homelessness

Does rehousing people quickly lead to more stable housing outcomes?

This project will provide evidence on ‘rapid rehousing’ in homelessness services—an approach based on the idea that rehousing people experiencing homelessness quickly reduces negative outcomes. It will investigate if the amount of time it takes to rehouse people experiencing homelessness differs between population subgroups, and whether the time taken to rehouse someone is associated with their housing stability.

The findings will inform future work to create a ‘rapid rehousing’ benchmark. The benchmark aims to identify at which point a household’s chances of experiencing homelessness again are reduced.

Severe Multiple Disadvantage in Wales

Following on from work already carried out in England and Scotland, this project will provide evidence on the extent of severe multiple disadvantage in Wales.

It will investigate to what extent severe disadvantages such as homelessness, mental health issues, substance use, alcohol dependency, and interactions with the criminal justice system, overlap amongst people in Wales.

COVID-19 vaccinations among people experiencing homelessness in Wales

This project aims to provide evidence related to the coverage and timeliness of COVID-19 vaccinations among people experiencing homelessness in Wales, with the aim of monitoring vaccine equality.

It will look at what proportion of people experiencing homelessness in Wales were vaccinated a year into the vaccine programme, and how vaccine coverage changed over time.

Housing pathways of young people in the UK

This project aims to identify patterns of housing consumption over time, among a cohort of young people. It will compare its findings to a study conducted a decade ago, and highlight any potential changes in young people’s housing between the two time-periods.



Major Societal Challenges

Covid-19 and Long Covid – What is the effect on inequalities within society?

This project will look at the prevalence and incidence of the long-term effects of Covid-19 in Wales with the aim of identifying if the effects vary across different population groups. The findings will provide evidence on the number of recorded cases of Long Covid in Wales, aiding understanding of the coding quality completeness and useability of data for future research.

Inequalities in severe health events following infection from Covid-19

This project will follow on from previous work that looked at health inequalities in Covid-19 deaths and hospital admissions in Wales. It will analyse admissions and deaths related to Covid-19 looking at what are the mediating factors for inequalities following Covid-19.

Evaluation of the Covid-19 vaccination rollout programme in Wales, and across the UK

This project aims to provide evidence on the coverage and timeliness of Covid-19 vaccinations. It will look at:

- Uptake disparities for Covid-19 and influenza vaccinations between 2020 and 2021.
- The risk of Covid-19 hospital admissions and deaths after Covid-19 autumn 2022 booster vaccinations.
- Associations with under-vaccination against Covid-19 in the summer of 2022 and subsequent risk of Covid-19 hospital admission and deaths.
- Trends in SARS-CoV-2 infection and vaccination in school staff, students, and their household members from 2020-2022 in Wales

Collectively, these questions will complement work taking place throughout the UK, which will aid monitoring and evaluation of vaccine equality.



Mental Health

The mental health of socio-economic, ethnic minority and underserved groups

This project will investigate disparities in access to services and mental health trajectories of socio-economic, ethnic minority and underserved groups.

Mental health and self-harming behaviours in pupils Educated in Other Than At School (EOTAS) in Wales

This project sets out to understand the mental health of EOTAS pupils. It will investigate both the diagnoses and symptoms of mental health and self-harm before and after being EOTAS and in comparison to a control group with comparable age, sex, and socioeconomic characteristics in Wales.

Risk of Suicide following School Absenteeism and Exclusion

This project seeks to understand the association between school absences and exclusions and suicide among young people in Wales.

Mental health and self-harm in prisoners in Wales

This project aims to understand the risk factors for self-harming behaviour of male prisoners in Wales. It aims to investigate mental health and behaviours before imprisonment and in a control group of men of matching age from the general population.

It will also investigate the relationship between mental health and behaviours- and the occurrence and severity of self-harm events recorded in prison.

Mental health and self-harming behaviours in University students in Wales

This project will look at the trajectories of students' mental health in Wales. It will look at both before and during university, and in comparison, to non-students in Wales.

This project aims to examine recent trends of depression and antidepressant prescribing over time.



Skills and Employability

Welsh Language and progression to Higher Education

Attracting and retaining graduates is critical to local and regional economic performance and as such, interest in the geography of graduate labour in the UK is growing. These issues are particularly pertinent in relation to Wales as the existence of a 'brain drain' of graduate labour from Wales has become a focus of recent debate.

This project aims to understand issues surrounding the progression of Welsh speaking students by asking questions such as:

- What factors are associated with progression to Higher Education?
- Which students are more likely to enter prestigious universities?
- Do these factors differ among those who are fluent in Welsh or have been schooled through the medium of Welsh?

Careers Guidance in Post-Compulsory Education Settings

The transition from compulsory education to work is becoming increasingly complex. As a result of previous work alongside the Welsh Government's Careers Wales careers guidance service, there is a detailed understanding of the provision of careers advice and guidance in school. However, little is known about the engagement of pupils in post compulsory education and training. This project will look to fill that evidence gap by asking questions such as:

- Who receives careers guidance during Key Stage 5?
- What is the nature of this provision and how does it vary between those in further education, those in sixth form settings and those taking academic versus vocational qualifications?

Widening participation in the tertiary education sector in Wales

Commissioned by the Wales Centre for Public Policy (WCPP), this project focuses on equality of opportunity and widening participation, retention and attainment across the tertiary sector in Wales. The project will support a greater understanding of influences on progression through, and attainment in, post-compulsory education by asking questions such as:

- What are the characteristics of learners over the age of 16 in Welsh Government funded institutions with respect to protected and supported characteristic and how are these protected characteristics associated with further progression through post compulsory education and training?
- How do these compare to those in the wider population?

Findings will contribute to the widening participation agenda evidence base and the work of the new Commission for Tertiary Education and Research.



Social Justice

Population inequalities in Wales

Using existing and new health, demographic and administrative data, this project aims create foundations from which future research on the characteristics of the Welsh population can be based. This work will help researchers to profile and categorise the population for future inequalities research.

Deprivation and chronic diseases

This project seeks to compare trajectories of chronic diseases by socio-economic status for the population of Wales. Researchers will seek to find out if individuals living in more deprived areas accrue diseases at a faster rate than individuals living in the least deprived areas.

Instances of assault among minority groups in Wales

This project will utilise health, demographic and survey data to investigate if people from minority ethnic groups, disabled people, LGBTQIA+, women and non-binary groups experience higher rates of assaults than other people in the population.

Health service utilisation in Wales

This project aims to create a desirable health service utilisation indicator to characterise the distribution of the population who survive and do not use the health service for activities people would wish to avoid. The project will look at what proportion of the population of Wales meet the criteria and how this varies with deprivation and protective characteristic groups.

Inequalities in career progression

This project will look at workers in Wales with the aim of identifying if it is possible to measure equity within progression pathways particularly by ethnic groups.

ADR Wales Partners



Llywodraeth Cymru
Welsh Government



Swansea University
Prifysgol Abertawe

Medical School
Ysgol Feddygaeth



ADR Wales brings together specialist teams, data science experts, and statisticians as part of the Economic and Social Research Council (part of UK Research and Innovation) funded ADR UK. Our team is made up of specialists in their field from Swansea University Medical School, the Wales Institute of Social and Economic Research and Data (WISERD) at Cardiff University and the SAIL Databank at Swansea University with statisticians, data scientists and social researchers from Welsh Government. Together ADR Wales develops new evidence which supports the Welsh Government's national strategy, Prosperity for All to improve the lives of people in Wales.

To find out more, visit ADRWales.org

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