suggests that class-based identities can also lead to density associations with mental health, but that it is the symbolic signifiers of class, and not material aspects, which activate class identities in this way.

P68 ANTIDEPRESSANT AND ANTIPSYCHOTIC DRUG PRESCRIBING AND COMPLICATIONS OF DIABETES: A SYSTEMATIC REVIEW OF OBSERVATIONAL STUDIES

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10.1136/jech-2021-SSMabstracts.156

Background The prescribing of antidepressant and antipsychotic drugs is increasing worldwide for a range of indications including mental ill-health. Numerous side effects have been associated with these drugs, including increased risk of cardiovascular complications. People with diabetes are more likely to be prescribed these drugs but few studies have investigated the effect of these drugs in this specific population. We therefore conducted a systematic review of studies that investigated the association between antidepressant and/or antipsychotic drug prescribing and vascular complications or mortality in people with diabetes.

Methods We systematically searched PubMed, EMBASE, and PsycINFO for observational studies examining the association between use of antidepressant and/or antipsychotic drug use and vascular disease (including cardiovascular disease and microvascular complications) and all-cause and cause-specific mortality among adults with type 1 or 2 diabetes. Secondary outcomes of interest included cardiometabolic risk factors. Data extraction was performed independently by two reviewers using standardised data collection forms.

Results Our search retrieved 9,833 articles, of which 13 were included in the review. Studies were heterogeneous in design, population, and outcomes. Six studies were cohort design, two were case control, and five were cross-sectional. Some studies included an unselected population and others included only people with particular mental illnesses or excluded people with mental illness. Six studies reported on vascular complications, six studies reported on cardiometabolic risk factors (including glycaemic control), and one study reported on both vascular complications and cardiometabolic risk factors. Study population size ranged from 265 to 241,787. Whilst study heterogeneity makes comparability difficult and findings were mixed, there was some evidence that antidepressant and antipsychotic drugs may lead to a reduced risk of cardiovascular morbidity, possibly more so among women than men. There was also evidence that antidepressant use may lead to a reduced risk of diabetic retinopathy in women. There was evidence that antidepressants can lead to improved glycaemic control among people with depression, but there may be an increased risk of hospitalisation for hyperglycaemia in people using antipsychotics.

Conclusion Few studies have examined the effect of antidepressant and antipsychotic drugs on complications of diabetes, with mixed findings reported. These drugs may have a protective effect potentially mediated by their therapeutic effects on mental health and adherence to lifestyle advice and other treatment. It is also possible that there is effect modification by sex, with some protective effects observed

in women but not in men. More research on this topic is required.

P69 A COMPREHENSIVE SYSTEMATIC REVIEW AND MULTILEVEL META-ANALYSIS OF THE ETHNIC DENSITY EFFECT IN PSYCHOSIS

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10.1136/jech-2021-SSMabstracts.157

Background An ethnic density effect in psychosis has been observed whereby the risk of psychosis in minority group individuals is inversely related to the neighbourhood-level proportion of others belonging to the same group. However, there is conflicting evidence over whether this effect differs between minority groups and limited investigation into other moderators. We aimed to conduct a comprehensive systematic review and meta-analysis of the ethnic density effect in psychosis and examine moderators.

Methods Four databases were systematically searched. A narrative review was conducted, and a three-level meta-analysis was performed. The potential moderating effect of crudely and specifically defined minority groups was assessed. Country, time, area size, and whether studies used clinical or non-clinical outcomes were also tested as moderators.

Results Thirty-two studies were included in the narrative review and ten in the meta-analysis. A ten percentage-point decrease in own-group density was associated with a 20% increase in psychosis risk [OR=1.20 (CI_{95%}=1.09–1.32), $p<0.001$]. The pooled effect was moderated by crudely defined minority groups [$F_{6,68}=6.86$, $p<0.001$], with the strongest associations observed in Black populations, followed by a White Other sample. Greater heterogeneity was observed when specific minority groups were assessed [$F_{25,49}=7.26$, $p<0.001$].

Conclusion This is the first review to provide meta-analytic evidence that the risk of psychosis posed by lower own-group density areas is not equally distributed across minority groups. The most robust associations were observed in Black individuals. Heterogeneity in effect sizes may reflect distinctive social experiences of specific minority groups. Mechanisms are discussed, along with the implications of findings and suggestions for future research.

P70 SUBSTANCE USE AMONG SEXUAL MINORITIES IN THE USA – LINKS TO SOCIOECONOMIC VULNERABILITY AND UNMET NEED FOR MENTAL HEALTH TREATMENT

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10.1136/jech-2021-SSMabstracts.158

Background Sexual minority groups (SM) have specific substance use patterns that remain widely unknown. We investigated the potential association between substance use among SM adults in the United States (USA) and social inequality, with an additional focus on disparities in unmet need for mental health treatment.

Methods A secondary cross-sectional data analysis was performed using National Survey on Drug Use and Health (NSDUH) data from 2015 to 2017 and including 126,463 individuals with 8,241 identifying as SM. The NSDUH is an annual, nationally representative survey of the civilian, non-institutionalised US population aged twelve or older which estimates the prevalence and associated determinants of substance use and mental illness. Multivariable logistic regression models were used to quantify disparities in substance use among SM and to examine its link with sociodemographic factors and mental health.

Results SM showed higher levels of past-year substance use, misuse of prescription drugs and lifetime chemsex drug use relative to heterosexuals. Gay men showed the highest level of chemsex drug use. Bisexual women exhibited higher levels of use of cocaine, crack, heroin, methamphetamine and misuse of benzodiazepines relative to heterosexual women. Among women, lesbians showed higher odds for use of chemsex drugs and misuse of Oxycontin. Urbanity, being uninsured, and having an unmet need for mental health treatment were associated with significantly higher levels of substance use, including chemsex drug use. SM also experienced significantly higher levels of socioeconomic vulnerability, which were associated with increased odds for drug use.

Conclusion This study is among the first nationally representative samples that analysed the link between sociodemographic factors and unmet need for mental health treatment on substance use among SM. It emphasises the multifactorial aetiology of vulnerability to substance use and highlights the distinct disparities in, and underlying mechanisms for substance use among SM. Higher levels of substance use and misuse observed among SM have public health implications due to the negative health outcomes they may involve in the long-term. Of particular interest is the link established between substance use and mental health issues, considering the lack of tailored approaches aimed at addressing comorbidities and specific health needs of SM, especially given the structural barriers (i.e., stigma, discrimination and criminalisation of substance use) those populations face in accessing health services. Critical gaps in the literature remain and large-scale studies inclusive of SM individuals are needed to establish causal links.

P71 LONELINESS AND PERSONAL WELLBEING IN YOUNG PEOPLE: THE MODERATING EFFECTS OF SOCIAL WELLBEING AND SOCIO-DEMOGRAPHIC FACTORS

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10.1136/jech-2021-SSMabstracts.159

Background Loneliness a growing public health concern. This is particularly so in light of the Covid-19 pandemic which has highlighted the detrimental psychosocial consequences of loneliness. Loneliness is a particularly pervasive problem among young adults, but despite this, most research examining loneliness is among older adults. Loneliness is a known risk factor for poor health and personal wellbeing. However, the extent to which other aspects of social wellbeing (e.g., isolation, social support) may mitigate the relationship between loneliness and personal wellbeing is unclear. Loneliness is often

used interchangeably with related, yet distinct aspects of social wellbeing, such as isolation. Therefore, it is difficult to differentiate factors that relate to loneliness, factors that relate to other components of social wellbeing, and the possible interactions between these constructs. Consequently, we aim to examine the interplay of loneliness and isolation on personal wellbeing.

Methods We make use of cross-sectional sample of 965 young people aged 16–24 from the 2018 wave of the Community Life Survey to conduct regression-based analyses. This allows us to evaluate for a direct effect of loneliness on personal wellbeing, and for an interaction effect between loneliness and isolation to determine if the presence of both loneliness and isolation is predictive of poorer wellbeing. Finally, we use moderated regression to assess whether individual, social, and community level factors influence the relationship between loneliness and personal wellbeing.

Results Preliminary results identify that loneliness is consistently associated with poorer personal wellbeing among young people. Isolation neither predicts wellbeing, nor moderates associations between loneliness and wellbeing. Factors such as trust in one's neighbourhood, not acting as a carer, and being a fulltime student were associated with greater wellbeing. At the individual level, a moderating effect of sex was found, and social factors (e.g., being able to count on friends) moderated the association between loneliness and wellbeing.

Conclusion Results suggests that the presence of both loneliness and isolation does not increase risk of poor personal wellbeing among young people. Rather, the subjective experience of loneliness is independently detrimental to wellbeing. Our results also identified that being of female gender was associated with increased risk of loneliness impacting on personal wellbeing, but that strong emotional support may act as a protective factor against loneliness, and therefore improve personal wellbeing. It is also important to foster community trust and engagement to improve wellbeing, and that young people with caring responsibilities may be particularly at risk of low personal wellbeing.

P72 ONLINE GAMING AND WELL-BEING IN THE ENGLISH LONGITUDINAL STUDY OF AGEING

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10.1136/jech-2021-SSMabstracts.160

Background Play and games are considered important contributors to healthy ageing; however, it is not clear how online gaming contributes to this association. We aimed to explore the impact of online gaming on older adult well-being.

Methods Using data from 3,067 participants aged 50 years and older from the English Longitudinal Study of Ageing, we performed multiple regressions and logistic regressions to assess the association between online gaming at (wave 6, 2012/13) and quality-of-life, loneliness, and depression at (wave 9, 2018/19) over a follow up of up to 7 years. Quality-of-life was assessed using the CASP-19 scale, loneliness was assessed using the UCLA Loneliness scale, and depression was assessed using the Centre for Epidemiologic Studies Depression Scale. Adjustment for covariates was carried out gradually: Model 1 adjusted for age, sex and marital status, model