PP34 Impact Of The COVID-19 Pandemic On Depression Incidence And Healthcare Service Use Among Patients With Depression

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Introduction: Most studies on the impact of the COVID-19 pandemic on depression burden focused on the earlier pandemic phase specific to lockdowns, but the longer-term impact of the pandemic is less well studied. In this population-based cohort study with quasi-experimental design, we examined both the short-term and long-term impacts of COVID-19 on depression incidence and healthcare service use among patients with depression.
Methods: Using the territory-wide electronic medical records in Hong Kong, we identified patients with new diagnoses of depression from 2014 to 2022. An interrupted time-series (ITS) analysis examined changes in incidence of depression before and during the pandemic. We then divided patients into nine cohorts based on year of incidence and studied their initial and ongoing service use until December 2022. Generalized linear modeling compared the rates of healthcare service use in the year of diagnosis between patients newly diagnosed before and during the pandemic. A separate ITS analysis explored the pandemic impact on the ongoing service use among preexisting patients.
Results: There was an immediate increase in depression incidence (RR=1.21; 95% CI: 1.10, 1.33; p<0.001) in the population since the pandemic with a nonsignificant slope change, suggesting a sustained effect until the end of 2022. Subgroup analysis showed that increases in incidence were significant among adults and the older population, but not adolescents. Depression patients newly diagnosed during the pandemic used 11 percent fewer resources than the prepandemic patients in the first diagnosis year. Preexisting depression patients also had an immediate decrease of 16 percent in overall all-cause service use since the pandemic, with a positive slope change indicating a gradual rebound.
Conclusions: During the COVID-19 pandemic, service provision for depression was suboptimal in the face of greater demand generated by the increasing depression incidence. Our findings indicate the need to improve mental health resource planning preparedness for future public health crises.

PP35 Keeping It Real Around The World: Comparing Real-World Evidence Guidance From Regulatory And Health Technology Assessment Bodies

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Introduction: The growing use of real-world evidence (RWE) in pharmaceutical decision-making has prompted various guidelines, including REALISE (REAL World Data In ASia for HEalth Technology Assessment in Reimbursement). We compared RWE guidance from Asian, European, and North American health technology assessment (HTA) and regulatory bodies against the REALISE guidance.
Methods: Following a previous search for China/Japan guidelines in 2022, websites of the U.S. Food and Drug Administration (FDA), the National Institute for Health and Care Excellence (NICE), the European Medicines Agency (EMA), and the Canadian Agency for Drugs and Technologies in Health (CADTH) were searched for RWE guidance in May 2023. Sections from each guidance were mapped onto REALISE and categorized as "agree," "mixed," "disagree," or "missing" based on coverage/consistency.
Results: Eleven guidelines were identified: four from Japan, three from China, and one each from FDA, NICE, EMA, and CADTH. No disagreements were found (all mapped sections were tagged "agree"/"mixed"); divergences were in coverage only. Most regulatory guidance had narrower scopes: EMA covered registry-based studies, the FDA's framework mainly referenced other documents, while Japan had guidance for database and registry data. Conversely, HTA guidelines (CADTH, NICE) were more comprehensive and provided specific recommendations on preferred methods (e.g., transparent reporting) that were "missing" (45 to 46%) from REALISE's more conceptual discussions. Chinese regulatory guidance was the exception, with similar coverage as REALISE (77% "agree"/"mixed").
Conclusions: Guidelines varied in scope, but there was overall concordance where recommendations could be mapped across documents. While regulatory bodies could focus on specific types of RWE, reflecting the specific role of RWE in regulatory evaluations (for example demonstrating safety), guidance for HTA was broader to account for different possible use cases in demonstrating comparative effectiveness and value.

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