

Mental health and substance use is a rising issue in British Columbia. The Ministry of Health has mandated 5 regional health authorities to collect and submit data through an information platform called Mental Health and Substance Use Minimum Reporting Requirements (MHA MRR). A health service delivery system is established to effectively and efficiently meet client and population health needs at the local, regional and provincial levels. In this report, we have conducted literature reviews on analyzing the Health of the Nation Outcome Scales (HoNOS), and tried to assess the internal consistency, reliability and validity of these instruments. Predictive models and machine learning methods have been proposed to perform cross sectional analysis and explore the relationship between mental illness and health determinants. Business intelligence tools are used to create interactive map-based dashboards and keep track of regional and temporal trends for health