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Psychologic effect of Covid-19 and psychiatric adverse effects of corticosteroids, Is there any relation between neuropsychiatric effects of Covid-19 and use of corticosteroids? : A narrative review

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Background and Aim : Corona virus disease or covid-19 is a type of acute respiratory syndrome which caused by a virus of corona family. This disease spread worldwide in a short time and has already affected huge number of people (more than 85 million people) and caused greater than 1.8 million deaths around the world since the first case confirmed in Wuhan china. Although the relation between anxiety, stress and Covid-19 is undeniable but the direct effect of SARS-COV-2 (severe acute respiratory syndrome coronavirus 2) on the central nervous system is still unknown. Coronavirus is also known to have potential neurotrophic effects and has serious psychiatric outcomes. During the pandemic corticosteroids used as first-line therapy regarding to their effects on hyperinflammatory immune response. However, corticosteroids associated with various psychological adverse effects from mild changes in mood to psychotic symptoms.

Methods : By searching the keywords corticosteroids, Adrenal Cortex Hormones, psychological, psychiatry, adverse effects, complications, and covid-19 in Google Scholar and PubMed databases. Our search strategy identified articles containing at least 1 medical subject headings (MeSH terms) from each of 3 categories: 1-Articles that, in addition to the psychological side effects of corticosteroids, the time period of use to cause side effects and the duration of the psychological side effects that can cause 2-Articles that refer to the psychological effects of covid-19 from 2019 3-Articles that may have made a connection between the effects of covid and corticosteroids.

Results : Psychiatric adverse effect of corticosteroids, 34 articles were found which include corticosteroid induced psychiatric adverse effects. different psychiatric conditions, such as insomnia, depression, delirium, and psychosis, happened during steroid therapy . Also, there were