

## Incidence of Post-Stroke Depression in a Tertiary Hospital in Cebu City, Philippines

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**Abstract :** Background: Depression is common after stroke with quoted rates ranging from 18% to 61%. 8 Mood disturbance is common after stroke and may present as depression or anxiety. Psychological mood disturbance is associated with higher rates of mortality, long term disability, and hospital readmission. Objectives: To investigate the incidence of post-stroke depression in a tertiary hospital in Cebu City, Philippines and to determine its associated factors. The study is designed to be prospective, descriptive, cross-sectional survey. Participants: Adult patients seen and diagnosed to have stroke either infarct or hemorrhage within the period of January 1 to July 31, 2014. Results: A total of 100 patients with stroke were interviewed using the 17-item Hamilton Depression Rating Scale (HDRS) questionnaire. The average age of the respondents was 60.50 years old  $\pm 1.18$ , majority were males (55%), 83% were married, and 81% were employed. The most common co-morbidity was hypertension 78% followed by diabetes mellitus at 50%. Moreover, 39% of these patients had stroke in months, 26% in years, and 18% in weeks. The average functional capacity based on Modified Rankin Scale was 2.14 $\pm$ 0.14. Among 100 patients, a total of 30 patients (30%) had depression: 2 (2%) very severe, 5 (5%) moderate and 23 (23%) had mild depression while 70 patients (70%) had no depression. Stroke located at the dominant hemisphere was not associated with severe depression ( $p=0.102$ ). A similar trend was also noted among those with stroke at the right side ( $p=0.183$ ), pons ( $p=0.634$ ), bilateral ( $p=0.776$ ), and midbrain ( $p=0.336$ ). Conclusion: This study showed that majority of stroke patients were males with average age of 60.50 years. Hypertension was the most common co-morbidity. There was no association between stroke location and depression. The incidence of PSD was 30%.

**Keywords :** post-stroke depression, co-morbidity, disturbance, bilateral

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