

second month after ischemic stroke, and 10 patient with ischemic stroke had the shoulder pain in the third month post stroke, one ischemic stroke patient in the 4<sup>th</sup> and one patient in the fifth month. No ischemic stroke patient in the study developed the shoulder pain in the 6<sup>th</sup> month post stroke. (Table 3)

In hemorrhagic stroke; one patient had the shoulder pain in the first month, 10 patients in the second month, 10 patients in the third month, 4 patients in the fourth month, one patient in the fifth month and one patient in the sixth month after hemorrhagic stroke (Table 3).

Right-sided weakness was seen in 13 out of 29 patients with ischemic stroke (44.8%) the right-sided weakness was seen in 12 out of 27 (44.4%) patients with intra cerebral hemorrhage. (Table 4)

Left-sided weakness was seen in 16 out of 29 patient with ischemic stroke (45.6%) and seen in 15 out of 27 who had intracerebral hemorrhage (55.6%) (Table 5).

Fifteen of the patients with ischemic stroke have grade 0-1 shoulder muscle power 12 patients have grade 2-3 and 2 patients have grade 4 shoulder muscle weakness. Those with hemorrhagic stroke, 17 patients having grade 0-1, 5 patients having grade 2-3 and 5 patients having grade 4 shoulder muscle power (Table 6) .

Aphasia was found in 21 out of 25 patients those with right sided weakness, Abnormalities of cortical sensory functions (astereognosis, sensory inattention and graphesthesia) was seen in 27 patients out of 31 patients with left sided weakness. (Table 7)

Twenty three patients were diagnosed as frozen shoulder; 20 patients were diagnosed as referred pain from other sites (neck, elbow); 5 patients had direct trauma to the shoulder by fall on ground; 4 patients had shoulder subluxation and 4 patients had rotator cuff syndrome (Table 8).

**Table 1: male/female ratio having shoulder pain in ischemic and hemorrhagic stroke.**

	Ischemic stroke.	Hemorrhagic stroke.	Total
male	12	17	29
female	17	10	27
total	29	27	56

P= 0.17 no significant

**Table 2: classification of the patients according to age groups**

≤ 30 years	31- 40 years	41 – 50 years	51 – 61 years	> 60 years
1	3	10	19	23
1.7%	5.3	17.8%	33.8%	41.1%

P= 0.0001 significant