

INDIAN SCENARIO OF SIGNIFICANT CAROTID ARTERY STENOSIS WITH STROKE OR TIA: TREATMENT MODALITY RATE AND THREE YEARS MORTALITY COMPARISON BETWEEN MEDICAL VERSUS STENTING OR SURGERY.

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BACKGROUND:

Patients with symptoms of stroke or transient ischemic attack (TIA) attributable to a significantly stenotic vessel (>70% narrowed luminal) should be treated vigorously.

Symptomatic carotid artery disease is a significant cause of ischemic stroke and these patients are at high risk for recurrent vascular events.

Objectives-

Our aim is to assess the admission rate, treatment modality rate like medical therapy, carotid stenting and surgery in India and also to increase awareness of ideal modality of management.

METHODS:

We enrolled 455 cases of stroke or TIA with significant carotid artery stenosis . Our retrospective study was done at multi-centres of north and south india. We divided three groups , (A)- Medical Therapy, (B)- Carotid Stenting and (C)- Surgery Carotid Endarterectomy. We noticed to statistical or data analysis department for mortality comparison between medical versus carotid stenting or surgery after three years follow up.

RESULTS:

Our study found after diagnosis of significant carotid artery stenosis , 23% cases denied for admission due to financial issues , 77 % cases were admitted and offered for carotid stenting(CS) or carotid endarterectomy (CEA) but 20% cases were ready for that (11% for CS and 9% for CEA) and rest of 57% cases were agreed for intensive medical therapy.

Data revealed mortality at 30 days among different three groups A, B & C (7.85, 2.2% vs 4.5%; P <0.04) . At three years follow up mortality difference found among different three groups A, B & C (27.8, 6.4% vs 9.6%; P <0.03) . Recurrent stroke was significantly higher in medical than interventional or surgical group during three years of study.

CONCLUSION:

Study showed that less numbers of patients were enrolled for carotid stenting or CEA while more cases should be for that. Medical therapy had higher mortality and recurrent stroke rate as compare to other two groups however carotid stenting was little superior than CEA.

Keywords- Medical Therapy, Carotid Artery Stenting, Carotid Endarterectomy, Ischemic Stroke.