Efficacy and Complications of Thrombolytic Therapy in different age groups of Acute Myocardial Infarction Patients

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Heparin and streptokinase are widely used as a routine thrombolytic therapy in hyper acute stage of myocardial infarction acute myocardial infarction

(AMI).

Studies such as ISIS-¹ and ISIS-⁷ have reported a decrease in mortality.

Thrombolysis carries some complications too. We studied the efficacy, complications and mortality rate of thrombolytic therapy in different age groups of 9A AMI cases.

Method:

 (Λ) consecutive cases of hyper acute myocardial infarction admitted between (1999) up to (\cdot, \cdot) were included. We compared the immediate clinical effects complications and mortality rate through this retrospective study. Data of variables were extracted from hospital case record and analyzed by standard research methodology. Chi (\cdot) test was used for comparison.

Result:

Overall in hospital mortality in young cases was $\circ. \varepsilon\%$ in comparison to $\gamma\gamma.\gamma\%$ in old patients cases. Immediate effect as angina relief with in γ . minutes was found in $\gamma\lambda.\varepsilon\%$ of young casess vs. $\gamma\lambda.\gamma\%$ in old patients (P= $\cdot.\cdot\circ$).

Normalization of ST segment in electrocardiogram was found in 70.0% of young casess vs. 7..% in old patients. Drug allergy was found 7.% in young vs 7.% in old. Intracranial hemorrhage did not occur in young casess vs. 1.% in old patients.

Internal bleeding occurred in 7.% of young casess vs. $\circ.\circ\%$ in old patients (P= $\cdot.\cdot\circ$).

was found in $7 \le .7\%$ of young cases vs. 77.7% old patients suffered Arterial hypotension (P=•.••^).

Congestive heart failure was found in 7.7% of young cases $vs^{\Lambda}.\%$ in old patients (P=•...°).Cardiogenic shock was found in 7.7% of young cases vs. 11.7% in old patients (•...).

Sudden death was witnessed in $^{.}$ % of young cases vs. $^{.}$ % in old patients. CPR was successful in $^{.}$ % in young cases vs. nil in patients of $^{.}$ years and older(P·<··).

Conclusion:

This study revealed the significant difference in the effects and complications of thrombolytic therapy between young cases and old patients, and suggests that young patients of acute myocardial infarction got more benefits than old patients.

Angina relief within \mathfrak{q} minutes was achieved more frequently in young patients.

Except the allergic reaction, all the side effects and complications were more in elderly than young patients. Incidence of witnessed cardiac arrest and CPR applied was higher in old cases than young AMI patients leading to a higher mortality rate among old patients receiving streptokinase in our center. Thrombolitic therapy was highly successful with least complications in young patients.