

## THESIS ABSTRACT

**Name:** Dr. V. LOKESH KUMAR

**Title:** “ANALYSIS OF HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR -2 EXPRESSION IN GASTRIC ADENOCARCINOMA”

**Period of study:** July 2014 - June 2016

**Institution:** Govt. Kilpauk Medical College, Chennai

**Background:** Gastric carcinoma is the fourth most common cancer in the world. It is a disease of elderly and more common in males. The poor prognosis of gastric tumour is due to late presentation, nonspecific symptoms and limitations in treatment options. An association between clinicopathological features and molecular markers would give a clue toward the relationship between them and hence provide us an extra tool to combat the high mortality.

**Methods:** A retrospective study was conducted in 100 patients with histopathologically proven gastric adenocarcinoma. In this study, expression of Immuno histochemical marker HER -2 in gastric adeno carcinoma was analysed and compared with various clinicopathological markers.

**Results:** Her -2 Overexpression was seen in 25% of total cases. Positivity for HER-2/Neu was present in 52% of moderately differentiated tumours, 28% of well differentiated tumours and 20% of poorly differentiated tumours

**Conclusion:** Statistically significant correlation was found out between Her -2 receptor over expression and different histological grades of gastric adenocarcinoma. Her- 2 receptor over expression is more common in well and moderately differentiated tumours than poorly differentiated tumours.

**Key words:** gastric adenocarcinoma, Her -2, immunohistochemistry