

ABSTRACT

AIM :

THE OBJECTIVE OF THIS STUDY IS TO ASSESS THE EFFICIENCY OF SERUM LACTATE DEHYDROGENASE AS A BIOCHEMICAL MARKER IN HEAD AND NECK SQUAMOUS CELL CARCINOMA.

MATERIALS AND METHODS:

THE STUDY WAS CONDUCTED IN HISTOLOGICALLY CONFIRMED CASES OF HEAD AND NECK SQUAMOUS CELL CARCINOMA, IN DEPT OF ENT , MADURAI MEDICAL COLLEGE. HEAD AND NECK CANCER IS MOST PREVALENT IN MEN THAN WOMEN DUE TO ALCOHOL AND TOBACCO CHEWING AND IS MORE IN DEVELOPING COUNTRIES LIKE INDIA. THIS MAKES THE NEED FOR A EASY AND SIMPLER TEST THAT SUGGEST CANCER QUITE EARLY BEFORE PATIENT BECOMES SYMPTOMATIC AND THAT CAN ALSO BE DONE DURING ROUTINE VISIT TO HEALTH CARE FACILITY AT AN AFFORDABLE COST. THE STUDY INCLUDED PATIENTS HISTOLOGICALLY PROVEN TO BE HNSCC, AGE \geq 30 YEARS, CONSENT FOR THE STUDY. AGE $<$ 30 YEARS, CO-MORBID CONDITIONS, CARCINOMA SKIN AND THYROID, CARCINOMA IN SITU WERE EXCLUDED FROM THE STUDY. HISTORY TAKING, CLINICAL EXAMINATION WERE DONE. SERUM LACTATE DEHYDROGENASE WAS ESTIMATED IN PRE TREATMENT AND POST TREATMENT PHASE .

RESULTS:

DATA ANALYSIS FROM THE STUDY SHOWED THE FOLLOWING FACTS .a] serum LDH is consistently elevated in HNSCC irrespective of the site of origin. b] serum levels also correlate with the histological grade of malignancy. c] the serum levels also correlate with the disease load of the patient. d] LDH level also decrease to normal range in patients after treatment irrespective of modality of treatment. e] also used to follow up patient to detect recurrences.

KEY WORDS

SERUM LACTATE DEHYDROGENASE, SQUAMOUS CELL CARCINOMA, METASTASIS, RADIOTHERAPY.