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## Assessment of Cox2 and CMV in patients with chronic HCV infection

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### Abstract

**Objective** This study was established to determine the expression of COX-2 and CMV in patients with chronic C infection.

**Methods** A total of 30 formalin-fixed of paraffin-embedded liver samples obtained from patients with chronic hepatitis C infection. In addition, 30 apparently normal liver autopsies were used as control group used for immunohistochemistry technique (IHC) to study the expression of cyclooxygenase (COX-2) and cytomegalovirus (CMV) in these samples.

**Results** In current study, the results of expression of COX-2 were found in 25 cases (83.3%) of chronic HCV were strongly positive with a significant increase at  $P < 0.001$ , while the result of CMV expression was detected as brown cytoplasmic membranous staining of cells with positive CMV expression demonstrated in 21 (70.0%) out of 30 cases of chronic HCV infection cases. All control groups were negative for the expression of COX-2 and CMV.

**Conclusion** This study concludes that COX-2 and CMV participates in the pathogenesis of chronic HCV infection.

### Keywords

**Author Keywords:** chronic HCV infection; cyclooxygenase (COX-2); cytomegalovirus (CMV)

**KeyWords Plus:** CHRONIC HEPATITIS-C; HUMAN CYTOMEGALOVIRUS COINFECTION; INTERFERON-ALPHA; VIRUS-INFECTION; LIVER-DISEASE; CYCLOOXYGENASE-2; EXPRESSION; THERAPY; TRANSPLANTATION; REPLICATION

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