

# Evaluation of the Utility of Prognostic Models for Patients Diagnosed with Peri hilar Cholangiocarcinoma

Nichola Manu

Aintree University Hospital, Liverpool

## Abstract

**Background:** Several potential prognostic models have been developed to stratify patients with peri-hilar cholangiocarcinoma (PHC) by Overall Survival (OS). The objective of this study was to evaluate the utility of these models in determining prognosis for all patients presenting to a tertiary treatment centre with PHC. **Methods:** Three hundred and two patients diagnosed with PHC referred to a regional tertiary referral centre between 2008 and 2019 had their demographic and survival data retrospectively analysed from a prospectively held database linked to Hospital Episode Statistics and Somerset Cancer Registry data. Univariate and multivariate modelling was utilised to determine significant prognostic variables. Concordance Indices were constructed for the prognostic models to determine internal validity within the cohort. **Results:** Multivariate analysis demonstrated that: pre-interventional ECOG status ( $p<0.001$ ); serum albumin ( $p<0.001$ ); bilirubin levels ( $p<0.001$ ); CA 19-9 levels ( $p<0.001$ ) and resectional status ( $p<0.001$ ) were significant predictors of OS. Concordance indices demonstrated the predictive performance of the prognostic models for stratifying patients by OS in this cohort were poor. **Conclusions:** The predictive performance of several prognostic models for OS have poor utility. Simple serological markers may provide better prognostic indication of OS.

**Received:** June 2, 2022; **Accepted:** June 7, 2022; **Published:** June 13, 2022

## Biography

Mis Nichola Manu has an MBChB from University of Liverpool and is a member of the Royal College of

Surgeons of Edinburgh. Miss Manu has published 16 peer reviewed articles and has been awarded the NIHR 'Rising Research Star' 2020.