# Is the lymph node ratio a relevant prognostic score neo-adjuvant chemotherapy for pancreatic cancer?

Pandé R, Hodson J, Chatzizacharias NA, Sutcliffe RP, Bartlett D, Dasari B, Marudanayagam R, Mirza D, Isaac J, Roberts KJ Liver Unit, University Hospitals of Birmingham, UK

## Background

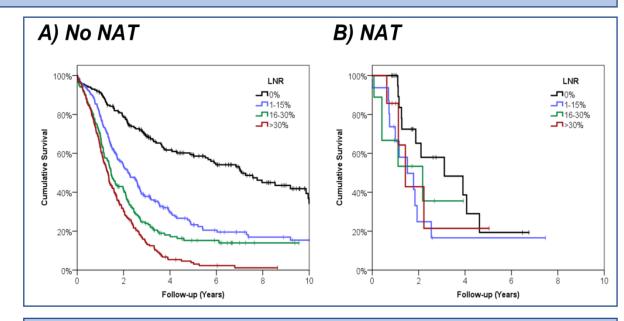
Lymph node ratio (LNR) is a strong prognostic marker in pancreatic cancer (PDAC). In recent years, use of neoadjuvant chemotherapy (NAT) has increased, where it is associated with a higher rate of NO resections, compared with a surgery first approach. The prognostic accuracy of the LNR after NAT has not been assessed.

#### Methods

- · Retrospective review of prospectively collected data from 2008-2020 of all patients undergoing pancreaticoduodenectomy (PD) for PDAC.
- Basic demographics, pathological and clinical outcomes were analysed using standard statistical tests.
- Cox regression and Kaplan-Meier analyses were performed.

#### Results

- N= 891 patients underwent PD
- 57 (6.4%) received NAT, the majority of whom received FOLFRINOX (83%).
- Patients receiving NAT had significantly fewer positive nodes (median 1 vs. 3, p=0.001) and, subsequently, significantly lower LNRs (median 5% vs. 16%, p<0.001) than those that did not receive NAT.



 No significant association between LNR and overall survival was observed for patients receiving NAT, compared to those that did not receive NAT, where the prognostic value was retained

### Conclusion

NAT reduces the predictive accuracy of the LNR in resected pancreatic cancer; alternative prognostic models will require development.





