**Supplementary materials**



**Fig. S1** Restricted cubic spline curve for association between DBIL, TBIL and the risk of POMC. (A) unadjusted model of DBIL; (B) adjusted model of DBIL; (C) unadjusted model of TBIL; (D) adjusted model of TBIL. Adjustments were made for MC history, MGFA, Lung function, Bulbar symptoms, Surgical approach.



**Fig. S2** The proportion of IBIL and DBIL in TBIL. (A) TBIL was categorized into five centiles; (B) Exceed the upper limit of normal (TBIL, 20.5 μmol/L).