



Supplementary Fig. 2. Effect of adjuvant treatment in R1 patients according to tumor location. For R1 patients with perihilar cholangiocarcinoma (PHC), (A) adjuvant chemotherapy (CTx) and (B) radiation therapy (RTx) improved 5-year overall survival (5YSR). For R1 patients with distal bile duct cancer (DBC), (C) CTx and (D) RTx improved 5YSR.