FOLFIRINOX as a first-line chemotherapy for patients with advanced biliary tract cancer



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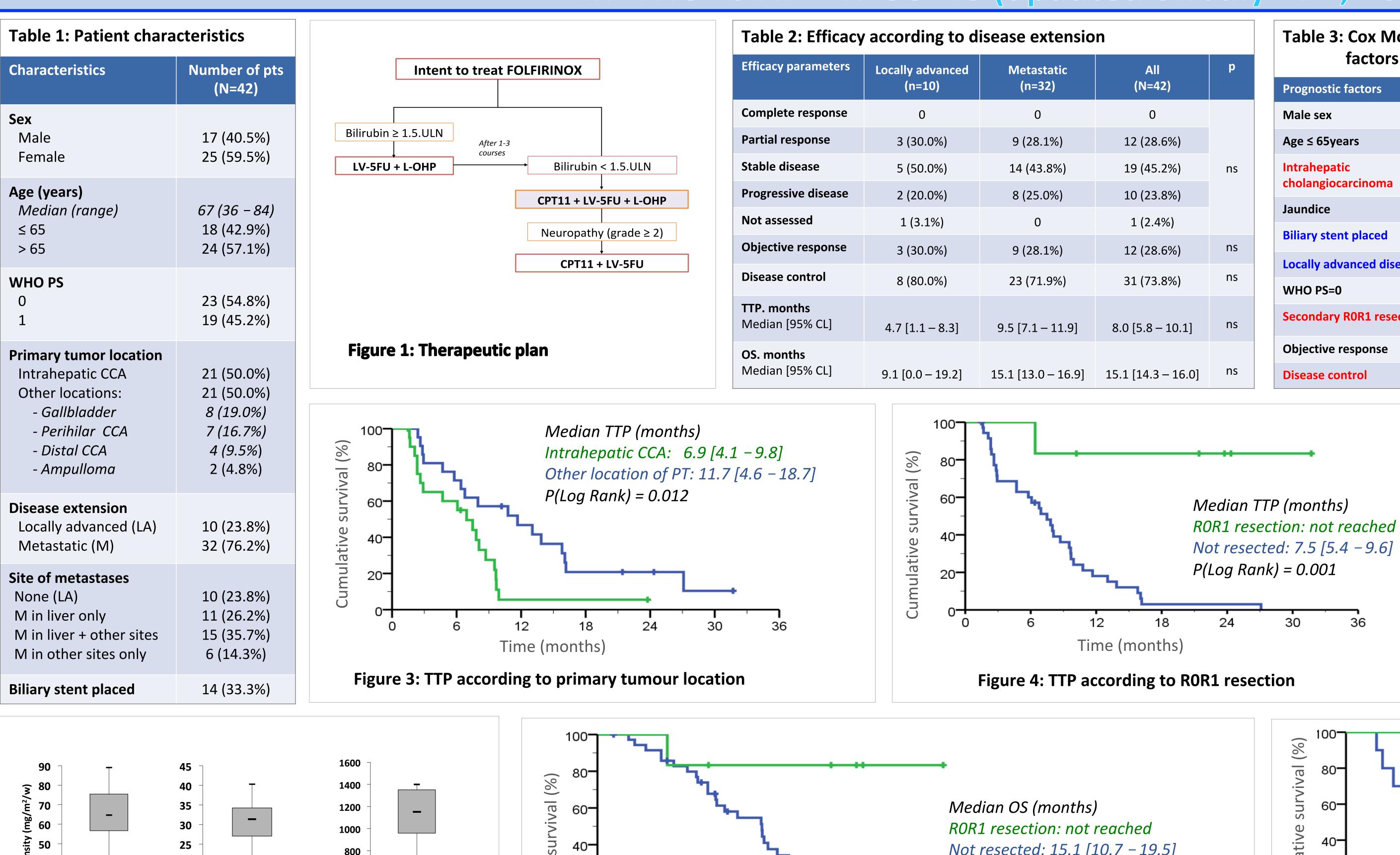
ABSTRACT

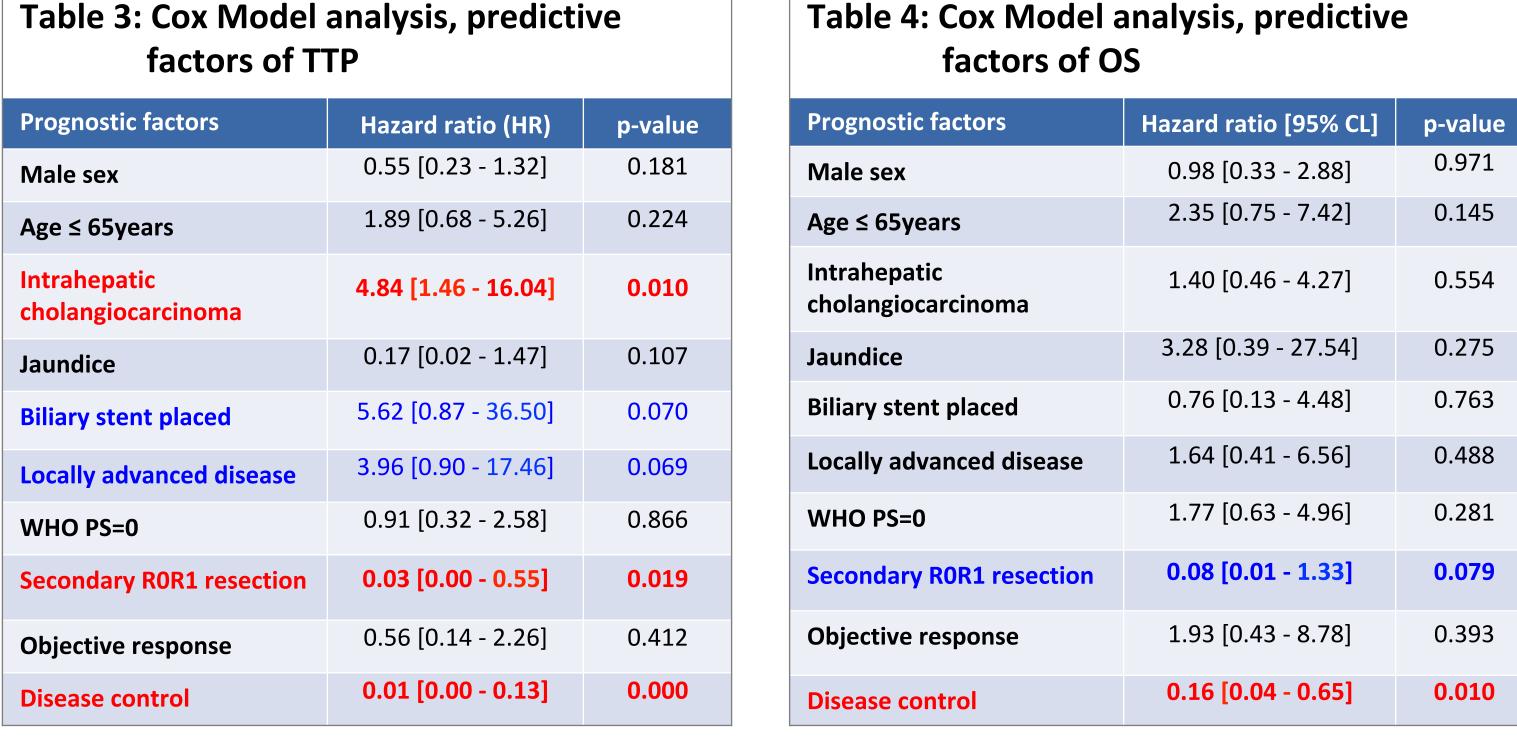
Background: FOLFIRINOX is a first-line regimen in the treatment of pancreatic cancer. Historically, BTC and pancreatic cancers were treated similarly with gemcitabine alone or combined with a platinum compound. A growing body of evidence supports the role of fluoropyrimidines in the treatment of BTC. Methods: We retrospectively analyzed data of all our pts with locally advanced (LA) or metastatic (M) BTC who received FOLFIRINOX as a first-line therapy from 12/2013 to 11/2017 at Paul Brousse university hospital. The main endpoints were OS, TTP, ORR, DC, secondary resection and toxicity. **Results:** There were 42 pts, 17 male (40%) and 25 female (60%), aged 36 to 84 years (median: 67). Pts had PS of 0 (55%) and 1 (45%). They had intrahepatic cholangiocarcinoma (iCCA) (21 pts, 50%), gallbladder carcinoma (8 pts, 19%), perihilar CCA (7 pts, 17%), distal CCA (4 pts, 10%) and ampulloma (2 pts, 5%). No biopsy could be obtained in 2 pts. BTC was LA or M in 9 (21%) and 33 pts (79%) respectively. Biliary stent was placed in 14 pts (33%). A median of 10 courses was given with median treatment duration of 6 months (mo). At the cutoff on 01/01/2018, regimen was ongoing in 7 pts (18%). Median dose intensity was 74, 34 and 1150 mg/m2/w for irinotecan, oxaliplatin and 5FU respectively. The most common nonhematological toxicity was sensory neuropathy: grade 1/2 in 15 pts (36%), no grade 3/4. We observed 15 PR (36%), 16 SD (38%), and 10 PD (24%); 1 pt has not been evaluated yet for efficacy. Fifteen pts (36%) were alive, 24 pts (57%) died, 3 pts (7%) were lost to follow-up. Four out of 5 pts who underwent resection were alive without disease. At a median follow-up time of 12 mo (1 to 26), median TTP was 9 mo [95%CL, 5 – 12] and median OS was 15 mo [14 – 16]. Median TTP was better for LA (not reached) as compared to M (8 mo), p=0.05; OS was statistically similar. Median TTP was worse in pts with iCCA as compared to other primaries (7 mo [4 - 10] vs 14 mo [9 - 19], p=0.005); OS was not significantly different. ORR and DC were associated with both better TTP and OS. ORR: TTP (median, 16 vs 5 mo, p<0.001), OS (median, 19 vs 11 mo, p=0.010); DC: TTP (median, 10 vs 2 mo, p<0.001), OS (median, 18 vs 7 mo, p=0.002). **Conclusions:** First-line FOLFIRINOX offers promising results in patients with LA and M-BTC. It deserves prospective evaluation to further improve outcomes for advanced BTC.

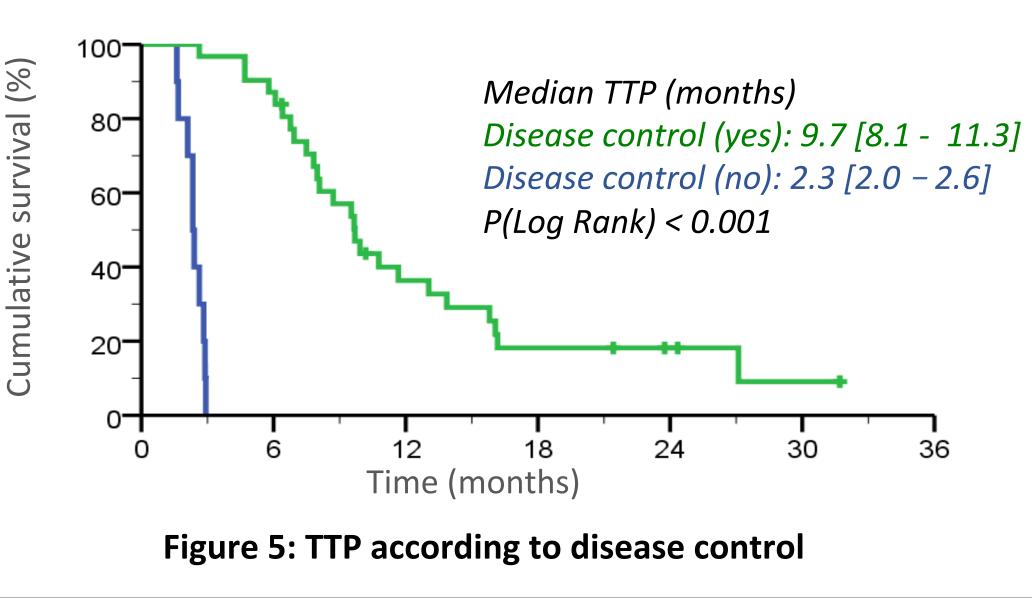
OBJECTIVES

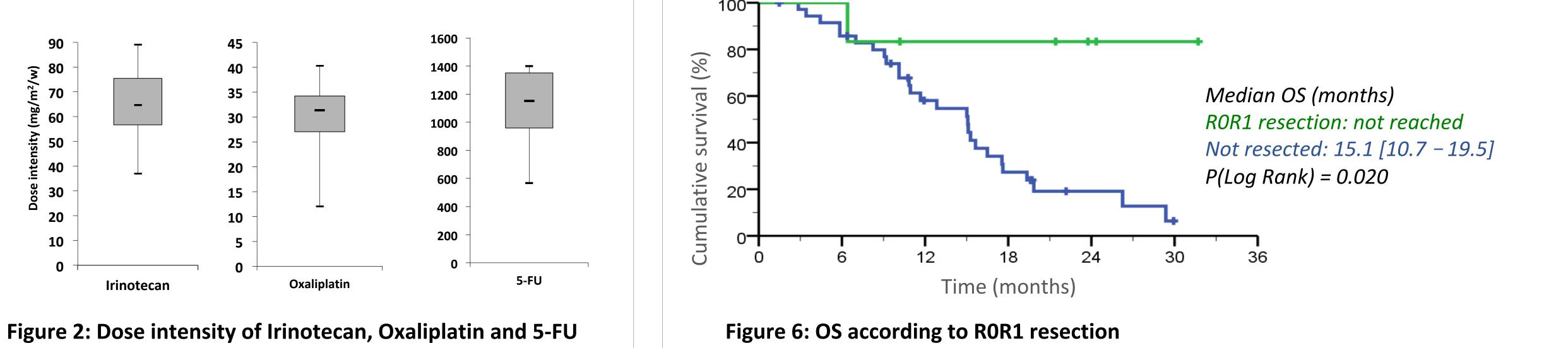
The objective of the study was to evaluate retrospectively the outcome of routine administration of FOLFIRINOX as a first-line chemotherapy in patients with advanced biliary tract cancer.

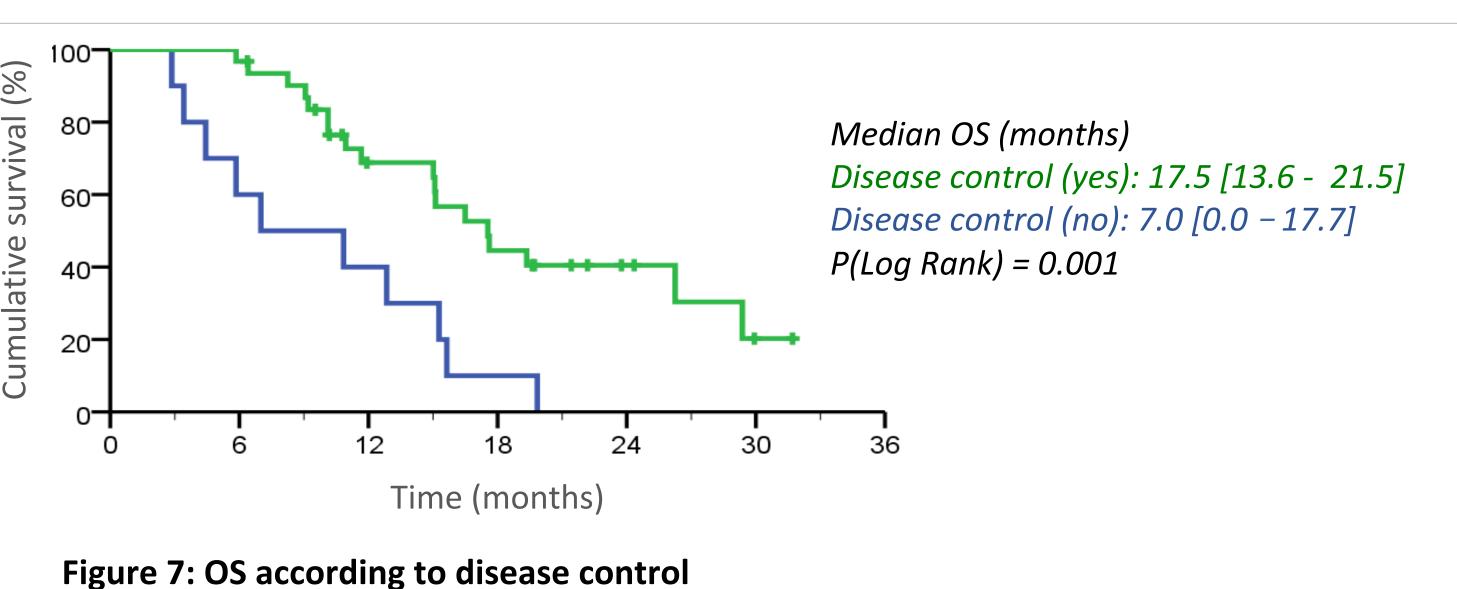
METHODS AND RESULTS (updated on July 27th, 2018)











CONCLUSION

FOLFIRINOX regimen with dose reductions according to patient profile and tolerance seems to offer promising results in patients with advanced biliary tract cancer. It deserves prospective evaluation to further improve outcomes for advanced biliary tract cancer.