

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ
24 - 27 Şubat 2022 | Gloria Golf Resort - ANTALYA

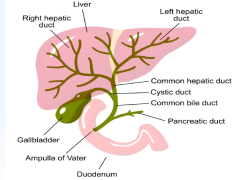
DOÇ. DR. GÖKHAN AKKURT
ANKARA ŞEHİR HASTANESİ CERRAHI ONKOLOJİ KLİNİĞİ

Nüks safra yolu tümörlerinde cerrahi şansı yok mu?

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ
24 - 27 Şubat 2022 | Gloria Golf Resort - ANTALYA

Safra Yolu Tümörleri (BTC):

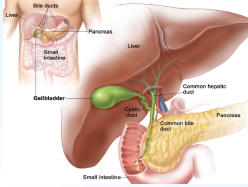
- Kolanjiokarsinom
- Safra Kesesi Kanseri
- Ampulla Vateri Kanseri



6. Ulusal CERRAHI ONKOLOJİ KONGRESİ
24 - 27 Şubat 2022 | Gloria Golf Resort - ANTALYA

Kolanjiokarsinom anatomik olarak;

- İntrahepatik kolanjiokarsinom (ICC)
- Ekstrahepatik kolanjiokarsinom (ECC)
- Hiler kolanjiokarsinom (Klatskin Tm)
- Distal kolanjiokarsinom



6. Ulusal CERRAHI ONKOLOJİ KONGRESİ
24 - 27 Şubat 2022 | Gloria Golf Resort - ANTALYA

İntrahepatik kolanjiokarsinom (ICC)

- ICC insidansı son birkaç yılda dünya çapında artmaktadır.
- ICC'da kür sağlamanın tek yolu cerrahidir.
- Cerrahi rezeksiyon → 3 yıllık sağkalm %40-50
- Hiler safra kanalı, vasküler invazyon nedeniyle **kombine hepatektomi + safra kanalı rezeksiyonu** gerekir.

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ
24 - 27 Şubat 2022 | Gloria Golf Resort - ANTALYA

Unrezektabl lokal ileri CCA

Neoadjuvan kemoterapi

Tümör boyutunda küçülme ve/veya evre düşmesi

Rezeksiyon şansı

Lenfadenektominin sağkalm üzerine faydası net değil

Rezeksiyon sonrası nüks %46 ile %65

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ
24 - 27 Şubat 2022 | Gloria Golf Resort - ANTALYA

	8th Edition ¹	7th Edition ²
T category (pT)		
T0	Carcinoma in situ (intraductal tumor)	Carcinoma in situ (intraductal tumor)
T1	Solitary, without vascular invasion	Solitary, without vascular invasion
T1a	Solitary, ≤5 mm without vascular invasion	
T1b	Solitary, >5 mm without vascular invasion	
T2	Solitary, with vascular invasion; or multiple, with or without vascular invasion	Solitary, with vascular invasion
T2a		Multiple, with or without vascular invasion
T2b		Perforating the visceral peritoneum or involving local extrahepatic structures by direct invasion
T3	Perforating the visceral peritoneum	Perforating the visceral peritoneum or involving local extrahepatic structures by direct invasion
T4	Involving local extrahepatic structures by direct invasion	Periductal invasion
N category (pN)		
N0	No regional lymph node metastasis	No regional lymph node metastasis
N1	Regional lymph node metastasis	Regional lymph node metastasis
AJCC stage groupings		
IA	T1a N0 M0	
IB	T1b N0 M0	
I	T2 N0 M0	T1 N0 M0
II	T2 N0 M0	T2 N0 M0
IIIA	T2 N0 M0	
IIIB	T4 N0 M0; any T N1 M0	
III		T3 N0 M0
IV	Any T any N M1	T4 N0 M0; any T N1 M0
IVA		Any T any N M1
IVB		

Ulusal CERRAHI ONKOLOJİ KONGRESİ

18-19 Eylül 2022 | İstanbul | ESO

- **AJCC 8th ed, ICC için 17 bölgesel lenf nodu (LN) tanımlanmıştır.**
- **Sağ karaciğer ICC için,**
 - *hiler (ortak safra kanalı, hepatik arterler, portal ven ve sistik kanal),*
 - *periduodenal ve peripankreatik LN*
- **Sol karaciğer ICC için,**
 - *infra-frenik, hiler ve gastrohepatik LN*
- **Çölyak ve/veya periaortik ve kaval LN uzak metastaz (M1).**



Taif T, Nisalak T, Karanlık K, Tokdemir H, Tokdemir O, Taşkın S. Graphical spreading pattern of intrahepatic cholangiocarcinoma. *Surgery*. 2021;223:827.

Ulusal CERRAHI ONKOLOJİ KONGRESİ

18-19 Eylül 2022 | İstanbul | ESO

Ekstrahepatik kolanjiokarsinom (ECC)

Gelişmiş görüntüleme yöntemleri → Küratif rezeksiyon oranı giderek artmakta

Cerrahi teknikler

- **Nüks safra yolu tümörleri;**
 - *lokal yetmezlik*
 - *karaciğer metastaz*
 - *LN metastaz*
 - *peritoneal metastaz*
- **Marjin (-) rezeksiyon sonrası nükslerin çoğu *Jokoreyonal* olmaktadır**

Ulusal CERRAHI ONKOLOJİ KONGRESİ

18-19 Eylül 2022 | İstanbul | ESO

8th Edition*		7th Edition**	
T category (pT)		T category (pT)	
T0	Carcinoma in situ/grade dysplasia	T0	Carcinoma in situ
T1	Confined to the bile duct, with extension up to the muscular layer or fibrous tissue	T1	Confined to the bile duct, with extension up to the muscular layer or fibrous tissue
T2	Involves the bile duct wall with a depth of ≥12 mm	T2	Involves the bile duct wall with a depth of ≥12 mm
T3	Involves the bile duct wall with a depth of ≥12 mm and extends beyond the wall of the bile duct to surrounding structures	T3	Involves the bile duct wall with a depth of ≥12 mm and extends beyond the wall of the bile duct to surrounding structures
T4	Involves the common hepatic artery, the common bile duct, or the common hepatic vein or the common hepatic artery and/or common hepatic vein	T4	Involves the celiac axis, superior mesenteric artery, and/or common hepatic artery
N category (pN)		N category (pN)	
N0	No regional lymph node metastasis	N0	No regional lymph node metastasis
N1	Metastasis in 1-3 regional lymph nodes	N1	Metastasis in 1-3 regional lymph nodes
N2	Metastasis in ≥4 regional lymph nodes	N2	Metastasis in ≥4 regional lymph nodes
AJCC stage groupings		AJCC stage groupings	
I	T1-N0-M0	I	T1-N0-M0
IIA	T2a-N0-M0	IIA	T1-N1-M0, T2-N0-M0
II	T2b-N0-M0	II	T1-N1-M0, T2-N1-M0
IIIB	T3-N0-M0	IIIB	T3-N0-M0
IIIC	T4-N0-M0	IIIC	T4-N0-M0
IV	T1-4-N1-2-M0	IV	T1-4-N1-M0
IVA	T1-4-N0-M1	IVA	T1-4-N1-M1
IVB	T1-4-N2-M0	IVB	T1-4-N2-M0
IVC	T1-4-N2-M1	IVC	T1-4-N2-M1

Ulusal CERRAHI ONKOLOJİ KONGRESİ

18-19 Eylül 2022 | İstanbul | ESO

Safra Kesesi Kanseri

Safra kesesi kanserinde (GBC) prognoz;

- *Evraye bağlı değişkenlik*
- *Cerrahi rezeksiyon sonrası kötü prognoz*

%30-65 oranında nüks

- *lenf nodu metastaz*
- *pozitif rezeksiyon sınırı*
- *orta veya az diferansiyasyon*
- *karaciğer ve safra kanalında tm*

Kim HK, Choi DK, You SD, Ho CS, Ma JJ, Choi SK. Risk factors influencing recurrence patterns of recurrence, and the efficacy of adjuvant therapy after radical resection for gallbladder carcinoma. *J Gastrointest Surg*. 2022;24(2):27-37.

Morgan GA, Gao F, Bantner S, et al. Rates and patterns of recurrence after curative intent resection for gallbladder cancer: a multi-institution analysis from the US extra-hepatic biliary malignancy consortium. *HPB (Lond)*. 2021;23(12):1-6.

Ulusal CERRAHI ONKOLOJİ KONGRESİ

18-19 Eylül 2022 | İstanbul | ESO

8th Edition*		7th Edition**	
T category (pT)		T category (pT)	
T0	Carcinoma in situ	T0	Carcinoma in situ
T1	Involves the lamina propria or muscular layer	T1	Involves the lamina propria or muscular layer
T1a	Involves the lamina propria	T1a	Involves the lamina propria
T1b	Involves the muscular layer	T1b	Involves the muscular layer
T2	Involves perimuscular connective tissue, with no extension into the liver	T2	Involves perimuscular connective tissue; with no extension into the liver
T2a	Involves perimuscular connective tissue on the peritoneal side	T2a	Involves perimuscular connective tissue on the peritoneal side
T2b	Involves the perimuscular connective tissue on the hepatic side	T2b	Involves the perimuscular connective tissue on the hepatic side
T3	Perforates the serosa and/or directly invades the liver and/or one other adjacent organ or structure	T3	Perforates the serosa and/or directly invades the liver and/or one other adjacent organ or structure
T4	Involves main portal vein or hepatic artery or ≥2 extrahepatic organs or structures	T4	Involves main portal vein or hepatic artery or ≥2 extrahepatic organs or structures
N category (pN)		N category (pN)	
N0	No regional lymph node metastasis	N0	No regional lymph node metastasis
N1	Metastasis to 1-3 regional lymph nodes	N1	Metastasis to nodes along the cystic duct, common bile duct, hepatic artery, and/or portal vein
N2	Metastasis to ≥4 regional lymph nodes	N2	Metastasis to periaortic, periceliac, superior mesenteric artery and/or celiac artery lymph nodes
AJCC stage groupings		AJCC stage groupings	
I	T1-N0-M0	I	T1-N0-M0
IIA	T2a-N0-M0	IIA	T2a-N0-M0
II	T2b-N0-M0	II	T2b-N0-M0
IIIB	T3-N0-M0	IIIB	T3-N0-M0
IIIC	T4-N0-M0	IIIC	T4-N0-M0

Ulusal CERRAHI ONKOLOJİ KONGRESİ

18-19 Eylül 2022 | İstanbul | ESO

Ampulla Vateri Kanseri

- **Primer ampullar karsinomlar nadir görülen malignitelerdir (Gastrointestinal kanserler <1%).**

Ampullar kanser → ampulla vater

Periampuller tümörler → safra kanalı, bağırsak veya pankreas

- **Ampullar kanser, pankreas kanseri cerrahi rezeksiyon sonrası 5 yıllık sağkalım (%37-68/%10-30).**
- **Küratif rezeksiyon sonrası %50 nüks**

Morgan GA, Alibekova E, Tam TM, et al. Assessment of survival advantage in ampullary carcinoma in relation to tumor biology and morphology. *Eur J Surg Oncol*. 2020;25:746-53.

Kamathides G, Worsham AJ, Haber AL, et al. Pancreatic ductal adenocarcinoma: is there a survival difference for R2 resection versus locally advanced unresectable tumors? What is a true R0 resection? *Ann Surg*. 2022;277:731-6.

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ		7th Edition**	
8th Edition*			
T category (pT)	<p>T0 Carcinoma in situ</p> <p>T1 Limited to ampulla of Vater or sphincter of Oddi or invades into the duodenal submucosa</p> <p>T1a Limited to ampulla of Vater or sphincter of Oddi</p> <p>T1b Invades beyond the sphincter of Oddi and/or into the duodenal submucosa</p> <p>T2 Invades into the muscularis propria of the duodenum</p> <p>T3 Invades the pancreas or extends into peripancreatic/periductal tissue or duodenal serosa</p> <p>T3a Invades the pancreas (≤ 0.5 cm)</p> <p>T3b Invades the pancreas (> 0.5 cm) or peripancreatic/periductal tissue or duodenal serosa</p> <p>T4 Invades the celiac axis, superior mesenteric artery, and/or common hepatic artery</p>	<p>T0 Carcinoma in situ</p> <p>T1 Limited to ampulla of Vater or sphincter of Oddi</p> <p>T2 Invades duodenal wall</p> <p>T3 Invades pancreas</p> <p>T4 Invades peripancreatic tissues or other adjacent organs or structures</p>	
N category (pN)	<p>N0 No regional lymph node metastasis</p> <p>N1 Metastasis to 1-3 regional lymph nodes</p> <p>N2 Metastasis to ≥ 4 regional lymph nodes</p>	<p>N0 No regional lymph node metastasis</p> <p>N1 Regional lymph node metastasis</p>	
AJCC stage groupings	<p>IA T1a-N0-M0</p> <p>IB T1b-2-N0-M0</p> <p>IIA T2a-N0-M0</p> <p>IIB T2b-N0-M0</p> <p>IIIA T3a-3b-N1-M0</p> <p>IIIB T4 any N, M0, any T N2-M0</p>	<p>T1-N0-M0</p> <p>T2-N0-M0</p> <p>T3-N0-M0</p> <p>T1-3-N1-M0</p>	

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ		7th Edition**	
8th Edition*			
<ul style="list-style-type: none"> - Fibroblast büyüme faktörü reseptörü (FGFR) - İsoasitrat dehidrojenaz inhibitörleri (IDH) - Anti- Human epidermal büyüme faktörü reseptörü-2 (HER2) - MEK inhibitörleri - BRAF inhibitörleri 			
<p>MEK/ERK1/2/RAF/MEK/ERK Signaling YOLU AĞI</p>		<p>BRAF V600E MUTASYONU</p>	

Wu Zhang, Hongwan Zhou, Pingping Wang, Zhen Zhang, Guangqi Guo, Tingting Song, T Zhang, Chang Li. Systemic treatment of advanced or recurrent biliary tract cancer. *Biochimica et Biophysica Acta*, 2022; 1855:1309-1321.

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ		7th Edition**	
8th Edition*			
<ul style="list-style-type: none"> • Günümüzde nüks BTC için cerrahiye giderek artan ilgi var. • Nüks paternlerinin değişkenlik göstermesinden dolayı bazı hastaların ameliyattan fayda görme olasılığı yüksek • Nüks BTC nedeniyle ameliyat olan hastalarda sağkalım avantajı gösterilmştir. • Hala belirsizlik mevcut • Çalışmaların çoğunluğu tek merkezli 			
<p>Takahashi Y, Ebata T, Takayama T, Igarashi T, Sugawara G, Mizuno T et al. (2015) Surgery for recurrent biliary tract cancer: a single-center experience with 74 consecutive resections. <i>Ann Surg</i> 262:221-228</p>			

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ		7th Edition**	
8th Edition*			
<p>ORIGINAL ARTICLE</p> <p>Surgery for Recurrent Biliary Tract Cancer A Single-center Experience With 74 Consecutive Resections</p> <p>Y. Takahashi, MD,¹ Y. Ebata, MD,¹ S. Takayama, MD,¹ T. Igarashi, MD,¹ T. Sugawara, MD,¹ K. Kubota, MD,¹ T. Imai, MD,¹ T. Mizuno, MD,¹ and M. Mizuno, MD,¹</p> <p>Objective: To review our experience with surgery for recurrent biliary tract cancer (BTC). Background: Few studies have reported on surgical procedures for recurrent BTC. Therefore, it is unclear whether the surgery has potential benefit. Methods: Between 1991 and 2010, 74 patients had recurrent BTC after resection of BTC. Surgical resection was performed in 67 (91%) patients without resection for recurrence, whereas the remaining 7 (10%) had no resection. The median survival was 26.7 months. Conclusion: The goal of the present study was to review our experience with surgical treatment of recurrent BTC and to evaluate whether aggressive surgical approaches have beneficial effects.</p>			
<ul style="list-style-type: none"> • 1991-2010 yılları arasında 606 BTC hastası rezeksiyon sonrası nüks - 135 hasta GBC - 471 hasta CCA 		<ul style="list-style-type: none"> • 74 hasta nüks nedeniyle rezeksiyon - Dahla az ilerlemiş kanser - Nüks etme süreleri daha uzun (1.4-0.8 yıl; P < 0.001) 	
<ul style="list-style-type: none"> • Toplam 89 cerrahi prosedür - 63 hastada 1 - 11'inde 2 kez 		<ul style="list-style-type: none"> • Nüks sonrası sağkalım rezeksiyon grubunda daha iyiydi (3 yılda %22 ye karşı %3; P < 0.001). 	

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ		7th Edition**	
8th Edition*			
<ul style="list-style-type: none"> • Bazı çalışmalar da; soliter nüks ICC için tekrar hepatektomiler sonrası iyi prognosis • Spolverrato ve ark. ICC için küratif amaçlı karaciğer rezeksiyonu sonrası, <ul style="list-style-type: none"> 210 hasta (%53) destek tedavi, 190 hasta (%48) <ul style="list-style-type: none"> - sadece sistemik kemoterapi (%24) - tekrarlayan karaciğere yönelik tedavi ve sistemik kemoterapi (%76). tekrarlayan hepatik rezeksiyon s ablasyon (28.5 %) sadece ablasyon (18.7 %) intra-arteriyel terapi (52.8 %) 			
<p>Mizuno Miyoshi, Hiroaki Shimizu, Hiroaki Takahashi, Atsushi Kato, Kazuoji Furukawa, Takanori Takayama, Satoshi Kubota, Shigetaka Takano, Masayuki Ohtsuka. Clinical implication of surgical resection for recurrent biliary tract cancer. <i>Chin J Hepatol Gastroenterol</i>, 2012; 15:64-69</p>			

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ		7th Edition**	
8th Edition*			
<ul style="list-style-type: none"> • Rezeksiyon yapılan nüks vakalarda median sağkalım 26.7 ay • ICC rezeksiyonu sonrası hastaların üçte ikisinde nüks • Nüks olduğunda prognosis kötü • %10 hastada nüks sonrası tekrar karaciğer rezeksiyonu olasılığı • Mütevazı bir hayatta kalma avantajı sağladı 			
<p>Spokleris G, Kim Y, Akshintsev S, et al. Management and outcomes of patients with recurrent intrahepatic cholangiocarcinoma following previous curative-intent surgical resection. <i>Ann Surg Oncol</i>, 2012; 23:202-43.</p>			

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

Surgical re-resection for recurrence of ICC after initial hepatectomy

Author	Year	n	Re-surgery	Prognosis
Yamamoto et al. ¹³	2011	4/25	Hepatectomy	17-155 mo (range)
Ohnaka et al. ¹²	2009	9/37	Hepatectomy	Median 22 mo
Ercolani et al. ²³	2010	6/39	Hepatectomy	56% at 3 y
Kamphues et al. ²⁴	2010	13/71	Hepatectomy+Ablation	Median 51 mo
Sakura et al. ¹⁹	2011	4/25	Hepatectomy	43% at 5 y
Song et al. ¹⁵	2011	1/25	Pneumonectomy	137 mo alive
Sukjoto et al. ²⁶	2012	5/74	Hepatectomy	8.8-58.5 mo
Takahashi et al. ²⁷	2015	2/47	Hepatectomy	NA
		3/47	Pneumonectomy	NA
		2/47	Looregional	NA
Souche et al. ²⁸	2016	10/76	Hepatectomy	Median 25 mo
Miyazaki et al. ²¹	2017	9/36	Hepatectomy	Median 28.5 mo (unresected)
Sapavatanas et al. ²⁰	2016	41/400	Hepatectomy	Median 26.7 mo

ICC, intrahepatic cholangiocarcinoma; mo, months; n, no. patients for re-surgery/recurrence; NA, not available; y, year.

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

1993-2015 yılları arasında

- Çoklu primer tümör (n = 1 [%6.7] n = 31 [%33.3], p = 0.037)
- Erken nüks (≤ 1 yıl; n = 4 [%26.7] ve n = 62 [%66.7], p = 0.003)
- Nüks sonrası sağkalmış **cerrahi uygulanan hastalarda daha iyiydi** (91.6/10.4 ay ve 3 yıllık sağ kalm: %86,7/%8,7, p<0,001)

76 hasta tekrar ameliyat edildi

79 hasta tekrar ameliyat edilmedi

• Cerrahi yapılanlarda düşük lenf nodu metastazı oranı vardı (n = 0 [%0] n = 47 [%50.5], p<0.001)

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

Repeating resection after initial resection

Tekrarlayan rezeksiyon yapılanlarda median **GS 65.2 ay** (1,3 ve 5 yıllık GS; %98, %78 ve %57)

Tekrarlanan rezeksiyon gününden itibaren median **GS 36.8 ay** (1,3 ve 5 yıllık GS; %86, %51 ve %34)

• ICC'nin tekrarlayan rezeksiyonu **kabul edilebilir morbidite ve mortaliteye sahip**

• **İyileştirilmiş yaşam süresi sağkalm** ile ilişkili görünmekte

• Bu hastaların erken teşhisi için **rezeksiyonu sonrası yakın takip önemli**

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

Ekstrahepatik kafa kanalının orta kısmından kaynaklı ECC,

- İlk ameliyatta Sofra kanalı rezeksiyonu
- Nüks PD veya hepatektomi
- LN tutulumu yoksa iyi, göğüs ve abdominal duvar tutulumu **kötü** prognoz

Nodal durum

İlk nüks yeri

Bağımsız prediktif faktör

• **Tekrarlayan rezeksiyonlar güvenli ve sağkalm da etkili**

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

Surgical re-resection for recurrence of extrahepatic bile duct cancer after resection

Author	Year	n	Initial surgery	Re-surgery	Prognosis
Taniguchi et al. ²⁹	1993	1/7	BDR	Hepatectomy	10 mo alive
Yoon et al. ⁴⁰	2005	1/7	BDR	Hepatectomy	46 mo alive
		1/7	Hepatectomy	BDR	9 mo alive
Hibi et al. ⁴¹	2006	1	PD	Hepatectomy	8 mo alive
Hwang et al. ⁴²	2010	2/7	BDR	PD	37 and 65 mo alive
Song et al. ²⁸	2011	10/242	BDR	PD, LN dissection, 4-101 mo (range)	
Kimura et al. ³⁰	2011	10/242	BDR, PD	Metastectomy	Median 14 mo
Noji et al. ⁴³	2015	18/114	NA	NA	23.5% at 5 y
Lee et al. ⁴⁴	2015	6/7	BDR	PD	Median 16 mo
Takahashi et al. ²⁷	2015	47/424	Hepatectomy, PD	PD, Hepatectomy	32% at 3 y
Miyazaki et al. ²¹	2017	4/60	PD, hepatectomy	Hepatectomy	1.9% at 5 y

BDR, bile duct resection; HPD, hepatopancreatoduodenectomy; LN, lymph nodes; mo, months; n, no. patients for re-surgery/recurrence; NA, not available; PD, pancreaticoduodenectomy; y, years.

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

Margolis ve ark.

- GBC için küratif rezeksiyon sonrası **nüks oranları ve paternleri** bildirmiş
- **ABD Ekstrahepatik Biliyer Malignite Konsorsiyum**
- **76 hasta (%35) nüks**
 - yalnızca bölgesel %12
 - yalnızca uzak %66
 - bölgesel ve uzak %18
- **Nüks sonrası adjuvan tedavi iyileştirilmiş genel sağkalm ile ilişkiliydi**
 - 1 yıl GS 91% ve 69%
 - 3 yıl GS 79% ve 29%
 - 5 yıl GS 76% ve 16%

Flowchart showing patient flow from diagnosis to treatment and outcomes.

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

10-17 Eylül 2021 | Davos Golf Resort - Antalya

Tek uzak nüks bölgeleri:

- Karaciğer (n = 13, %54)
- Uzak lenf nodları (tümü GBC, n = 7, % 29)
- Akciğer (n = 2, % 9)
- Periton (n = 1, %4)
- Kan dıvanı (n = 1, %4)

Sonuçta Nüks BTC de;

- daha az agresif tümör biyolojisi
- tek uzak nüks olan hastalarda

cerrahi etkili bir seçenek

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

10-17 Eylül 2021 | Davos Golf Resort - Antalya

- Unrezektabl CCA da **karaciğer transplantasyonu (LT)** bir seçenek olarak kabul edilebilir.
 - pozitif cerrahi sınır
 - yetersiz karaciğer volümü
 - altta yatan sklerozan kolanjit gibi primer hastalık
- Geçmişte, **yüksek nüks oranı** nedeniyle LT etkisiz olarak kabul edildi

1993 yılında Nebraska Üniversitesi

Mayo Klinik Karaciğer Nakli Merkezi

Neoadjuvan protokol

Gingiri E, Gombato M, Squitieri G, Iscra E, Lynch EN, Miral C et al. Cholangiocarcinoma as an indication for Liver Transplantation in the Era of Transplant Oncology. J. Clin. Med. 2020; 9, 2283

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

10-17 Eylül 2021 | Davos Golf Resort - Antalya

Mayo Clinic Protocol:

External beam radiation therapy (45 Gy in 30 fractions, 1.5 Gy twice daily)
 Brachytherapy (20 Gy at 1 cm in approximately 20-25 h)—administered 2 weeks following completion of external beam radiation therapy.
 Capecitabine—administered until the time of transplantation, held during postoperative period for staging.
 Abdominal exploration for staging—see time means for deceased donor transplantation.
 Liver transplantation

Diagnosis of pCCA (transcatheter biopsy or brush cytology, CA 19-9 > 100 mg/ml, and/or a mass on cross-sectional imaging with a malignant appearing stricture on cholangiography)

Inclusion Criteria

- Unresectable tumor above cystic duct (pancreatoduodenectomy for microscopic involvement of CBD, resectable pCCA arising in PSC)
- Radial tumor diameter < 3 cm
- Absence of intrahepatic and extrahepatic metastases
- Candidate for liver transplantation

Exclusion Criteria

- Intrahepatic cholangiocarcinoma
- Uncontrolled infection
- Prior radiation or chemotherapy
- Prior biliary resection or attempt resection
- Intrahepatic metastases
- Evidence of extrahepatic disease
- History of other malignancy within 5 years
- Transperitoneal biopsy (including percutaneous and EUS-guided FNA)

pCCA: perihilar cholangiocarcinoma; PSC: primary sclerosing cholangitis; CA19-9: Carbohydrate Antigen 19-9; CBD: common bile duct; EUS: endoscopic ultrasound; FNA: guided fine-needle aspiration.

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

10-17 Eylül 2021 | Davos Golf Resort - Antalya

PROTOCOL FOR LIVER TRANSPLANTATION IN HILAR CHOLANGIOCARCINOMA

STEPS FOR LT IN HCCA

LT center	Specialized center/Selected by SNT
LT standardization	Performed based on a protocol under SNT supervision in order to evaluate the outcomes
LT approval	Approval in a multidisciplinary meeting at local institution with mandatory presence of a radiologist, clinical oncologist, hepatogastroenterology surgeon and transplantation surgeon
LT notification	All cases must be referred to the SNT for evaluation and final approval.

LT INDICATION

Patient selection	Indication for HCCA with curative R0 resection and/or unresectable HCCA due to chronic liver disease/primary sclerosing cholangitis or other causes of chronic liver disease.
Official authorization	After SNT approval, patients will be included in the list for LT with a special MELD score (MELD 30)
LDLT	Follow the same inclusion and exclusion criteria of DDLT
	They will only have coverage by the Brazilian Ministry of Health if meeting the established criteria
	For tumors < 3 cm, there is a recommendation of performing at least one type of neoadjuvant chemotherapy and one radiotherapy modality (external radiotherapy or brachytherapy). In such cases, DDLT and LDLT will be allowed.
	For tumors > 3 cm and < 4 cm, there is a recommendation of performing at least one type of neoadjuvant chemotherapy and one radiotherapy modality (external radiotherapy or brachytherapy). In such cases, only LDLT will be allowed.

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

10-17 Eylül 2021 | Davos Golf Resort - Antalya

Current Transplantation Reports 2021:021-027
 https://doi.org/10.1093/otj/otj016

LIVER TRANSPLANTATION ONCOLOGY: QUINTINI AND C-MILLER, SECTION EDITORS

New Breakthroughs for Liver Transplantation of Cholangiocarcinoma

Robert R. McMillan¹, Adish Sahana¹, Meen Abdolehem², R. Mark Gholbari³

Accepted 7 January 2021 | Published online 2 February 2021
 © The Author(s) 2021

Abstract

Liver transplantation (LT) has gained ground as a treatment for cholangiocarcinoma. LT has achieved an established role as curative treatment for unresectable hilar cholangiocarcinoma (HCCA) and has an emerging role supporting its use in perihilar and intrahepatic cholangiocarcinoma (pCCA). This review explores the current treatment and future directions for LT for CCA.

Recent findings: Results of retrospective studies support individualized use of LT for resectable HCCA. Select patients with pCCA who have small tumors or favorable disease biology, as demonstrated by response to neoadjuvant therapy, have long-term survival after LT. Discoveries in the biology of CCA, show patients with FGFR and other genetic abnormalities have improved outcomes and may benefit from targeted therapies.

Summary: The success of LT for CCA support its increased utilization. Patients should be considered to increase accessibility of donor organs for patients with CCA.

Transplantasyon;

- CCA için bir tedavi olabilir
- LT'nin HCCA için faydaları iyi bilinmekte
- Seçilmiş hastalarda ICC da uygulanabilir
- Moleküler patogenez önemli

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ

10-17 Eylül 2021 | Davos Golf Resort - Antalya

> Lancet Gastroenterol Hepatol. 2018 May;3(5):337-348. doi: 10.1016/S2468-1253(18)30045-1. Epub 2018 Mar 13.

Liver transplantation for locally advanced intrahepatic cholangiocarcinoma treated with neoadjuvant therapy: a prospective case-series

Kari E Lindberg¹, Mattias Javik², Ken Bruha³, Karina T Djordjic⁴, Nathan Nicola-Walton⁵, Nikol Djordjic⁶, Constantinos M Hogg⁷, Anish Sahana⁸, David W Victor¹, Dus T Rajgopal⁹, Edward A Graviss¹⁰, Ahmed O Kasab¹¹, Robert S McFadden¹², Thomas A Alpa¹³, Claudia Corneil¹⁴, Zoran C Stijak¹⁵, Howard P Miral¹⁶, A Chama Golez¹⁷, Jean Nicolas Weather¹⁸, E Mark Chong¹⁹, Methodist-MD Anderson Joint Cholangiocarcinoma Collaborative Committee (MMAJCCC)


Affiliations # expand
 PMID: 2948617 DOI: 10.1016/S2468-1253(18)30045-1

- Ocak 2010-Aralık 2017 6 hastaya ICC nedeniyle karaciğer nakli yapıldı.
- Tamdan transplantasyona median süre 26 ay (IQR 17-33)
- Transplantasyondan sonra median takip süresi 36 ay (29-51)
- Genel sağkalım;
 - 1. yıla %100
 - 3 yıla %83.3
 - 5. yıla %83.3

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ
10-12 Eylül 2022 - Gazi Gazetesi - Ankara

esso

- CCA da **R0 rezeksiyonu** mümkün olduğunda en iyi seçenektir.
- Unrezektabl tümörlerde %65'ten fazla 5 yıllık sağkalm avantajı nedeniyle **LT tercih edilebilir.**
- Sistemik neoadjuvan rejimler
- Deneyimli merkez



6. Ulusal CERRAHI ONKOLOJİ KONGRESİ
10-12 Eylül 2022 - Gazi Gazetesi - Ankara

esso

Sonuç olarak:

- **Nüks BTC için ameliyat;**
- **Dikkate seçilmiş hastaların multimodal yönetiminde,**
- **Uzun süreli sağkalm şansını arttıran etkili bir seçenek olabilir.**

6. Ulusal CERRAHI ONKOLOJİ KONGRESİ
10-12 Eylül 2022 - Gazi Gazetesi - Ankara

esso

teşekkürler...

