Oncology Clinical Pathways Biliary Tract Cancer

March 2024 - V1.2024







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Biliary Tract Cancer – Presumptive Conditions

VA automatically presumes that certain disabilities were caused by military service. This is because of the unique circumstances of a specific Veteran's military service. If a presumed condition is diagnosed in a Veteran within a certain group, they can be awarded disability compensation.

<u>Vietnam Veterans – Agent Orange Exposure or Specified Locations</u>

Cancer of the bile duct

Gulf War and Post 9/11 Veterans

If the patient served on or after Sept. 11, 2001, in Afghanistan, Djibouti, Egypt, Jordan, Lebanon, Syria, Uzbekistan, or Yemen or if you served in the *Southwest Asia theater of operations, or Somalia, on or after Aug. 2, 1990, specific conditions include:

- Gastrointestinal cancer of any type
- * The Southwest Asia theater of operations refers to Iraq, Kuwait, Saudi Arabia, the neutral zone between Iraq and Saudi Arabia, Bahrain, Qatar, the United Arab Emirates, Oman, the Gulf of Aden, the Gulf of Oman, the Persian Gulf, the Arabian Sea, the Red Sea, and the airspace above these locations.

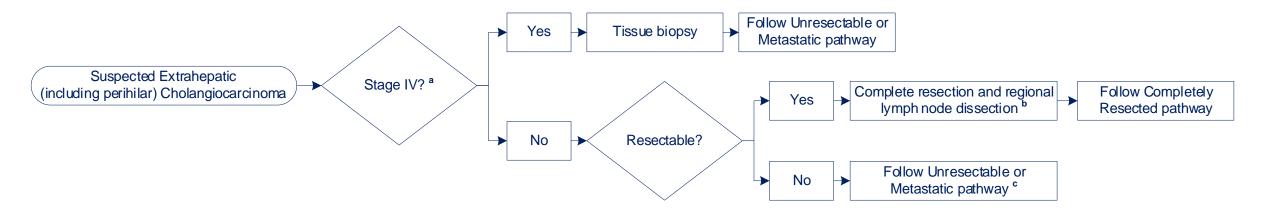
For more information, please visit <u>U.S. Department of Veterans Affairs - Presumptive Disability Benefits (va.gov)</u>







<u>Biliary Tract Cancer – Suspected Extrahepatic</u>



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email ClinicalTrialsNavigation@va.gov.





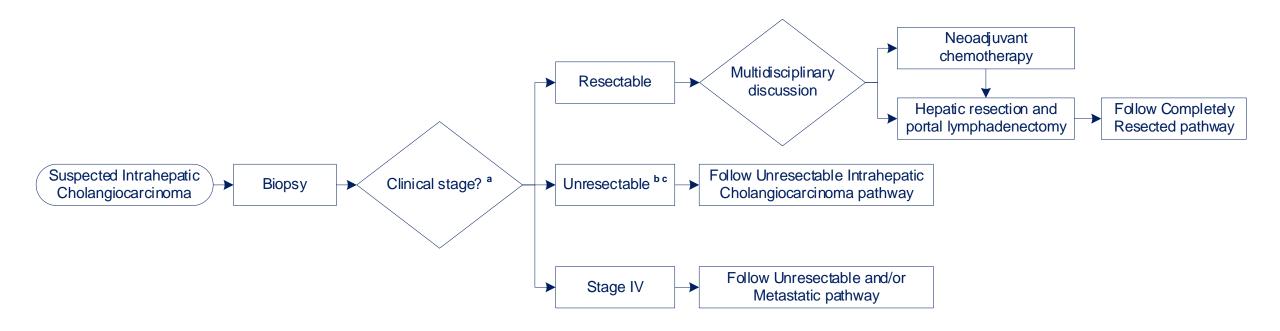


^a **Stage** multiphase CT or MRI + contrast, CT chest, labs (CEA, CA 19-9, AFP, LFTs, viral hepatitis serologies); contrast MRI with MRCP preferred for evaluating gallbladder masses and tumors with bile duct involvement; delayed phase imaging preferred for intrahepatic bile duct cancer

^b Resectable pancreaticoduodenectomy required for distal bile duct tumors and major hepatic resection for proximal perihilar tumors

^c **Transplant Candidate** if patient is a potential transplant candidate, place referral to transplant center; avoid fine needle biopsy; unresectable perihilar or hilar cholangiocarcinomas (CCAs) ≤3 cm without metastases and nodal disease may be considered for liver transplantation

<u>Biliary Tract Cancer – Suspected Intrahepatic</u>



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

^a Clinical Stage multiphase CT or MRI + contrast, CT chest, labs (CEA, CA 19-9, AFP, LFTs, viral hepatitis serologies); contrast MRI with MRCP preferred for evaluating gallbladder masses and tumors with bile duct involvement; delayed phase imaging preferred for intrahepatic bile duct cancer

^b Unresectable includes both anatomically unresectable or patient is not a candidate for resection

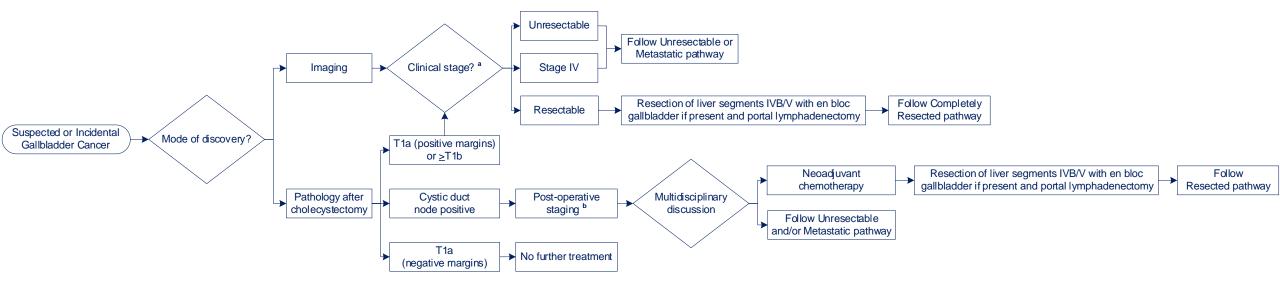
^c Transplant Candidate in highly selective patients if transplant is considered, place referral to transplant center prior to biopsy







Biliary Tract Cancer – Suspected or Incidental Gallbladder Cancer



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

^a Clinical Stage multiphase CT or MRI + contrast, CT chest, labs (CEA, CA 19-9, AFP, LFTs, viral hepatitis serologies), fine needle aspiration/core biopsy; contrast MRI with MRCP preferred for evaluating gallbladder masses and tumors with bile duct involvement; delayed phase imaging preferred for intrahepatic bile duct cancer

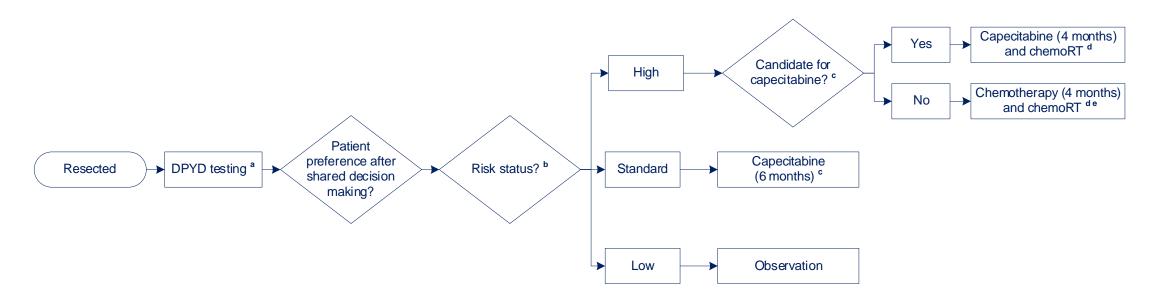
^b Post-Op Staging includes multiphasic CT abdomen/pelvis, contrast MRI, chest CT, CEA, CA 19-9







<u>Biliary Tract Cancer – Resected</u>



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

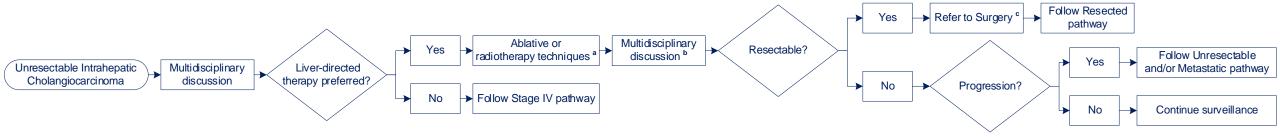
- ^a **Perform DPYD Testing If Not Already Performed** if DPYD PGx results return predicted phenotypes of either intermediate or poor metabolizer, please consult your local PGx pharmacist or submit an IFC Pharmacogenomics e-consult for assistance with therapeutic recommendation; a clinician may proceed without DPYD results if withholding chemotherapy for 2-3 weeks may gravely endanger patient's life; for example, if the disease burden is very high and it involves a large portion of vital organs such as liver, etc.
- ^b Risk Status patients with R1 (positive margins); lymph node disease will be considered high risk; T1NO gallbladder cancers will be considered low risk; all other patients will be considered standard risk
- ^c Candidate for Capecitabine avoid capecitabine if adherence issues, unable to self-report toxicity or severe renal impairment (CrCl < 30 min/ml)
- d ChemoRT if R1 resection, consider capecitabine and RT or protracted infusion 5-fluorouracil and RT before systemic capecitabine; should consider protracted infusion 5-fluorouracil and RT
- ^e Chemotherapy consider gemcitabine-based chemotherapy regimen







<u>Biliary Tract Cancer – Unresectable Intrahepatic</u>



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

^a Ablative or Radiotherapy Techniques include external beam radiation, thermal ablation with microwave or RFA, radiation segmentectomy (y90), irreversible electroporation, transarterial chemoembolization, or histotripsy based on multidisciplinary discussion and availability

b Multidisciplinary Discussion perform at time of restaging

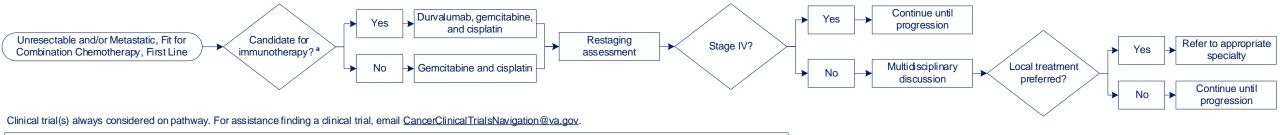
^c Surgery referral to hepato-biliary surgery if available







<u>Biliary Tract Cancer – Unresectable or Metastatic First Line</u>



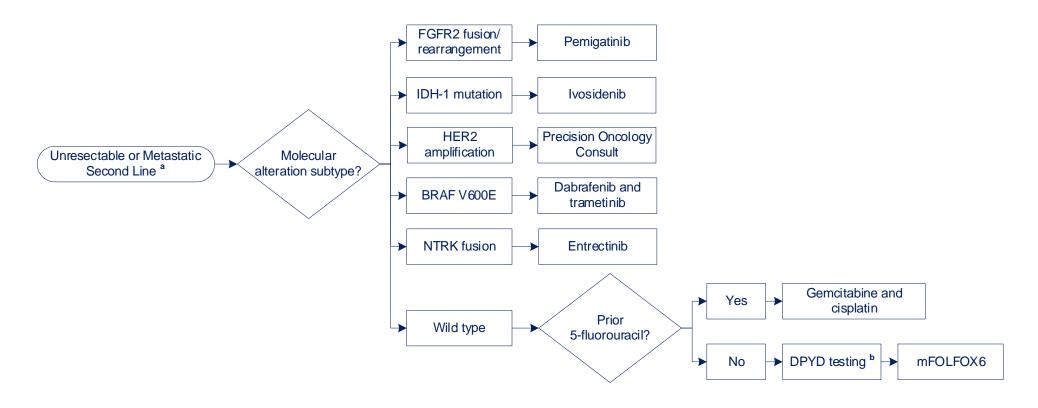
^a Candidate for Immunotherapy prior recipients of solid organ transplant or those with uncontrolled autoimmune/inflammatory condition should not be offered immunotherapy







<u>Biliary Tract Cancer – Unresectable or Metastatic Second Line</u>



Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email CancerClinicalTrialsNavigation@va.gov.

b Perform DPYD Testing If Not Already Performed if DPYD PGx results return predicted phenotypes of either intermediate or poor metabolizer, please consult your local PGx pharmacist or submit an IFC Pharmacogenomics e-consult for assistance with therapeutic recommendation; a clinician may proceed without DPYD results if withholding chemotherapy for 2-3 weeks may gravely endanger patient's life; for example, if the disease burden is very high and it involves a large portion of vital organs such as liver, etc.

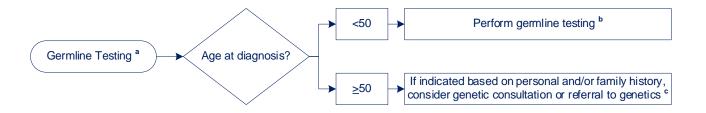


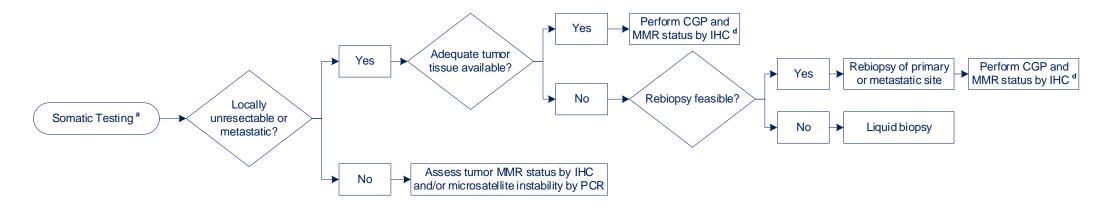




^a Second Line prior progression on first line chemotherapy or relapse within 6 versus 12 months of completion of adjuvant treatment

Biliary Tract Cancer – Molecular Testing





Clinical trial(s) always considered on pathway. For assistance finding a clinical trial, email <u>CancerClinicalTrialsNavigation@va.gov</u>.

- ^a Molecular Testing perform for all pathologically confirmed biliary tract cancers
- ^b Germline Testing for bile duct cancer should include at minimum the following genes: BRCA1, BRCA2, BAP1, PALB2, EPCAM (deletion), MLH1, MSH2, MSH6, PMS2
- ^c **Personal and Family History** consider germline testing if there is a personal history of other cancers (e.g., breast, ovarian, pancreas, colorectal, gastric, endometrial) or family history of a close relative with bile duct cancer or multiple relatives with other cancers
- ^d CGP with platform that uses DNA and RNA based testing or DNA and RNA based CGP

CGP Comprehensive Genomic Profiling







<u>Biliary Tract Cancer – Molecular Testing Table</u>

Eligibility	Test Category	Test Type	Recommended Vendors	NPOP Coverage	Specimen Type
Localized, Resectable Disease	IHC*	MLH1, MSH2, MSH6, PMS2	Local VA or locally contracted vendor	No	Tumor Tissue
	PCR*	Microsatellite instability (MSI) status by PCR	Regional Testing Center (GLA)	Yes	Tumor Tissue and Normal Tissue or Blood
Metastatic or Unresectable Cholangiocarcinoma	Somatic NGS**	DNA and RNA-based comprehensive genomic profiling (CGP)	Tempus	Yes	Tumor Tissue***, Blood
	IHC**	MLH1, MSH2, MSH6, and PMS2	Tempus	Yes (when ordered with CGP)	Tumor Tissue
Age <50	Germline NGS***	IGERMINE NGS panel	Fulgent Prevention Genetics	Yes Yes	Saliva, Blood
Personal or Family History of Other Bile Duct Cancers, Multiple Cancers, or Other Lynch-Associated Cancers	Germline NGS***	IC-ermine NC-S nanel	3 - 1	Yes Yes	Saliva, Blood
Deficient MMR or MSI-H Tumor			Fulgent Prevention Genetics	Yes Yes	Saliva, Blood

^{*} Localized, resectable disease needs either IHC or PCR to assess MMR status







^{**} Metastatic or unresectable disease should perform BOTH IHC and NGS for MMR status

^{***} Tissue testing strongly preferred because it is the only method for RNA based testing. Liquid testing is suboptimal but acceptable only if adequate tissue cannot be obtained

^{****} Germline testing should include at a minimum BRCA1, BRCA2, BAP1, PALB2, EPCAM (deletion), MLH1, MSH2, MSH6, and PMS2; Alternatively, the VA Common Hereditary POC panel can be performed; For genetic online ordering, refer to CCGS page for further details