Oncology Clinical Pathways Ampullary Cancer

February 2024 - V1.2024







Table of Contents

Presumptive Conditions	3
Initial Evaluation	4
Completely Resected (R0), Adjuvant Treatment	5
Pancreaticobiliary or Mixed Subtype, Stage IV, First and Second Line, Fit for Chemotherapy	6
Pancreaticobiliary or Mixed Subtype, Stage IV, Subsequent Line, Fit for Chemotherapy	7
Intestinal Subtype, Stage IV, First Line, Fit for Combination Chemotherapy	8
Intestinal Subtype, Stage IV, Second Line, Fit for Combination Chemotherapy	9
Stage IV, Unfit for Combination Chemotherapy.	10
Molecular Testing	11







Ampullary 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.

Atomic Veterans – Exposure to Ionizing Radiation

• Cancer of the small intestine, pancreas, and bile ducts

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.

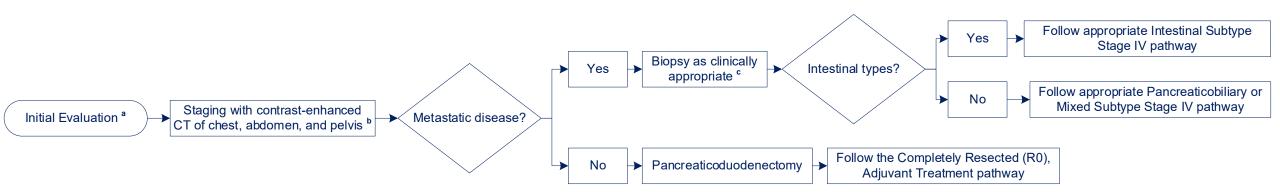
For more information, please visit <u>U.S. Department of Veterans Affairs - Presumptive Disability Benefits (va.gov)</u>







Ampullary Cancer – Initial Evaluation



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

^a Initial Evaluation suspicious lesion or biopsy proven ampullary cancer; if suspicious lesion, the mass can be sampled using biopsy forceps, and if sample is not adequate or diagnostic, then EUS with fine needle aspiration or core biopsy can be done

^b Imaging multiphase preferred; EUS staging can be considered on a case by case basis

^c Biopsy as Clinically Appropriate at least two attempts to obtain core biopsy of the metastatic lesion is preferred, if feasible; if not feasible, the primary ampullary mass can be sampled using biopsy forceps; if sample is not adequate then EUS with fine needle aspiration or core biopsy can be done (include cell block for molecular testing purposes)

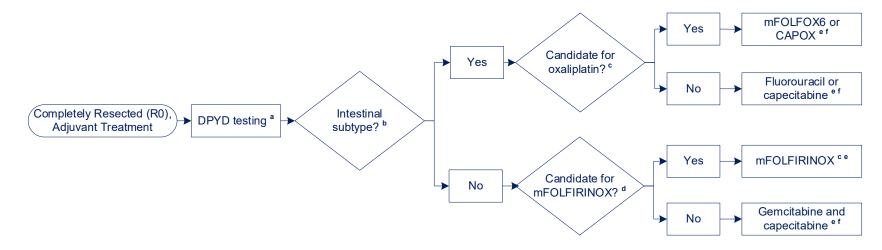
EUS Endoscopic Ultrasound







Ampullary Cancer – Completely Resected (R0), Adjuvant Treatment



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 Intestinal Subtype subtyping is based on morphology; IHC can be used to confirm morphologic impression;

• Intestinal: cigar-shaped nuclei, pseudostratified columnar cells, complex or cribiform glandular structure, intraluminal necrosis; more likely to express CK20 and CDX2 and less likely to express MUC1 (EMA) and CK7

Pancreaticobiliary: rounded/cuboidal nuclei, well-spaced simple glands, desmoplasia; more likely to express MUC1 (EMA) and CK7 and less likely to express CDX2 and CK20

^c Candidate for Oxaliplatin ECOG PS 0-1, lack of prohibitive neuropathy

^d **mFOLFIRINOX Candidate** defined as patient with ECOG PS 0-1, absence of uncontrolled CAD, lack of prohibitive neuropathy, and patient commitment to lab draws, every 14-day clinic visits, and utilizing an ambulatory infusion pump

^e Duration of Treatment duration of therapy should be considered for 6 months

^f Capecitabine avoid capecitabine if adherence issues, unable to self-report toxicity, or severe renal impairment (CrCl < 30ml/min)

DPYD Dihydropyrimidine Dehydrogenase **IHC** Immunohistochemistry

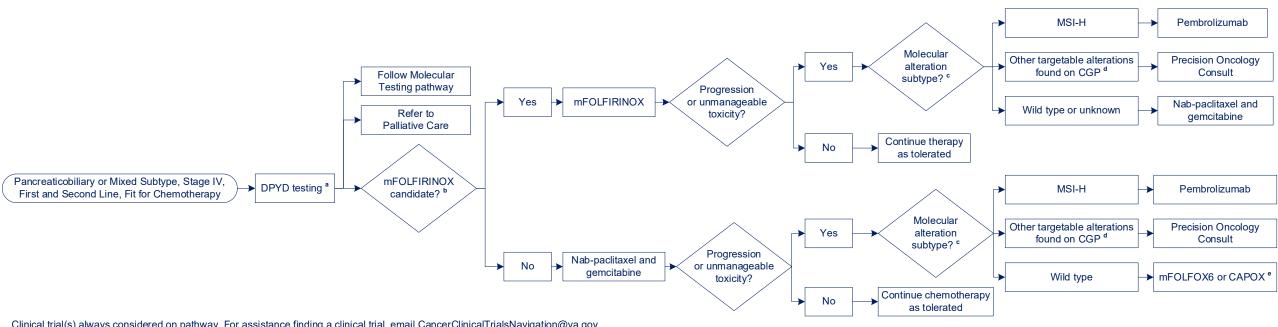






Ampullary Cancer – Pancreaticobiliary or Mixed Subtype, Stage IV,

First and Second Line, Fit for Chemotherapy



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.

mFOLFIRINOX Candidate defined as patient with ECOG PS 0-1, absence of uncontrolled CAD, lack of prohibitive neuropathy, and patient commitment to lab draws, every 14-day clinic visits, and utilizing an ambulatory infusion pump

Molecular Alteration Subtype based on CGP and/or germline testing

^d Other Targetable Alterations found on CGP BRAF V600E. IDH mutation. FGFR2 fusion. NTRK fusion. and HER-2 overexpression

Capecitabine avoid capecitabine if adherence issues, unable to self-report toxicity, or severe renal impairment (CrCl < 30ml/min)

CGP Comprehensive Genomic Profiling

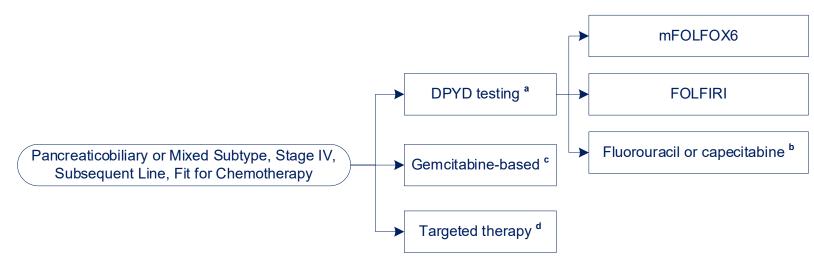






Ampullary Cancer – Pancreaticobiliary or Mixed Subtype, Stage IV,

Subsequent Line, Fit for Chemotherapy



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

^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 Capecitabine avoid capecitabine if adherence issues, unable to self-report toxicity, or severe renal impairment (CrCl < 30ml/min)

^c Gemcitabine Based options may include Gemcitabine single agent or combination with cisplatin (preferred) or carboplatin

^d **Targeted Therapy** strongly consider IFC consult to Precision Oncology if entertaining targeted therapy in later line therapies (especially if BRAF V600E and KRAS G12C)

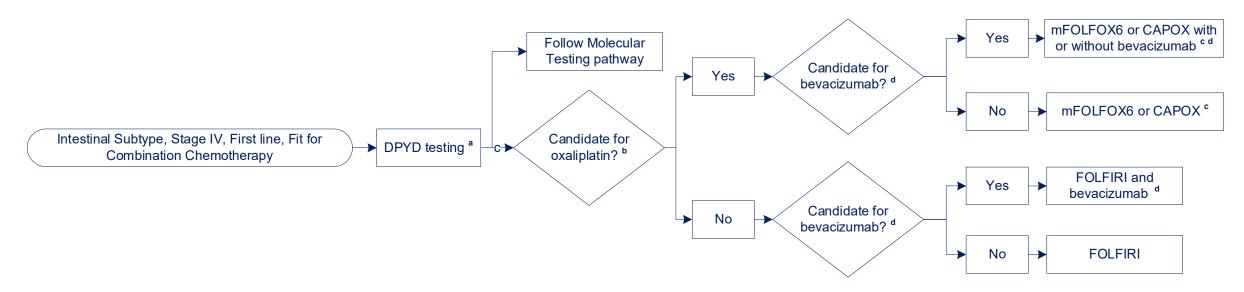
DPYD Dihydropyrimidine Dehydrogenase







<u>Ampullary Cancer – Intestinal Subtype, Stage IV,</u> <u>First Line, Fit for Combination Chemotherapy</u>



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

^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 Candidate for Oxaliplatin contraindication if any adjuvant treatment in the past 12 months or preexisting neuropathy >1 grade neuropathy; patient preference to avoid neuropathy

^c Capecitabine avoid capecitabine if adherence issues, unable to self-report toxicity, or severe renal impairment (CrCl <30 ml/min)

^d Candidate for Bevacizumab ECOG PS 0-2; ANC \geq 1500/mm³; due to anti-VEGF effects patients with the following should <u>not</u> receive bevacizumab: non-healing wound/fracture, major surgery in prior 4 weeks, bleeding disorder or coagulopathy, recent history of GI perforation, unstable cardiac condition (uncontrolled HTN, arterial thromboembolism, symptomatic CHF (NYHA II-IV) or arrhythmia), or active cocaine use

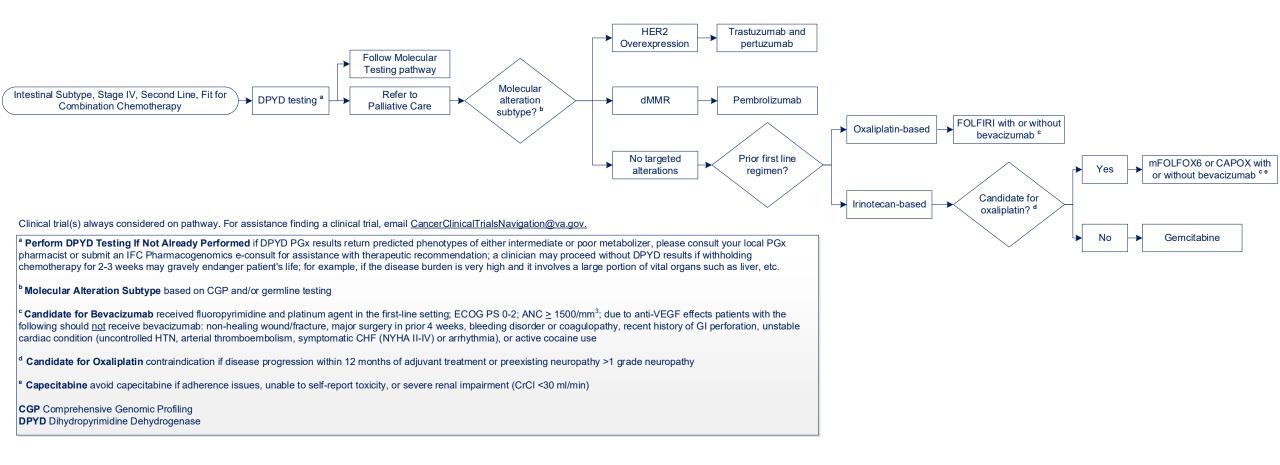
DPYD Dihydropyrimidine Dehydrogenase







Ampullary Cancer – Intestinal Subtype, Stage IV, Second Line, Fit for Combination Chemotherapy

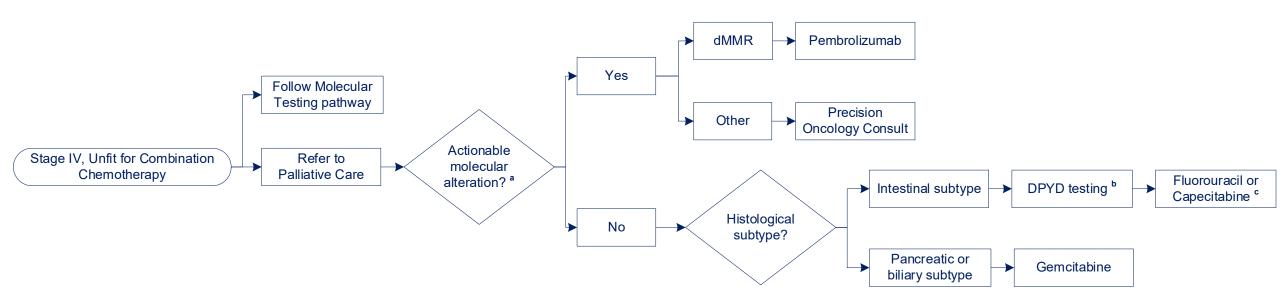








Ampullary Cancer – Stage IV, Unfit for Combination Chemotherapy



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

^a Molecular Subtype includes either somatic or germline

^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.

^c Second Line if intolerant to or progressed on first line treatment

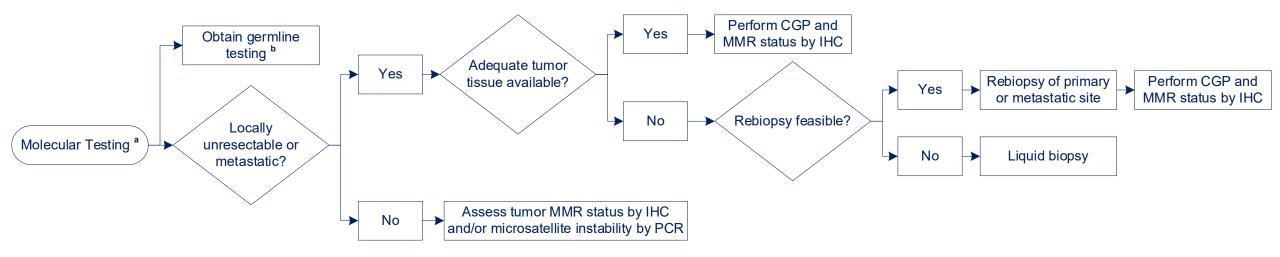
DPYD Dihydropyrimidine Dehydrogenase







Ampullary 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 ampullary cancer

^b Germline Testing for ampullary cancer should include at minimum the following genes: BRCA1, BRCA2, ERCC5, MEN1, MSH3, CHEK1, TP53, APC, FANCA, ERBB2, RTEL1, HNF1A, PTCH1, ATM, RAD50, MUTYH and the Lynch genes EPCAM2, MLH1, MSH2, MSH6, and PMS2

CGP Comprehensive Genomic Profiling **IHC** Immunohistochemistry





