Gastrointestinal Tumor Board

March 9, 2025 and 8:30 am









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25th Multidisciplinary Management of Cancers: A Case-based Approach

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Panelists

Lipika Goyal, MD, MPhil, Stanford- Chair Pamela Basto, MD, PhD, Stanford-Fellow, Case Presenter

Medical Oncology

Karen Chee, MD, UCSF Steven Corsello, MD, Stanford Andrew Ko, MD, UCSF Zach Koontz, MD, Pacific Cancer Care Steven Lee, MD, TPMG

Surgical Oncology

Cameron Gaskill, MD, MPH, UCSF Ajay Maker, MD, UCSF Ankit Sarin, MD, MHA, UC Davis Brendan Visser, MD, Stanford

Radiation Oncology

Erqi Pollom, MD, Stanford







Cancer Center



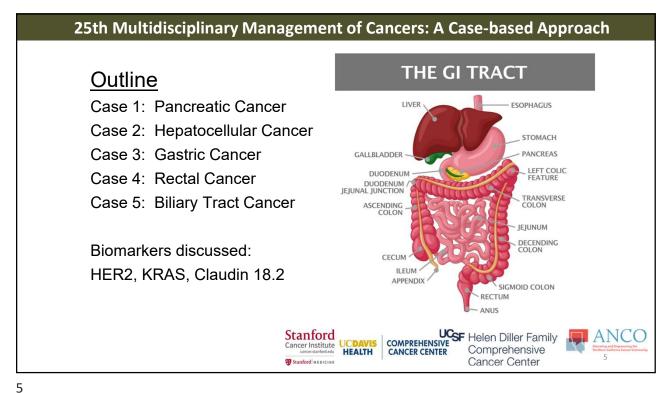
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25th Multidisciplinary Management of Cancers: A Case-based Approach

Disclosures

Faculty Name	Role	Type of Financial Relationship	Company				
Lipika Goyal	Chair	Advisory Board or Panel	AbbVie, Agenus, AstraZeneca (DSMB), Boehringer Ingelheim, Compass Therapeutics, Exelixis, Kinnate Biopharma, Merck, Relay Therapeutics, Servier, Surface Oncology, Taiho, and TransThera				
		Grants/Research Support	Alyssum Therapeutics, Boehringer Ingelheim, Genentech, AstraZeneca, Cogent and Tyra Biosciences.				
Pamela Basto	Fellow	Disclosed Patents	Cartesian Therapeutics, Stem Cell Technologies				
Karen Chee	Panelist	Disclosed no relevant financial relationships.					
Steven Corsello	Panelist	Grants/Research Support	Past lab research funding from Bayer and Calico				
		Other Financial or Material Support (royalties, patents, etc.)	Past lecture honorarium from Genentech.				
Cameron Gaskill	Panelist	Disclosed no relevant financial relationships.					
Andrew Ko	Panelist	Advisory Board or Panel	Arcus, Astellas, Corcept Therapeutics, Eisai, Fibrogen, Lenovo, Merus, Renovo, and Tango Therapeutics				
		Grants/Research Support Abgenomics, Apexigen/Pyxis, Astellas, Biomedical Valley Discoveries Myers Squibb, Genentech/Roche, LEAP Therapeutics, and Verastem					
		Salary/Contractual Services	Roche/Genentech, Ipsen, and Grail				
Zach Koontz	Panelist	Stock/Shareholder (excluding diversified mutual funds)	Merck <\$50k				
Steve Lee	Panelist	Disclosed no relevant financial relationships.					
Ajay Maker	Panelist	Grants/Research Support	Shannon Biosciences				
Erqi Liu Pollom	Panelist	Advisory Board or Panel	Vysioneer, GT Medical Technologies, and Castle Biosciences				
		Speaker's Bureau	Varian; Salary/Contractual Services: Stanford				
Ankit Sarin	Panelist	Consultant	Noah Medical, Averto medical, and Intuitive Surgical				
Brendan C Visser	Panelist	Disclosed no relevant financial relationships.					
		Stanford Cancer Institute cancer stanford edu	COMPREHENSIVE CANCER CENTER COMPREHENSIVE				

Stanford MEDICINI



25th Multidisciplinary Management of Cancers: A Case-based Approach Recent FDA Approvals for unresectable or metastatic gastrointestinal cancers **ESOPHAGEAL SQUAMOUS** BILIARY 5. Tislelizumah 2nd+ line treatment 1. Zanidatamab: refractory HER2+ (IHC 3+) GALLBLADDER DUODENUM **GASTRIC AND GE JUNCTION ADENO** DUODENUM JEJUNAL JUNCTION 6. Zolbetuximab + chemotherapy: TRANSVERSE COLON 1st line treatment of Claudin 18.2+, HER2-ASCENDING COLON 7. Tislelizumab + chemotherapy: 1st line treatment of PD-L1 (≥1), HER2-COLON 2. Adagrasib + cetuximab: DECENDING COLON refractory KRAS G12C mutated 3. Sotorasib+panitumumab: CECUM **PANCREAS** refractory KRAS G12C mutated ILEUM 4. Encorafenib + cetuximab + mFOLFOX6: APPENDIX 8. Zenocutuzumab SIGMOID COLON refractory NRG1 gene fusion+ BRAFV600E mutated RECTUM Stanford UCSF Helen Diller Family COMPREHENSIVE CANCER CENTER Comprehensive HEALTH Cancer Center

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Case 1 – Pancreatic Cancer

- Role of radiation in borderline resectable PDAC?
- Role of neoadjuvant chemotherapy in resectable PDAC? 2.
- Management of oligometastatic PDAC?















25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 1 – Pancreatic Cancer

49 y.o. male presents with one week of jaundice and diarrhea

- ECOG PS 1, Tbili 15, ALT 443, AST 172, Alk Phos 741, CA19-9 244
- Radiology
 - MRI Abdomen: 2 cm mass in the pancreatic neck with obstruction of the main pancreatic duct. Encasement and constriction of the portal confluence. SMA <180
 - EUS: 2.2 cm mass at the pancreatic head and bile duct dilation, cT2N0M0
- Pathology: pMMR adenocarcinoma











25th Multidisciplinary Management of Cancers: A Case-Based Approach Case 1 — Pancreatic Cancer Audience Questions Question 1.1 How would you define the resectability of this tumor? A) Resectable | 0% B) Borderline resectable | 50% C) Locally advanced | 50%

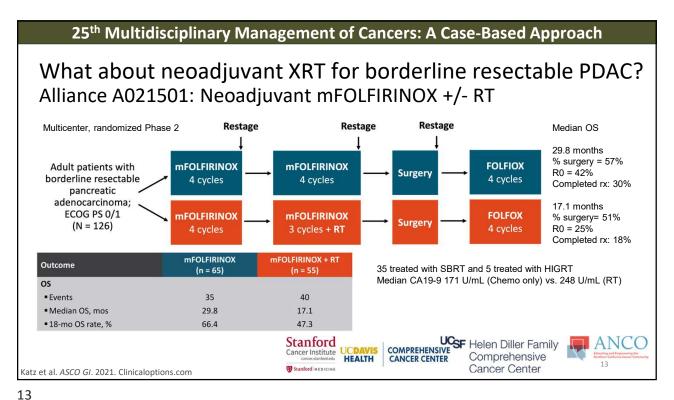
Case 1 — Pancreatic Cancer Panel Discussion

How do you define borderline resectable?

Do you give neoadjuvant chemotherapy for borderline resectable, and why?

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Case 1 – Pancreatic Cancer Panel Discussion

When do you consider giving radiation for borderline resectable PDAC? What about extranodal irradiation?







Case 1 – Pancreatic Cancer

After 4 doses of FOLFIRINOX:

- CA19-9 down from 423 to 170
- · CT: shrinkage of the primary mass

After 8 doses FOLFIRINOX:

- · CA19-9 up from 170 to 271
- CT: New enlarging tumor involving the upstream pancreatic body/tail with suspected stomach invasion. cT3N0. Unchanged vascular involvement.







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25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 1 – Patient Case

Molecular

GENOMIC VARIANTS

Profiling:

Biologically Relevant

Variant Allele Fraction

⊕ KRAS

p.G12V Missense variant (exon 2) - GOF

5.3%

⊕ GNAS

p.R201C Missense variant - GOF

2.7% •

pMMR intact, Claudin 18.2 & Her2 negative, TMB 2.6 mut/MB

- Not eligible for any clinical trials
- Treated with gemcitabine/nab-paclitaxel for 3 months
- CA19-9 decreased to 102
- Planned pre-operative SBRT +/- extranodal irradiation, followed by surgery.







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Case 1 – Pancreatic Cancer

- Role of radiation in borderline resectable PDAC?
- Role of neoadjuvant chemotherapy in resectable PDAC?
- Management of oligometastatic PDAC?







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25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 1 – Pancreatic Cancer Audience Questions

Question 1.2 What if the patient had a 2 cm pancreatic neck mass with no vascular involvement or enlarged lymph nodes?

A) Upfront surgery

B) Neoadjuvant mFOLFIRINOX x 4-6 months

C) Neoadjuvant gemcitabine/Nab-paclitaxel x 4-6 months

D) Neoadjuvant mFOLFIRINOX + Radiation

50% 46% 0% 4%

010



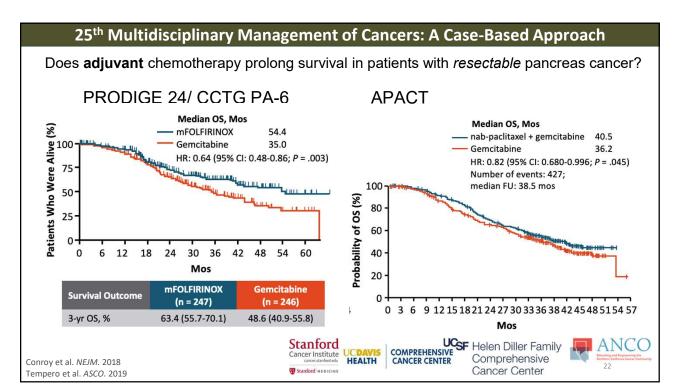
Does **neoadjuvant** chemotherapy prolong survival in patients with *resectable* pancreas cancer?

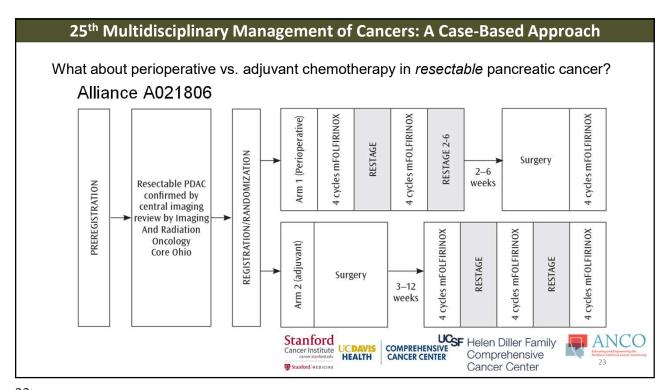
	Patient Population	Arms for Randomization	# of Pts	Pts completing neoadjuvant chemo by ITT	Median OS (mo)	HR /p- value
Pre—02/JSAP- 05	Resectable & Borderline Resectable	Neoadjuvant gemcitabine plus S-1 vs. upfront surgery	182 vs. 180	Not reported	36.7 vs. 26.6	HR 0.72, p=0.015
NEONAX	Resectable	Neoadjuvant gemcitabine and Abraxane vs. upfront surgery	59 vs. 59	53 (90%)	25.5 vs. 16.7	Not reported
PREOPANC1	Resectable & Borderline resectable	Neoadjuvant gemcitabine and radiotherapy vs. upfront surgery	119 vs. 127	81 (68%)	15.7 vs. 14	HR: 0.78 p= 0.096
PANACHE01 PRODIGE48	Resectable	Neoadjuvant mFOLFIRINOX vs. neoadjuvant FOLFOX vs. upfront surgery	70 vs. 50 vs. 26	62 (88%) vs. 42 (84%)	30.6 vs. 31.3 vs. >36	Not reported
PREOPANC2	Resectable & Borderline resectable	Neoadjuvant mFOLFIRINOX vs. neoadjuvant FOLFOX (closed) vs. upfront surgery	185 vs. 184	115 (62%) vs. 149 (81%)	21.9 vs. 21.3	HR 0.87 P= 0.28
SWOG1505	Resectable	Neoadjuvant mFOLFIRINOX vs. gemcitabine and Abraxane	55 vs. 47	46 (84%) vs. 40 (85%)	22.4 vs. 23.6	Not reported

Adapted from Henault et al. The Lancet Gastroenterology & Hepatology. 2024

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Case 1 – Pancreatic Cancer Panel Discussion

Do you give neoadjuvant chemotherapy for resectable disease and for which subset of patients?







Case 1 – Pancreatic Cancer

- Role of radiation in borderline resectable PDAC?
- Role of neoadjuvant chemotherapy in resectable PDAC?
- **Management of oligometastatic PDAC?**





33%



, ANCO

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25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 1 – Pancreatic Cancer Audience Questions

Question 1.3 47 y.o. woman s/p Whipple for T2N0 PDAC and 6 months of adjuvant FOLFIRINOX. At 18 months, the patient develops an isolated 2.5 cm segment 8 liver lesion.

What would you do?

A) Restart FOLFIRINOX

B) Radiofrequency ablation 30%

C) Metastasectomy 23%

D) External beam radiation 14%

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Case 1 – Pancreatic Cancer Panel Discussion

Oligometastatic Disease:

- How do you treat synchronous oligometastatic disease with a CA19-9<500?
 - 1 liver lesions?
 - 1 lung nodule?
 - >1 liver or lung nodule?
- How long do you wait for stability metachronous oligometastatic disease before deciding to definitively treat?



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Springfield et al. Nature Reviews Clinical Oncology. 2023

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25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 1 – Summary for Pancreatic Cancer

- No definitive improvement of OS with neoadjuvant chemotherapy in resectable cancers
- Neoadjuvant chemotherapy for borderline resectable pancreatic cancer is standard of care
- Pre-operative SBRT can improve R0 resection but has not demonstrated improvement of overall survival
- Targeted therapies have yet to be integrated in the perioperative setting











Pancreatic Cancer Trials

Current Trials
Future Trials

Kaiser Permanente

• Perioperative/Adjuvant: ALLIANCE study of FOLFIRINOX before/after PDAC surgery vs adjuvant

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- Perioperative/Adjuvant: ALLIANCE study of FOLFIRINOX before/after PDAC surgery vs adjuvant
- 1st line: AZD0901 Claudin 18.2 ADC + chemo
- 2nd+ line: AZD0022 (KRAS G12D inhibitor) +/- chemo
- 2nd+ line: INCB161734 (KRAS G12D inhibitor) +/- chemo

UC Davis

- Neoadjuvant Phase 1/2 Study of M3814 (Peposertib) + Hypofractionated Radiotherapy for Locally Advanced Pancreatic Adenocarcinoma
- 1st line: Nab-Paclitaxel and Gemcitabine plus/minus VCN-01 in Patients with Metastatic Pancreatic Cancer

LICSE

- Adjuvant Autogene Cevumeran + Atezolizumab + mFOLFIRINOX vs mFOLFIRINOX in Resected PDAC
- 1st Line : Gemcitabine and Nab-paclitaxel in Combination with VS-6766 and Defactinib
- 1st Line: Quemliclustat and Chemotherapy Versus Placebo and Chemotherapy in Patients for newly metastatic PDAC not previously treated
- 2nd Line: Maintenance Ivaltinostat + Capecitabine or Capecitabine in Patients with mPDAC With No Progression on First Line FOLFIRINOX
- 2nd Line: Nabplagem Vs. Nab-Paclitaxel/Gemcitabine in BRCA1/2 or PALB2 Mutant Metastatic Pancreatic Ductal Adenocarcinoma (PLATINUM)
- 2nd+ Line: RMC-6236 versus Investigator's Choice of Standard of Care Therapy in Patients with mPDAC
- 3+ line: Phase 1/2: 177Lu-FAP-2286 in Patients With an Advanced Solid Tumors

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25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 2 – Hepatocellular Carcinoma

- 1. How do we choose between the multiple first line options for advanced HCC?
- 2. How do anti-PD-1 and anti-CTLA-4 antibodies work?













Case 2 – Patient Case

44 y.o. male h/o chronic hepatitis B

- Presents to PCP with daily low grade fevers/chills, 2 months of progressive SOB, and 2 weeks of nausea/vomiting
- Exam: Abdominal distention, RUQ pain and lower extremity swelling
- WBC 11.3, Hgb 10.3, Plt 115K, Tbili 1.3, AST 72, ALT 51, Alk Phos 176, AFP 5, INR 1.4, Alb 3.6
- **BCLC-C, Child Pugh A6**

Abd US: gallstones sludge and possible liver mass

Sent to the Emergency room









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25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 2 – Patient Case

In the ED, CT A/P: extensive HCC of right lobe, tumor thrombus in the inferior cavoatrial junction/ right atrium

CT Chest Angiogram: no pulmonary embolism



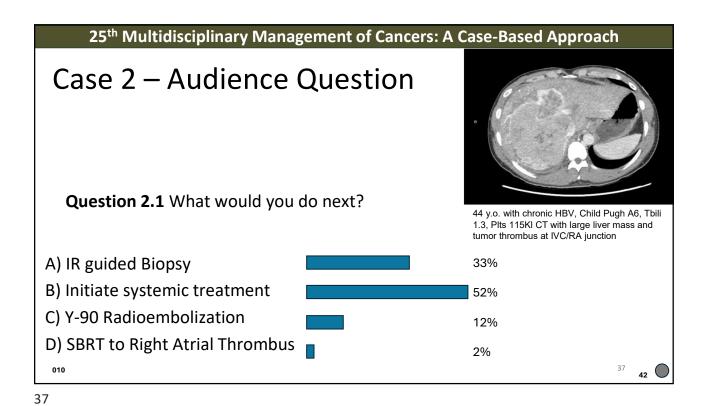


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Case 2 – HCC Audience Question

Tumor Board: 14 cm liver mass with extensive tumor in vein at portal venous confluence causing cavernous transformation. Raised concern for shunting with Y90. Recommended systemic therapy.

EGD: Grade 1 esophageal varices

Question 2.2. Which 1L systemic treatment would you choose?

- A) Atezolizumab/bevacizumab
- B) Durvalumab/tremelimumab
- c) Nivolumab/ipilimumab
- D) Lenvatinib



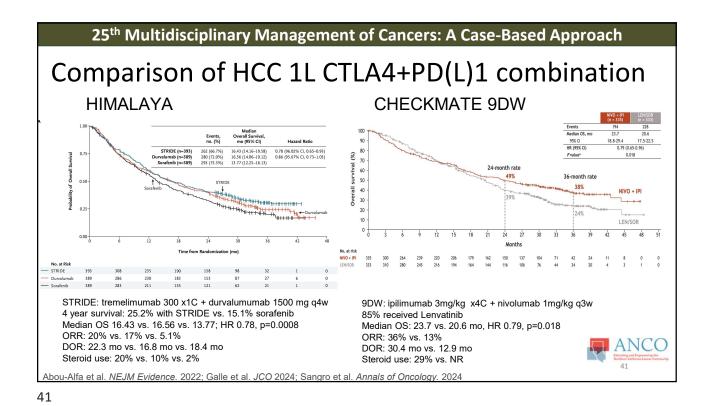


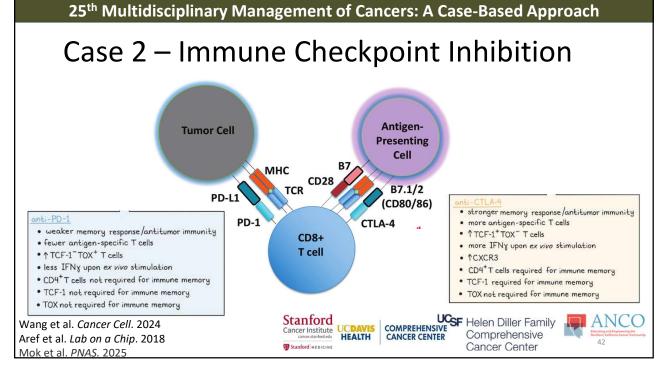


25th Multidisciplinary Management of Cancers: A Case-Based Approach Case 2 - HCC Audience Question Tumor Board: 14 cm liver mass with extensive tumor in vein at portal venous confluence causing cavernous transformation. Raised concern for shunting with Y90. Recommended systemic therapy. EGD: Grade 1 esophageal varices Question 2.2. Which 1L systemic treatment would you choose? Atezolizumab/bevacizumab 49% Durvalumab/tremelimumab 39% Nivolumab/ipilimumab C) 10% Lenvatinib 2% 010

25th Multidisciplinary Management of Cancers: A Case-Based Approach Case 2 – 1L Unresectable HCC Rx Options Study **Patient BCLC Stage Etiology** ORR (95% CI) **Median PFS Median OS** Hep B/HepC (months) (months) IMBrave 050 3 82% vs. 81% 49%/21% vs. 30% vs. 11% 69 vs 43 19 2 vs 13 4 Atezolizumab + 501 Bevacizumab 46%/23% 5.5% CR HR 0.65 HR 0.66 (0.53-0.81)(0.53-0.85)vs. sorafenib 80.4% vs. 31%/ 28% 20.1% vs. 5.1% Durvalumab + HIMALAYA 3.78 vs. 4.07 16.4 vs. 13.8 388 Tremelimumab 79.4% vs. 30.6%/ 3.1% CR HR 0.9 HR 0.78 vs. sorafeni 27.5% (0.77-1.05)(0.65-0.92)Nivolumab + Ipilimumab Checkmate 3 530 73% vs. 73% 34%/27% vs. 36% vs 13% 9.1 vs. 9.2 23.7 vs. 20.6 HR 0.87 HR 0 79 35%/29% 7% CR vs. Lenvatinib/sorafenib (0.72-1.06)(0.65-0.96)Stanford UCSF Helen Diller Family ANCO Finn et al. NEJM. 2020 UCDAVIS
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CANCER CENTER Comprehensive Abou-Alfa et al. NEJM Evidence 2022 Cancer Center Galle et al. JCO 2024

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Case 2 – Hepatocellular carcinoma

Patient received 3 cycles of atezolizumab + bevacizumab

- presented to ED with melena
- EGD with 5 moderate/large esophageal varices s/p banding with eradication

From Cycle 4 to Cycle 29, only received single agent atezolizumab



MRI A/P: (18 mo later)

- 1.3 cm and 1.1 cm residual foci in segment 7
- Similar necrotic tumor thrombus in the hepatic IVC and inferior atriocaval junction
- Similar burden of bland thrombus in portal veins and proximal splenic vein
- Cirrhotic liver morphology









Abou-Alfa et al. NEJM Evidence 2022 Galle et al. JCO 2024

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25th Multidisciplinary Management of Cancers: A Case-Based Approach Case 2 – HCC Audience Question 1.3 cm and 1.1 cm residual foci in **Question 2.3**. What would be your next step? segment 7 after atezo/bev Similar necrotic tumor thrombus in the hepatic IVC and inferior atriocaval 27% Consider curative hepatic resection 37% TACE or Y-90 Radioembolization Stereotactic Body Radiation Therapy (SBRT) 25% Switch to 2L systemic therapy 0% Refer for consideration of liver transplant E) 10% 40

Case 2 – HCC Panel Discussion

- When would you use atezolizumab/bevacizumab vs. durvalumab/tremelimumab vs. ipilimumab/nivolumab for 1L?
 - Efficacy: Does median OS or landmark analysis matter more?
 - Safety: Does rate of immune-related toxicities requiring steroids factor into your decision?
- What are the indications for SBRT vs. liver directed therapies by IR for BCLC stage C HCC with vascular invasion?





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Case 2 – Summary for Hepatocellular Carcinoma

- Multiple 1L treatment options for unresectable HCC, perhaps reserve nivo/ipi (higher CTLA4 dose 3 mg/kg and 4 doses) for more robust patients
- In preclinical models, CTLA4 inhibition improves tumor specific memory response over PD-1 inhibition, which may explain synergy in combination.
- Triplet combinations are now being evaluated in for frontline treatment of advanced HCC









Hepatocellular Carcinoma Trials

Current Trials
Future Trials

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- 1st line: Atezo/Bev/Tiragolumab (anti-TIGIT) vs Atezo/Bev (Child Pugh A)
- 1st line: Atezo/Bev or Atezo alone (Child Pugh B)
- 2nd+ line: Phase 1 TYRA-430 in HCC and Other Solid Tumors with Activating FGF/FGFR pathway aberrations (SURF-431)

UCSF

- 2nd + line: Durvalumab (MEDI4736) +/- Tremelimumab for Advanced Hepatocellular Carcinoma after Palliative Hypofractionated Radiotherapy
- Umbrella Study Evaluating the Efficacy and Safety of Multiple Immunotherapy-Based Treatment Combinations in Patients with Advanced Liver Cancers (Morpheus-Liver)
- 2nd+ line: A Phase I/II Study to Evaluate AZD5851 in GPC3+ Advanced/Recurrent Hepatocellular Carcinoma (ATHENA)
- 1st line: TheraSphere™ Followed by Durvalumab with Tremelimumab for HCC (ROWAN)
- 2nd+ line: Phase 1 TYRA-430 in HCC and Other Solid Tumors with Activating FGF/FGFR pathway aberrations (SURF-431)

UCDavis

• 1st line: Atezo/Bev or Atezo alone (Child Pugh B)

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25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 3 – Gastric Cancer

- 1. How do we integrate local and systemic therapy for patients with GEJ or gastric cancer?
- 2. What are the FDA approved immunotherapies for 1L advanced GEJ and gastric cancer?
- 3. What is all the noise about Claudin 18.2?











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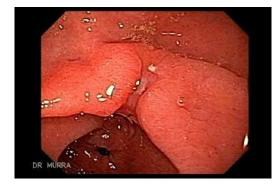


Case 3 – Gastric Cancer

58 y.o. male, h/o H. Pylori, who presents with 1 year of progressive epigastric pain, weight loss and decreased satiety, ECOG 1

EGD: normal esophagus and large circumferential mass in the distal stomach without bleeding at the pylorus, negative for H. Pylori.

poorly differentiated Biopsy: adenocarcinoma











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25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 3 – Gastric Cancer



CT CAP:

- Nodular or irregular wall thickening of the distal stomach extending into the gastroduodenal junction
- Several LN in the perigastric region are concerning for local regional lymphadenopathy.

PET/CT:

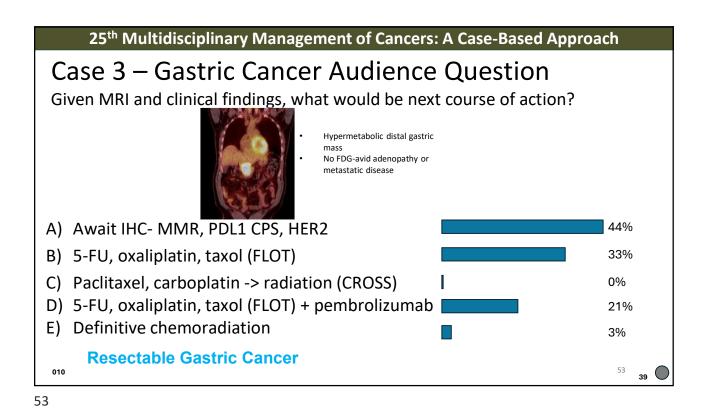
- Hypermetabolic gastric mass
- No FDG adenopathy or metastatic disease

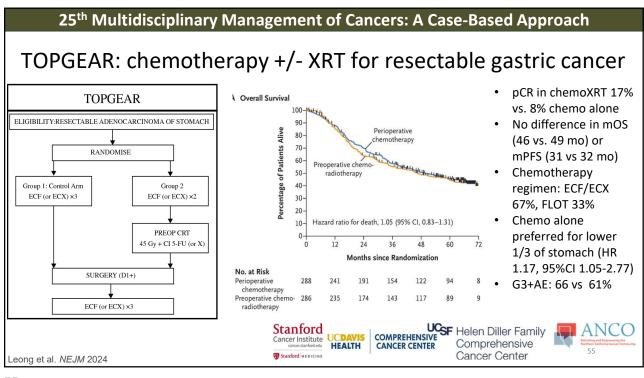


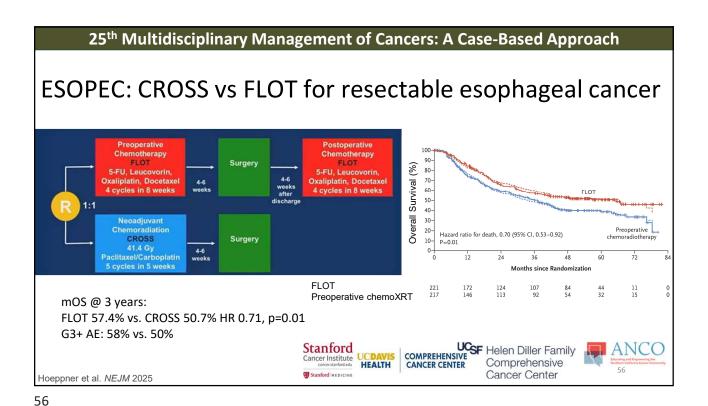




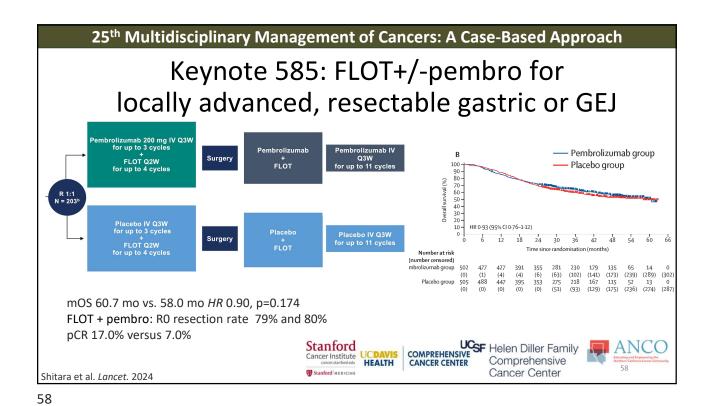








25th Multidisciplinary Management of Cancers: A Case-Based Approach Matterhorn: FLOT+/- durvalumab in resectable gastric and GEJ adenocarcinoma Pre-operative Post-operative (1-year duration) Pathological complete response ses of durvalumab placebo 4 doses FLOT Central review Primary objective: (1:1)Key secondary endpoints: 15 Central review of pCR[‡] 10 by modified Ryan cr Overall survival plus FLOT plus FLOT Durvalumab 1500 mg or placebo Q4W (Day 1) plus FLOT Q2W (Days 1 and 15) for 4 cycles (2 doses of durvalumab or placebo plus 4 doses of FLOT pre- and post-operative) followed by durvalumab or placebo Q4W (Day 1) for 10 further cycles Stanford UCSF Helen Diller Family ANCO UCDAVIS
HEALTH
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CANCER CENTER Cancer Institute Comprehensive Cancer Center Jangigian et al. ASCO GI. 2024



Case 3 – Gastric Cancer

PLAN: 4 cycles of FLOT → distal gastrectomy + D2 LN dissection

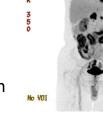
HIS COURSE:

- 1 cycle of FLOT -> presented to ED 5 days later with abdominal pain
- CT with pneumoperitoneum secondary to a microperforation of tumor.
- Patient underwent emergent distal gastrectomy with Roux-en-Y reconstruction, D2 lymphadenectomy, and hyperthermic intraperitoneal chemotherapy (HIPEC), complicated by acute tubular necrosis requiring hemodialysis.
- Pathology: 4.5 cm tumor, 1/23 nodes, pT3N1, R0 resection, G3 poorly differentiated, LVI positive



Case 3 – Patient Case

- POD 32, developed SBO followed by pericarditis requiring treatment by steroids, new Cr 3.44 requiring hemodialysis
- PET/CT (3 mo post-op): Two new hypermetabolic retroperitoneal LNs
- Proceeded with 5 –FU single agent x 3 months
- PET (6 mo post-op)- Increased hypermetabolic activity of nodes within the central mesentery and retrocaval region
- Tumor board recommended: SBR 4500 Gy in 5 fractions to perigastric nodes







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25th Multidisciplinary Management of Cancers: A Case-Based Approach

Case 3 – Patient Case



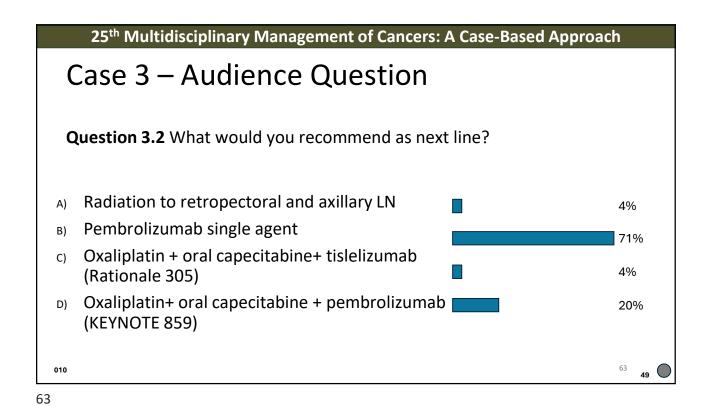
- PET/CT (12 months post-op):
 - Enlarged intensely hypermetabolic left retropectoral and axillary lymph nodes consistent with metastatic involvement.
- Axillary LN Biopsy: Metastatic gastric adenocarcinoma
- Now off hemodialysis, Cr 2.20-2.44
- No PMH of autoimmunity
- Molecular profiling: MLH1 and PMS2 mutated, MLH1 hypermethylated, PDL1 CPS score 100, HER2 negative, Claudin TBD, no other actionable alterations



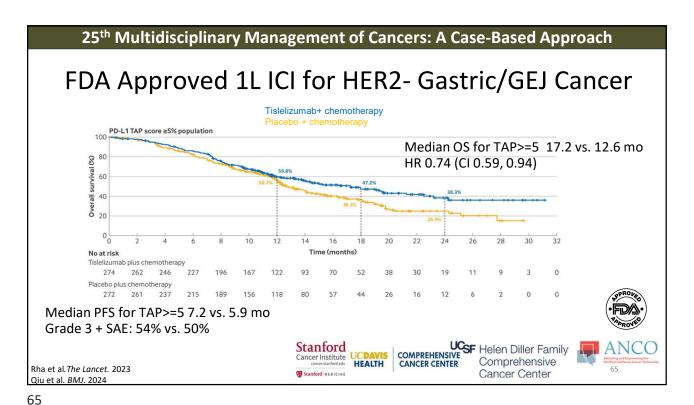


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25th Multidisciplinary Management of Cancers: A Case-Based Approach FDA Approved 1L ICI for HER2- Gastric/GEJ Cancer Checkmate 649- nivolumab KEYNOTE 859 - pembrolizumab PD-L1 CPS ≥1 PD-L1 CPS ≥10 Pts w/ Median (95% CI), mo 67.4% 15.7 (13.8-19.3 83.1% 11.8 (10.3-12.7 CPS>=5 Median OS 14.4 vs. 11.1 mo Pts w/ Median Event (95% CI), mo HR 0.70 (CI 0.60, 0.81) Median PFS 8.3 vs. 6.1 mo HR 0.65 (95% CI, 0.53-0.79) P < 0.0001 70 Pembrolizumab (%) SO + chemotherapy Nivolumab + chemotherapy Chemotherapy Chemotherapy No. at risk 279 230 193 143 104 76 52 30 10 2 0 272 220 154 99 67 37 26 12 6 0 0 CPS>=1 Median OS 13.0 vs. 11.4 mo HR 0.74 (CI 0.65, 0.84) 473 440 380 315 263 223 187 161 141 118 105 100 94 81 68 63 37 24 17 6 2 0 482 424 353 275 215 154 125 97 83 69 60 51 44 35 28 18 14 10 5 0 0 0 Median PFS 6.9 vs. 5.6 mo Grade 3+ SAE: 59% vs. 51% UCSF Helen Diller Family Stanford UCDAVIS COMPREHENSIVE CANCER CENTER Rha et al. The Lancet. 2023 Comprehensive Janijangan et al. JCO. 2024 Cancer Center Oiu et al. BMJ. 2024



Case 3 – Gastric Cancer Patient Case

Patient received 1.5 years of single agent pembrolizumab every 2 weeks, c/b Grade 2 pruritis alleviated with topical ointment. Recently completed 4 years of remission.



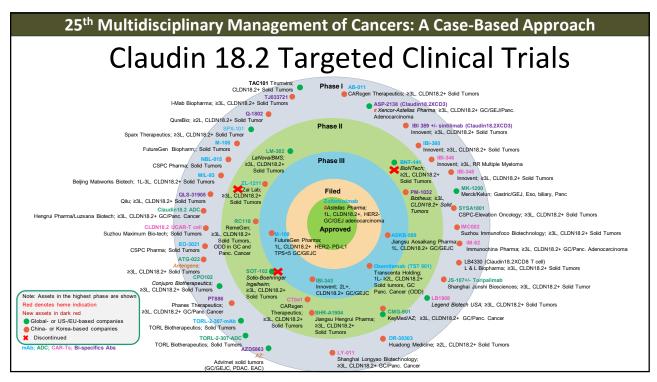


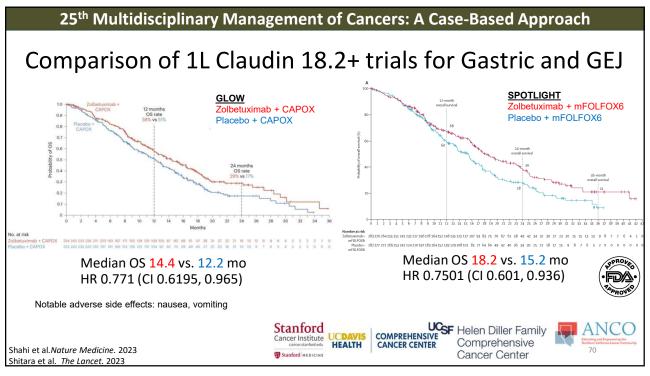


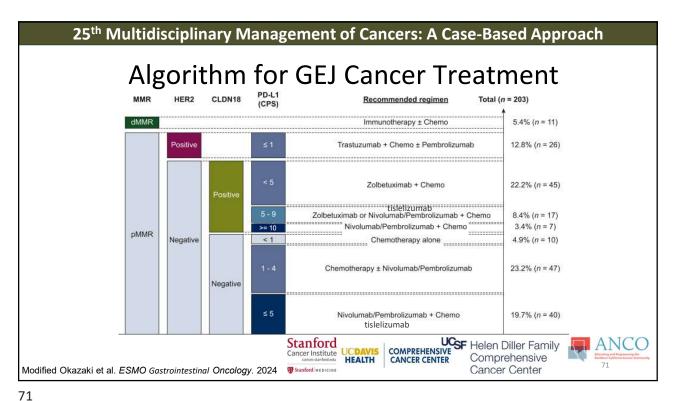
Case 3 — Audience Question Question 3.3 What would you do if his tumor was CPS <1, HER2 negative, Claudin 18.2 positive (moderate to strongly positive staining in ≥75% cells)? A) Radiation to the LN B) 5-FU, leuocovorin, oxaliplatin, taxol C) Zolbetuximab, CAPOX (GLOW) Zolbetuximab, mFOLFOX (SPOTLIGHT) 48%

25th Multidisciplinary Management of Cancers: A Case-Based Approach Case 3 - Claudin 18.2 Background b Claudin 18.2 14G11 and SP455 Zolbetuximab binding site Tight junction Adherens junction ¬ Desmosome EPR19202 Plasma Cytoplasm Claudin 18.2 Cadherins Stanford UCSF Helen Diller Family UCDAVIS
HEALTH
CANCER CENTER Comprehensive Cancer Center Nakayama et al. Nature Reviews Clinical Oncology. 2024

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Case 3 – Gastric Cancer Panel Discussion

- 1. In the setting of a local recurrence, what factors impact your choice of local vs systemic therapy?
- 2. How do you choose from pembrolizumab, nivolumab, and tislelizumab for 1L?
- 3. For CPS 1-5, Claudin 18.2 +, would you choose IO vs. zolbetuximab to use first?





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Case 3 – Summary for Gastric and GEJ tumors

- With triple biomarker disease (HER2, CPS, Claudin 18.2), we have multiple frontline combination regimens.
- If HER2 negative and high PDL1 CPS, chemotherapy + ICI is first line, but can consider single agent ICI if concerns about chemotherapy toxicity
- Zolbetuximab + chemotherapy is now standard of care for Claudin 18.2+ tumors, but slow translation due to side effect profile and practicality (infusion times)









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Gastroesophageal Cancer Trials

Current Trials

Kaiser Permanente

- 2nd +line Nivolumab/paclitaxel/ramucirumab vs. paclitaxel/ramucirumab with PD-L1 CPS>=1 (Alliance
- 1st line: mFOLFIRINOX +/- nivolumab vs. FOLFOX+/- nivolumab for HER2 negative GEJ

Stanford

- 2nd+ line: Neratinib/Trastuzumab-deruxtecan for HER2+ GI cancers
- 2nd+ line: AZD0901 Claudin 18.2 ADC
- 2nd+ line: INCB161734 (KRAS G12D inhibitor) +/- chemo

- 2nd +line: Nivolumab/paclitaxel/ramucirumab vs. paclitaxel/ramucirumab with PD-L1 CPS>=1 (Alliance
- 2nd +Line: M6620 + Irinotecan with Progressive TP53 mutant GEJ cancers









Case 4- Rectal Cancer

- What is the incidence and biology of KRAS mutations in colorectal cancer?
- What are the data for the FDA approvals of KRAS G12C inhibitors in CRC?















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Case 4 – Patient Case

65 y.o. male, FIT test positive

- Colonoscopy showed a 2 cm, fungating, non-circumferential, nonobstructing mass in the distal rectum, 3-6 cm proximal to the anus, ECOG 0
- Pathology Biopsy: tubulovillous adenoma











Case 4 - Patient Case

Flexible sigmoidoscopy: 3 cm lesion in the rectum removed by endoscopic submucosal dissection

Pathology: 2.5 cm pT1 invasive adenocarcinoma R0 resection

- · G1 well differentiated, LVI+, PNI+
- pMMR, Molecular profiling pending

CT Chest: Seven pulmonary nodules are indeterminate however at least two appear spiculated













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Case 4 – Rectal Cancer Audience Question

Question 4.1. What is your next recommended course of treatment?

A) Await molecular profiling results

14%

Start FOLFOX

7%

Start course of definitive chemoradiation

19%

D) Biopsy/Lobectomy for confirmation of metastatic disease

60%



Case 4 – Patient Case

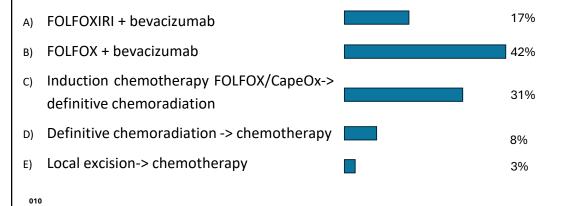
- PFTs within normal limits
- Wedge resections of the left lower lobe performed
- Pathology: 1.1 and 1.2 cm foci of HER2- metastatic colorectal adenocarcinoma



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25th Multidisciplinary Management of Cancers: A Case-Based Approach Case 4 — Audience Question

Question 4.2. In a T1NXM1, high risk pt, how would you would treat next?



Case 4 – Patient Case

Received 1 cycle of CAPEOX c/b Grade 1 hand and foot syndrome,

2 additional cycles of oxaliplatin. Severe brain fog led to patient preference for discontinuance.

Switched to adagrasib + cetuximab and completed 6 cycles c/b Grade 2 EGFR inhibitor rash Grade 1 arthralgias

CT CAP: no evidence of metastatic disease

MRI Abd/Pelvis: no evidence of residual or recurrent rectal tumor









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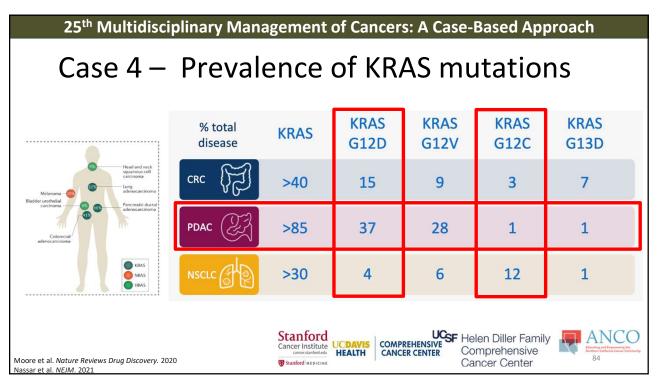
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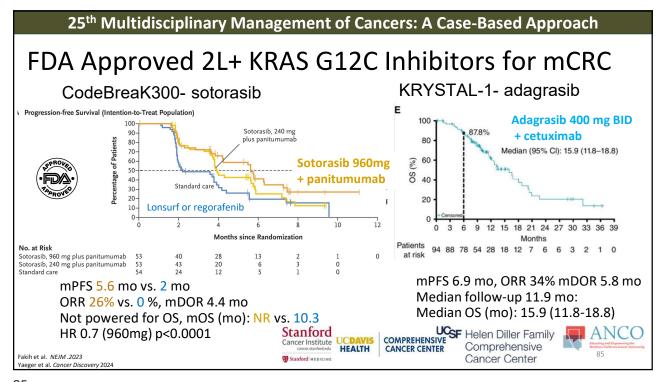
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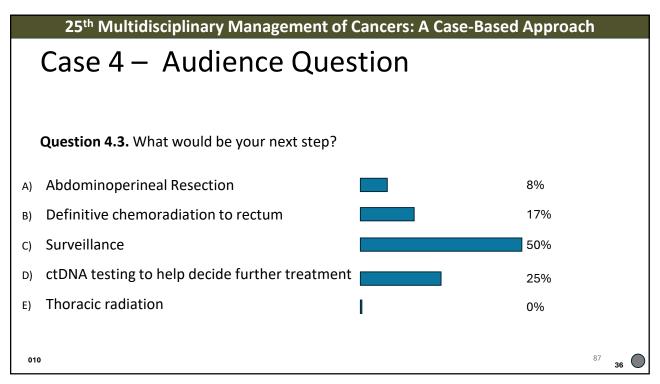
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Case 4 – Gastric Cancer Panel Discussion

- Do you have preference for adagrasib vs. sotorasib and why?
- When would you consider chemoradiation and surgery for the primary tumor in the setting of metastatic rectal cancer?









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Case 4 – Rectal Cancer

Patient is currently completing long course chemoradiation and referred to Phase 1 clinic for consideration for KRASg12C trials.

Plan for restaging and discussion of definitive ablation or resection of lung lesions vs. continuing systemic therapy with adagrasib + cetuximab.









Case 4 –Summary for Rectal Cancer

- 1. Two newly FDA approved KRAS inhibitors for KRAS G12C mutated tumors as second line with many ongoing and future trials moving to first line and others focusing on more prevalent KRAS G12D KRAS G12V mutations.
- 2. Can consider induction chemotherapy for patients with oligometastatic disease, but TNT approach can still be pursued.







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Colorectal Cancer Trials

Current Trials Future Trials

Kaiser Permanente

Adjuvant Chemotherapy Based on Evaluation of Residual Disease (CIRCULATE-US)

- 2nd+ line: Neratinib/Trastuzumab-deruxtecan for HER2+ GI cancers
- 2nd+ line: AZD0022 (KRAS G12D inhibitor) +/- chemo
- 2nd+ line: INCB161734 (KRAS G12D inhibitor) +/- chemo

UCSF

- A Phase II Study of Preoperative Immunotherapy in Patients With Colorectal Cancer and Resectable Hepatic Metastases
- Phase 1 Multicenter Study Evaluating the Safety and Tolerability of GCC19CART for Subjects With Relapsed or Refractory Metastatic Colorectal Cancer

UC Davis

• Adjuvant Chemotherapy Based on Evaluation of Residual Disease (CIRCULATE-US)

Case 5 – Biliary Tract Cancer

- How common is HER2+ in cholangiocarcinoma and gallbladder cancer and what is the biology?
- What are the data for FDA approved HER2-directed therapies in biliary tract cancers?









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Case 5 – Biliary Tract Cancer

70 y.o. female with PMH of post-COVID bronchiolitis obliterans organizing pneumonia, dx 2023, now off immunosuppression, presents to pulmonology clinic with mild abdominal discomfort. ECOG 1

Tbili 4/ AST 1779/ ALT 671/ Alk Phos 1198

Abdomen US: No bile duct dilation. Gallbladder sludge and small stones without definitive evidence of acute cholecystitis.











25th Multidisciplinary Management of Cancers: A Case-Based Approach Case 5 — Patient Case

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Case 5 - Patient Case

ERCP: single biliary stricture in the common hepatic duct. A biliary sphincterotomy performed. One plastic stent placed into the common hepatic duct.

Porta Hepatis LN biopsy: Involved by adenocarcinoma, pMMR, HER2 by IHC 3+, CK7 +, CK20 +, PAX8-, TTF-1-





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25th Multidisciplinary Management of Cancers: A Case-Based Approach Case 5 — Audience Question Question 5.1 What would you do as next step? A) Expedite molecular profiling | 0% B) Initiate first line systemic treatment | 0% c) Enroll in clinical trial | 0%

25th Multidisciplinary Management of Cancers: A Case-Based Approach Frequency **HER2** in Biliary Tract Cancers of HER2 of HER2 Alteration Alteration (S. Korea) (Europe) Intrahepatic 4.2% Cholangiocarcinoma Extrahepatic 13.9% 9.7% Cholangiocarcinoma Gallbladder Cancer 36.4% Ampulla of Vater 18.2% Stanford Rockland.com HEALTH | CANCER CENTER Comprehensive Ayasun et al. Cancers 2023 Cancer Center Albrecht et al. BMC Cancer 2019

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Case 5 — Audience Question Question 5.2 What would you use for first line treatment? A. Gemcitabine/Cisplatin/Durvalumab or pembrolizumabl B. Gemcitabine/Cisplatin/Trastuzumab C. Gemcitabine/Cisplatin/Trastuzumab/Pembrolizumab D. FOLFOX/Trastuzumab E. 5-FU/Cisplatin/Trastuzumab/Pembrolizumab (KEYNOTE-811 from gastric)

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25th Multidisciplinary Management of Cancers: A Case-Based Approach

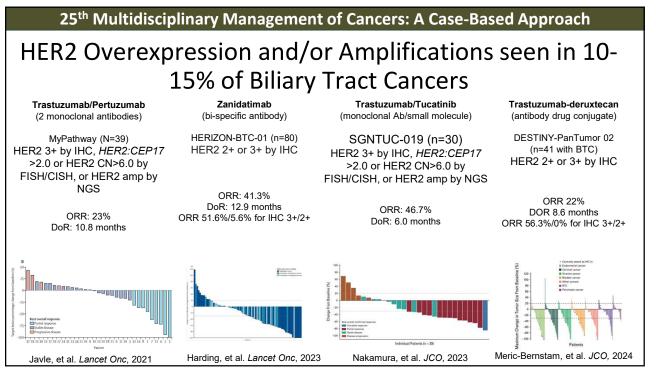
Case 5 – Patient Case

- Gemcitabine/cisplatin/trastuzumab sent for authorization, trastuzumab denied and sent for appeal
- Sent to ED for episode of cholangitis with Enterobacter cloaca bacteremia and stent migration given i.v. antibiotics + bilateral PE requiring therapeutic anticoagulation
- Gemcitabine/cisplatin for two cycles, Trastuzumab approved and added during Cycle 2
- Patient was admitted for second episode of cholangitis with Serratia maraceans and given i.v. antibiotics



Case 5 — Panel Discussion Question 5.3 What would you use for second line treatment? A) Trastuzumab-deruxtecan (Enhertu) | 0% B) Perjeta/Trastuzumab | 0% C) Zanidatamab | 0% D) FOLFOX/Trastuzumab | 0% E) Ado-trastuzumab (T-DM1) | 0%

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Case 5 - Patient Case

Received second dose of trastuzumab, chemotherapy held due to ongoing antibiotic treatment. Pertuzumab appealed for authorization.

Within 2 weeks, presented with a nosebleed, word finding difficulties

- CT Head: bilateral subdural hematomas secondary to therapeutic anticoagulation
- Septic shock and admitted to the neuro ICU
- Not a surgical candidate
- Transitioned to inpatient hospice-> passed on Day 9 of admission.
- 5 months survival since diagnosis







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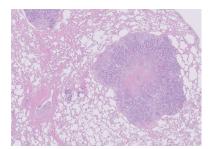


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Case 5 - Patient Case

Patient gifted her body to science for the rapid autopsy program and on gross review: the entire liver replaced by tumor, mostly necrotic, with innumerable small metastatic lung lesions (image)











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Case 5 – Summary for Biliary Tract Cancer

- HER2 staining should be conducted at time of initial pathology diagnosis on all GI tumor tissues
- HER2 targeted treatment approved in the 2L, would consider famtrastuzumab deruxtecan (Enhertu)
- There are increasing numbers of HER2 targeted options and would consider 1L HER2 BTC clinical trials









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Cholangiocarcinoma Trials

Current Trials

Stanford

- · Neoadjuvant/Perioperative: OPT-IN chemotherapy around re-resection for incidental gallbladder cancer
- Adjuvant: Rilvegostomig (bispecific Ab against PD-1 / TIGIT) + chemo vs chemo
- 2nd+ line: Neratinib/Trastuzumab-deruxtecan for HER2+ GI cancers
- 2nd+ line: AZD0901 Claudin 18.2 antibody drug conjugate
- 2nd+ line: CGT4859 (FGFR2/3 inhibitor) for FGFR-altered tumors
- 2nd+ line: INCB161734 (KRAS G12D inhibitor) +/- chemo
- 3rd+ line: Tinengotinib (FGFR inhibitor) in FGFR-fusion+ cholangiocarcinoma

UCSF

- 1st line: T-DXd and Rilvegostomig versus Gemcitabine, Cisplatin, and Durvalumab for Advanced HER2+ BTC
- 3rd + line: TYRA-200 in Intrahepatic Cholangiocarcinoma and Other Solid Tumors with FGFR2 Alterations (SURF-201)









GI Multi-Histology Trials

Current Trials Future Trials

- 2nd+ line: CGT4859 (FGFR2/3 inhibitor) for FGFR-altered tumors
- 2nd+ line: Neratinib/Trastuzumab-deruxtecan for HER2+ GI cancers
- 2nd+ line: AZD0901 Claudin 18.2 antibody drug conjugate
- 2nd+ line: AZD0022 (KRAS G12D inhibitor) +/- chemo
- 2nd+ line: INCB161734 (KRAS G12D inhibitor) +/- chemo
- 2nd+ line: Phase 1 TYRA-430 in HCC and Other Solid Tumors with Activating FGF/FGFR pathway aberrations (SURF-431)

- Phase II Study of Hypofractionated Radiation Therapy to Augment Immune Response in Patients With Metastatic Gastrointestinal Malignancies Progressing on Immune Therapy (ARM-GI)
- Phase I/II FMC-376 in Participants with KRAS G12C Mutated Locally Advanced Unresectable or Metastatic Solid Tumors
- Phase I Dose Escalation and Expanded Cohort Study of P-MUC1C-ALLO1 in Adult Subjects With Advanced or Metastatic Solid Tumors
- Phase I of AZD3470, a PRMT5 Inhibitor, in Patients With MTAP Deficient Advanced/Metastatic Solid Tumors (PRIMROSE)
- Phase I Study of Autologous CD8+ and CD4+ Engineered T Cell Receptor T Cells in Subjects With KRASG12V Advanced or Metastatic Solid Tumor

• 2nd + Line: Phase 1 ceraleserib + trastuzumab deruxtecan for HER2+ cancers

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Thank You to our patients, panel speakers, audience participants, and ANCO conference organizers







