

in pancreaticobiliary cancer

Knight Cancer Network Symposium 3/12/2021

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### **Important Elements of Treating PDAC**

- 1) Timely referral and appointments
  - Median time from referral to consultation 5 days (range 0-28)
- 2) Multidisciplinary management (ie tumor board)
  - Held weekly on Tue evening
  - Surgery, Med/Rad Onc, Pathology, Radiology, Trainees, Nurses
- 3) Check lists/templates
  - Pancreas-protocol CT staging template (not older than 6 wks)
  - Selective EUS with stent/biopsy (within 48-72 hrs)
  - Re-review of outside path reports
- 4) Genetic counseling, nutrition support for all patients

### **Important Elements of Treating PDAC**

- 4) Consider neoadjuvant therapy for:
  - High risk resectable (high CA 19-9, large tumor, concurrent illness)
  - Borderline
  - Locally advanced disease
- 5) Aggressive pancreatectomy with vascular resection (if warranted)
- 6) Minimize morbidity and enhance recovery
- 7) Novel therapeutics evaluated thru clinical trials
- 8) Palliative care and psychosocial support

#### **Pancreas CT Staging template**

- Location of Tumor (where majority of tumor is located).
  - Uncinate parenchyma posterior to SMV/PV
  - Head parenchyma between uncinate and neck
  - Neck parenchyma anterior to the SMV
  - Body closest 50% of the parenchyma to left (upstream) of neck
  - Tail furthest 50% of parenchyma to the left (upstream) of the neck
- Tumor Size (maximum length in transverse, coronal, or sagittal plane)
- Vascular Involvement:
  - Vessels evaluated: SMV, Splenic V & A, Portal, Celiac, SMA, Hepatic Artery
  - Tumor involvement is graded by highest degree of involvement
    - None no evidence of tumor contact.
    - Abutment Tumor contact 1–180° with vessel circumference
    - Encasement Tumor contact 181–360° with vessel circumference
    - Occlusion No contrast enhancement (regardless of degree of tumor contact)

#### Liver Assessment

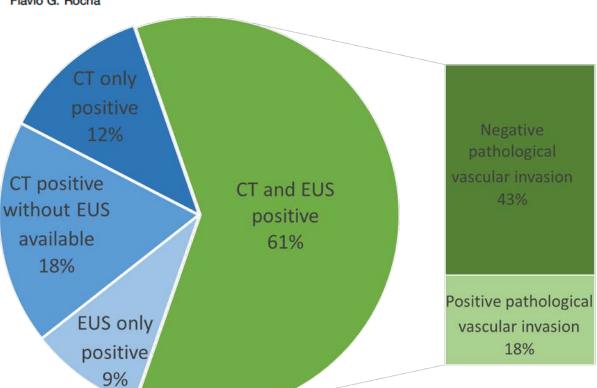
- Normal
- <u>Benign</u> Presence of hepatic lesions that are benign (cysts, hemangiomas, etc) based on their imaging features. High degree of confidence that observation is benign
- Indeterminate Lesion(s) of uncertain etiology that are of indeterminate probability for metastasis
- Suspicious Finding that is probable (>50% likelihood) but not definitely metastasis.
- <u>Consistent with Metastasis</u> radiologist is virtually 100% certain that lesion represents a metastasis. If there is doubt then lesion should be classified as suspicious.
- Ascites. Presence or absence of ascites should be noted. If there are any findings suspect for peritoneal disease these should be noted.
- Lymphadenopathy: (peri-pancreatic, para-aortic, celiac, distant)
- Short axis length of 8A lymph node (pre-hepatic artery)
- Bowel involvement (duodenum, stomach, jejunum, colon)

# EUS by local experts

- 1) Obtain tissue biopsy with in room path evaluation of specimen (core bx)
- 2) Examine local mesenteric vasculature
  - 1) Portal vein, SMV, Splenic V, IVC
  - 2) Celiac axis, SMA, Aorta
- 3) Staging
  - 1) Liver metastases
  - 2) Peritoneal disease (ascites, carcinomatosis)
  - 3) Celiac, Hepatic artery and aortocaval lymph nodes
- 4) Palliation
  - 1) CBD- Plastic vs metal stent, choledochoduodenostomy
  - 2) GI-duodenal stent vs endoscopic GJ
  - 3) Plexus block

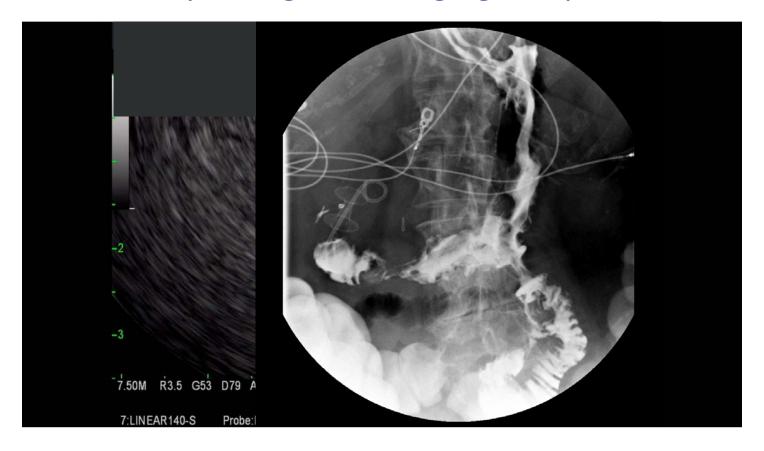
# Does mesenteric venous imaging assessment accurately predict pathologic invasion in localized pancreatic ductal adenocarcinoma? HPB 2018, 20, 925-931

Jesse Clanton<sup>1</sup>, Stephen Oh<sup>2</sup>, Stephen J. Kaplan<sup>1</sup>, Emily Johnson<sup>3</sup>, Andrew Ross<sup>4</sup>, Richard Kozarek<sup>4</sup>, Adnan Alseidi<sup>1</sup>, Thomas Biehl<sup>1</sup>, Vincent J. Picozzi<sup>2</sup>, William S. Helton<sup>1</sup>, David Coy<sup>3</sup>, Russell Dorer<sup>5</sup> & Flavio G. Rocha<sup>1</sup>



1/3 of upfront "resectable" PDAC required mesenteric venous resection

## Endoscopic diagnosis, staging and palliation



#### Virginia Mason Pancreatic Head Mass Multidisciplinary Pathway Virginia Mason: Work up done @ VM or placed into VM electronic record (see Key) KEY Labs: CBC, CMR, CA19-9, CEA, PT, CRP, Serum vit D3, HgbA1c. RAD: CT Panc protocol/chest, pelvis ctt 00 = (These labs need to be done @ VM) CL = Of outside CT is < 4 wits old -> VM Rad consult for official read using staging template, Medical Oncology Consult #>4 win old -> CT Panc &VM. Must state YES "use Pencreas staging template" in order) Evidence of Metastatic Disease? Tissue bx (2° recommended) Note that if outside CT quality does not allow EUS or CT/US guided or laparoscopy for use of staging template, then radiology will state that in read and a CT panc @ VM is peeded B= If any of these are available from outside Cystic Mass or Atypical presentation? hospital & are < 6 witz old then nothing is Atypical Presentation: Follow Cystic Mass Pathway 0 Unclear Dx YES OR GI consult for WU and Benign stricture 0 Autoimmune Pancreatitis EUS/ERCP as indicated Mass w/ Cystic Component: **Med Oncology Consult and Surg Consult** Resectability and Higher Risk Factor Margin Factors & Patient Factors ☐ Bulky tumor > 4.5cm tumor with higher risk of RI resection ☐ Vascular (arterial) abutment NO to all YES to any Portal Venous Distortion Patient factors: high cardiopulmonary risk ☐ Vascular encasement or tumor thrombus ☐ Concomitant Mod-Severe Pancreatitis ☐ CA 19-9 > 37 (unobstructed & @ VM) For All Patients For Patients with Bilary Obst Medical Oncology consult for Neoadj Therapy · GI consult: ☐ Perf. Status ≥ 2 ☐ TB ≥ 20, Get up and Go > 20 sec 1) EUS for Staging and Bx (if bx neg, repeat EUS) (Bx endoscopically positive nodes if NOT peri-pancratic) ☐ Needs extensive Cardio-pulm ☐ Evidence of symptoms or Chol-2) short metal biliary stent (if obst present) (Ideally w/u angitis within 72hrs of consult) Surgery consult: Dx Lap w/ washing, Port placement □ Alb < 3.0 ☐ Unable to schedule surgery within "7 days NO to all YES to any Restage after Neoadi tx Metastatic Disease: Remains locally Med Onc & HPB sur-GI consult: Biliary stent Continue w/ medical gery consult for re-No Metastatic Disease: adv: HRB surgery: optimization oncology for chemo · GI tumor board presentation •Neosdi chemo section and eventual operation Vs supportive care · Absence of progression, XRT consult (no stent, no bx) <180° on SMA, & reconstruc-Dx Lap + cytology Palliative care consult Palliative care consult table PV -> proceed to intraop Palliative care μ) GI to consider NJ feeding (2 surgeon if needed assessconsult ment of resectability Reconsult by HPB surgery Consider Clinical Trials Tumor board for ecommendations of Resection adjuvant therapy and follow-up.

VM Neoadjuvant Arm

VM Resection Arm

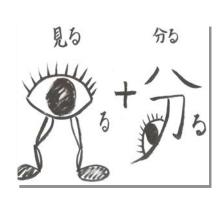
# Quality Improvement



## The History of TPS and VMPS

- Measure observations
- Mistake proofing
- Automation
- Reduced downtime
- Walk the factory floor (genba)
- Reduced waste (muda)
- Incremental improvement (Kaizen)



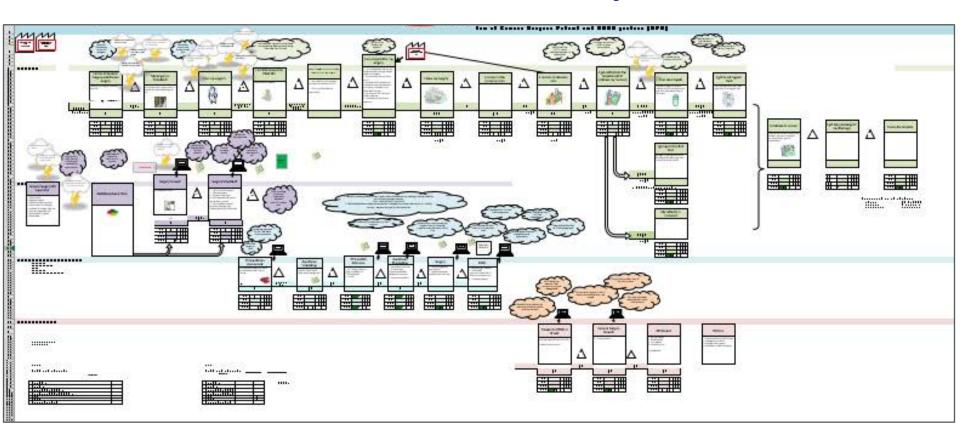








## **Value Stream Map**



## Telehealth Visioning session

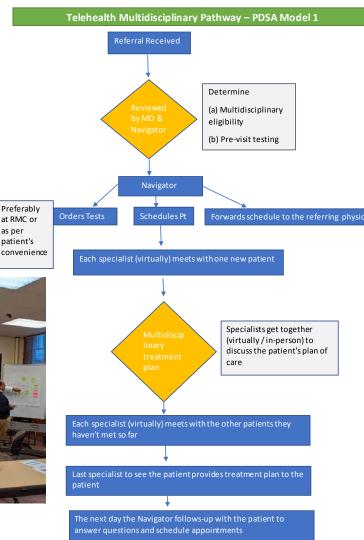
| <ul> <li>Intuitive and<br/>Reliable<br/>platform</li> </ul> | <ul> <li>HIPPA and<br/>Privacy</li> </ul>                          | <ul> <li>Flexible<br/>provider<br/>schedules</li> </ul> | <ul> <li>Access to multidisciplinary care</li> </ul> |
|---|--|---|--|
| Payment /     Insurance     Coverage                        | <ul> <li>Tech support<br/>and training<br/>for patients</li> </ul> | Platform leader   | Warm     handoffs/ MA     to setup                   |



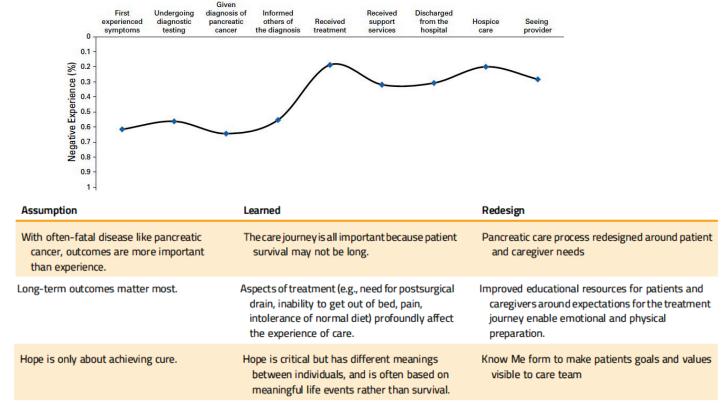


Preferably

at RMC or as per patient's



#### Experience-Based Design for Patients With Pancreatic Cancer



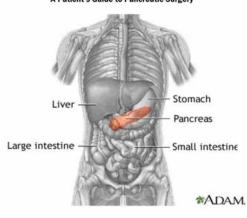
Hagelson et al, JOP 2016

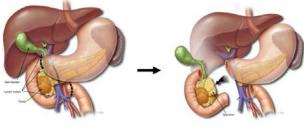
# Patient/Caregiver Education

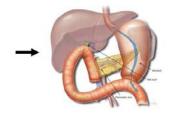


Tumors in the head of the pancreas require removal of the entire head of the pancreas, along with the duodenum, the gallbladder, and part of the bile duct. A complex reconstruction is then undertaken, where your stomach, pancreas, and bile duct are all reconnected to your small intestine.

### Understanding Your Pancreas A Patient's Guide to Pancreatic Surgery



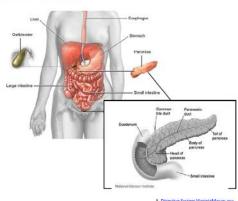




#### ABOUT YOUR PANCREAS

The pancreas is an organ located in the back of your abdomen, behind your stomach and underneath your liver. It has three parts: the head, the body and the tail. The head of the pancreas is closest to your right side. The tail is closest to your left side. Important functions of the pancreas include:

- Making enzymes that mix with your food and aid in digestion of proteins, fats, and sugars.
- Making hormones, such as insulin, that enter the bloodstream and regulate your body's metabolism



B. Illustrator Ron Ros

VIRGINIA MASON MEDICAL CENTER



### We want to hear from you!



Dear Patient,

Pancreatic cancer is a difficult disease. Each person deals with their diagnosis differently. Some people desire very detailed information all at once, while others want a little bit of information at a time. No one can ever be fully prepared.

I he attached tool was developed by patients, their families and team members. It is a way to help us understand you as a unique person, and is meant to help you work through needed conversations with yourself, your caregivers, family, friends, providers and care team.

The tool strives to empower you as you deal with this difficult disease. You can decide how to use it: you can complete and share it right now, or you can take it home, talk about it with loved ones, and bring it back next time. Use the back if you need more room. Please don't feel like you need to have all the answers figured out; what you are feeling right now is what is important. The idea is to start the conversation so that we can be realistic with your goals as you know them today.

We want to know you, your values, symptoms, beliefs and preferences. We want to hear about you and what you are feeling, even if you don't think it's important. During the course of your treatment, your goals may change. With your input, we will aim to give you the right information, in the right amount, at the right time.

We understand that this conversation is ongoing, and look forward to updating this information together with you. The information you complete on this form will guide your care and your decision making, and help us honor you and your personal life goals.

Your Virginia Mason Pancreatic Cancer Care Team

"Know Me" Intake Form

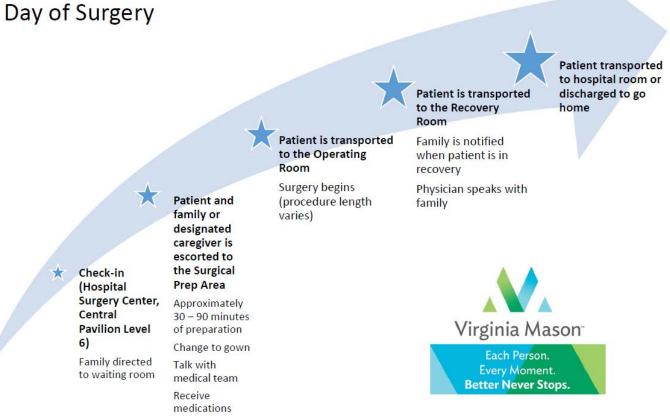
| ) The best way to reach me is:  | O Email:   |   |  |  | O MyVM  |
|---|--|---|--|--|---|
| O Home Phone:   | O Cell Phone:  |   |  | Other:   |   |
| ) Who matters most to me:   |  |   |  |  |   |
| My circle of support includes:  |  |   |  |  |   |
| 4) My goals of care are:  |  |   |  |  |   |
| s) My greatest hope is:   |  |   |  |  |   |
| 6) My greatest fear is:   |  |   |  |  |   |
| 7) Information I will need include  | 15:  |   |  |  |   |
| B) My strengths at this time inclu  | ide:   |   |  |  |   |
| 9) Ubstacles to my care at Virgini  | la Mason Include:  |   |  |  |   |
| 10) At this time I prefer to be given   | : O Detailed Infor   | mation () Ge  | eneral description   | ons  |   |
| 11) I feel I understand my diagnos  | is: O Completely   | O Very Well   | O Not Sure   | O A Little   | O Not at All  |
| 12) I feel I understand my prognos  | ils: O Completely  | O Very Well   | O Not Sure   | O A Little   | O Not at All  |
| 13) I feel I understand my treatme  | nt plan: () Completely   | O Very Well   | O Not Sure   | O A Little   | O Not at All  |
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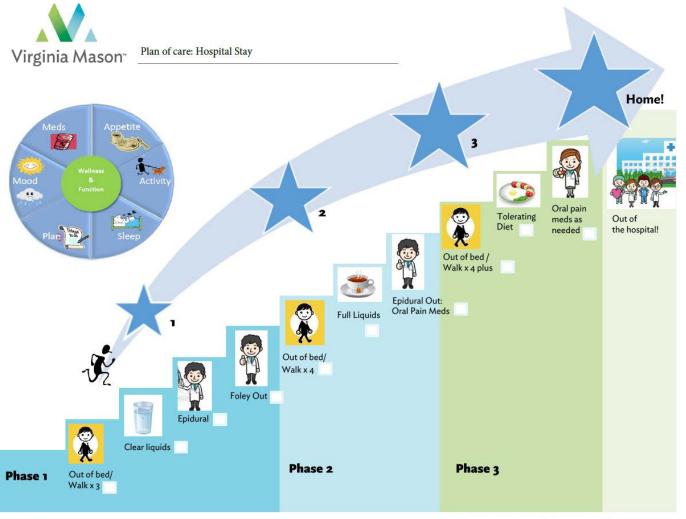
#### Plan of Care:

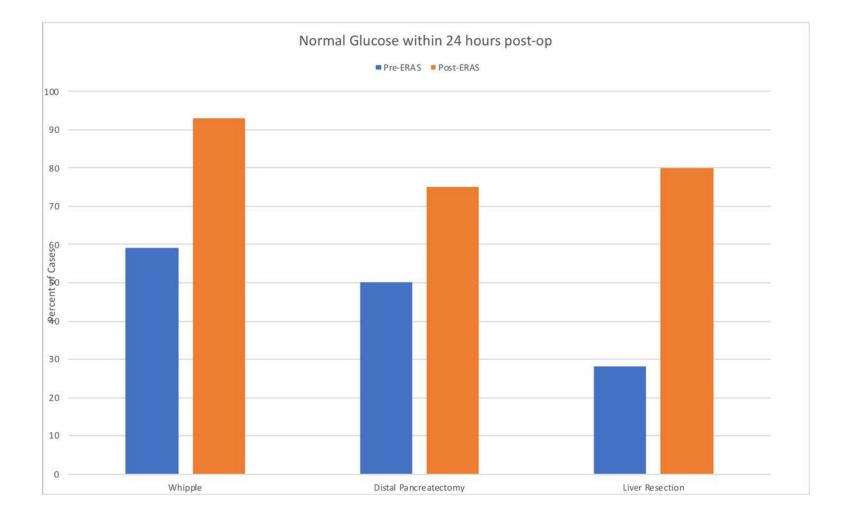


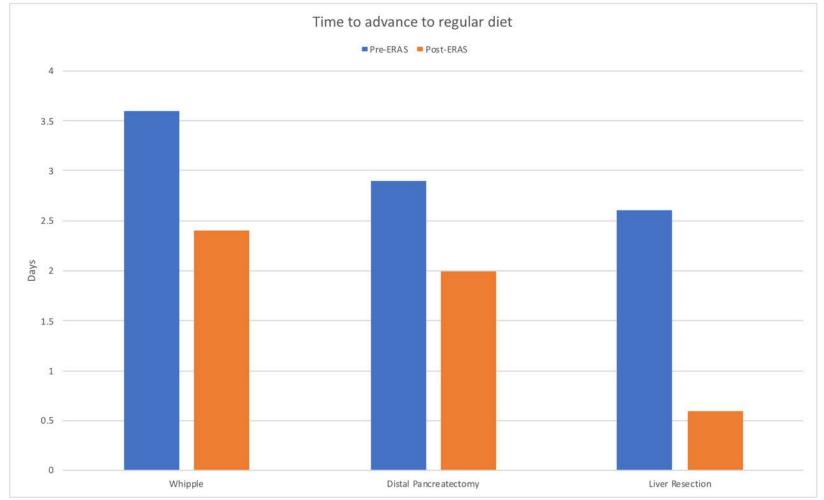
Every Moment.
Better Never Stops.

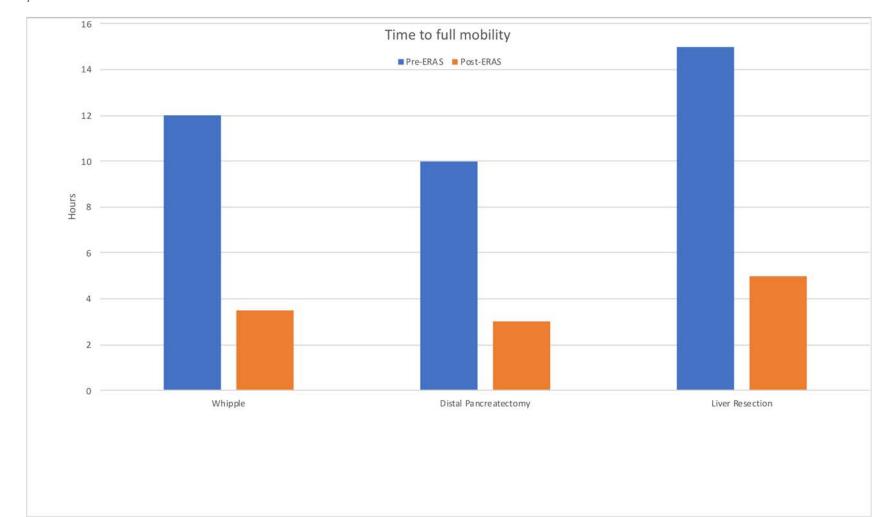
#### Plan of Care:











#### Pancreatic Cancer Care at Virginia Mason

#### Meet our team

Biographies and video interviews of our physicians are available at VirginiaMason.org.

#### GASTROENTEROLOGY







Michael Krishnamoorthi, Larson, MD





MEDICAL ONCOLOGY

Vincent Picozzi, MD









Lin, MD PANCREATIC CANCER SURGERY

Влисе



Kennecke, MD







PANCREATIC



SURGERY

RADIATION ONCOLOGY



Pham, MD



Suen, MD







PATHOLOGY Dorer, MD

Russell



**ONCOLOGY SOCIAL WORKERS** 









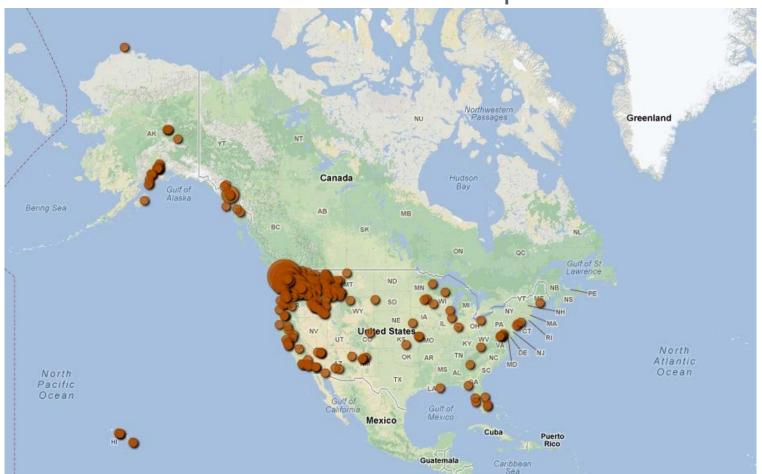
PALLIATIVE CARE Ted



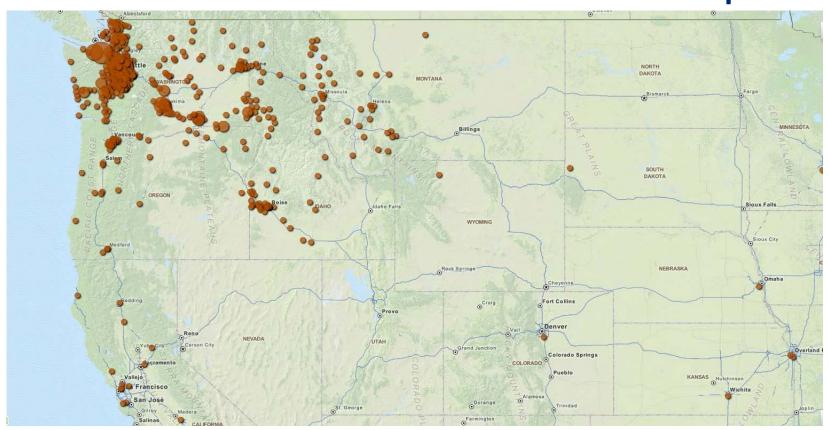
# Outreach



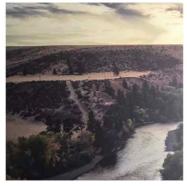
# **USA** Referral Map



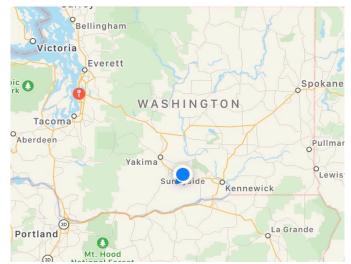
# Pacific Northwest Referral Map



# **Eastern WA Clinic**







| 2019      | # Patients | #Operations (%) | Liver | Pancreas | Other |
|-----------|------------|-----------------|-------|----------|-------|
| June      | 8          | 6 (75)          | 4     | 2        | 2     |
| July      | 4          | 3 (75)          | 0     | 0        | 3     |
| August    | 7          | 3 (43)          | 4     | 0        | 3     |
| September | 8          | 5 (63)          | 3     | 4        | 1     |
| October   | 5          | 2(40)           | 1     | 1        | 2     |
| November  | 8          | 4(50)           | 4     | 3        | 1     |
| December  | 6          | 3 (50)          | 3     | 3        | 0     |

# Alaska Outreach



# Advocacy



Advocacy Groups



# Cholangiocarcinoma Foundation www.cholangiocarcinoma.org





komodohealth

MUTATIONS MATTER



#### Many Asia prevalent tumours are orphan in West

Tumor types that are prevalent in Asia but orphan diseases in the West

Patients in US

8,000
Biliary tract cancer (BT Gastric cancer

27,000

21,000

47,000

Biliary tract cancer (BTC)
Gastric cancer
Hepatocellular carcinoma
Esophageal cancer
Cervical cancer

Patients in Asia 220,000 1,200,000 482,000 340,000 807,000

- Studies run in Asia where the majority of patients live
- Data is leveraged for approvals in US, EU and other global markets where often these are orphan diseases
- Few if any approved therapies for these indications

Slide Courtesy: Bertil Landmark, Aslan Pharmaceuticals

### Khon Khaen University, Thailand



2018 2<sup>nd</sup> AP Conference, Bangkok, Thailand Satellite meetings in Busan, Korea and Shanghai, China











National Institute of Cancer Research, National Health Research Institutes



# 3rd Asia-Pacific Cholangiocarcinoma



Conference







Mar. 15-16, 2019

Taipel, Taiwan



LIVE AND ON-DEMAND



# cholangiocarcinoma foundation ANNUAL CONFERENCE

MARCH 31 - APRIL 2, 2021



# THE PATIENT PERSPECTIVE TO CANCER CARE: BETTER ALIGNING PHYSICIAN EXPECTATIONS WITH PATIENTS' WISHES

#### **MELINDA BACHINI**

**CCF ADVOCACY COORDINATOR** 

Cassadie Moravek, Stacie C. Lindsey, Julie Fleshman, Flavio G. Rocha, Shishir K. Maithel

46 question survey

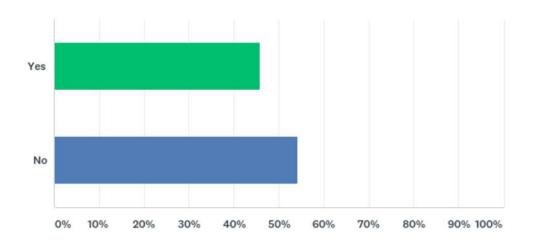
1,011 patients completed





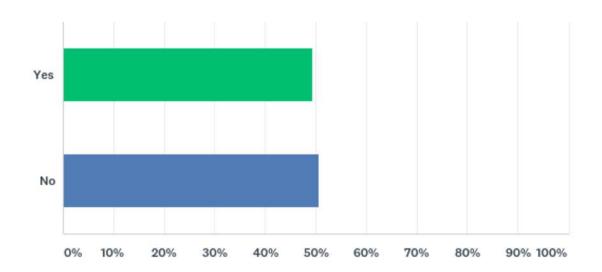
#### **SOCIAL SUPPORT**

Q13 Does your support network affect your decision-making in treatment options?



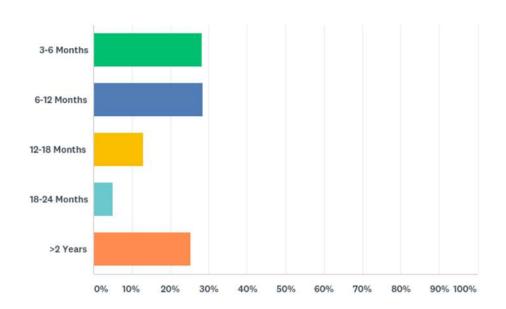
#### **SURGERY**

Q22 Would you have surgery even if there was no chance for cure?



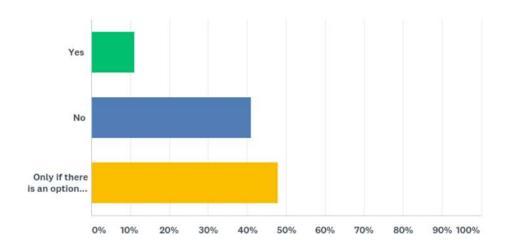
#### **NON-SURGICAL THERAPY**

Q27 If yes, how long would you be willing to endure the severe side-effects to increase your survival time?



#### **CLINICAL TRIALS**

Q46 Would you be willing to participate in a clinical trial even if you receive a placebo ("sugar pill")?



## Goals for treatment

#### 1) Identify earlier stage disease

Screen at risk and underserved populations timely diagnosis and multidisciplinary evaluation

### 2) Provide highest quality surgical and medical care

Expand candidate pool for curative therapy
Reduce operative morbidity, enhance recovery and deliver chemotherapy/XRT with minimal toxicity

### 3) Novel therapeutics

Develop more effective locoregional/systemic regimens Test thru clinical trials for all stages of disease 3411/21

# Goals for the system

- Evaluate processes regularly
  - Always look to improve and innovate
  - Seek feedback from stakeholders
  - Adapt to changing conditions and environment
- Engage advocacy groups
  - Help design trials
  - Reach out to target audience
  - Provide content for discussion boards/support groups
- Expand outreach
  - Offer consultative/CME services
  - Virtual tumor boards
  - Smooth referral/navigation process



# Thank You