UNDERSTANDING UPPER GI MALIGNANCIES

JP MCGHIE / MEDICAL ONCOLOGIST

DISCLOSURES

• | HAVE RECEIVED SPEAKERS HONORARIA/CONSULTING FEES FROM THE FOLLOWING COMPANIES:

- AMGEN
- CELGENE
- IPSEN
- Taiho
- I HAVE AND CONTINUE TO PARTICIPATE IN CLINICAL TRIALS, MANY OF WHICH ARE SUPPORTED BY INDUSTRY FUNDS
- I HAVE REQUESTED/RECEIVED FUNDS FROM SEVERAL COMPANIES TO SUPPORT OUR CONFERENCE (VANCOUVER ISLAND ONCOLOGY CONFERENCE)



FAIR USE

• THE PRINCIPLES OF "FAIR USE" HAVE BEEN APPLIED TO ALL MATERIALS USED IN THIS PRESENTATION.

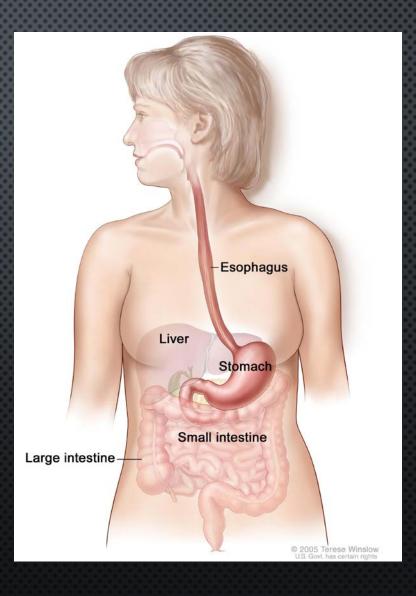
IMMORTALIZED BY FILM, MORTALIZED BY ESOPHAGEAL CANCER

- Humphrey DeForest Bogart, suffered a Cough and dysphagia in 1950's
- SOUGHT MEDICAL ATTENTION IN JANUARY 1956
- DIAGNOSED AND TREATED FOR ESOPHAGEAL CANCER IN MARCH
- DIED IN JANUARY 1957



OUR PLAN

- YOUR OBJECTIVES / MY GOALS
- INTRODUCTION TO UPPER GI MALIGNANCIES (WORLD / BC)
- SITE 1: ESOPHAGEAL
- SITE 2: GASTRIC
- SITE 3: SMALL BOWEL
- RECAP



OBJECTIVES



- 1. DISCUSS THE EPIDEMIOLOGY AND ETIOLOGY OF UPPER GI MALIGNANCIES
- 2. IDENTIFY PRESENTING SYMPTOMS OF UPPER GI MALIGNANCIES
- 3. DESCRIBE OUR CURRENT TREATMENT APPROACH FOR THESE CANCERS
- 4. DISCUSS FOLLOW UP AFTER TREATMENT OF THESE CANCERS WITH YOUR PATIENTS

MY GOALS...

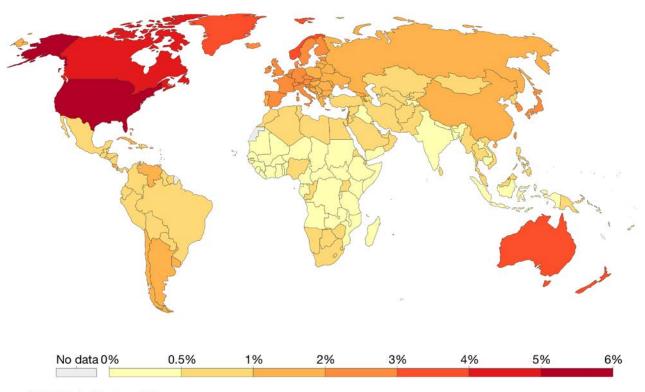
- You can imagine that this is <u>Your</u> diagnosis...
- You can decide how <u>you</u> would feel...
- You can (better) discuss these diagnoses and treatments with your patients...



Sinclair Scores 180th Goal!!!!!!!

Share of population with cancer, 2017

Share of total population with any form of cancer, measured as the age-standardized percentage. This share has been age-standardized assuming a constant age structure to compare prevalence between countries and through time.





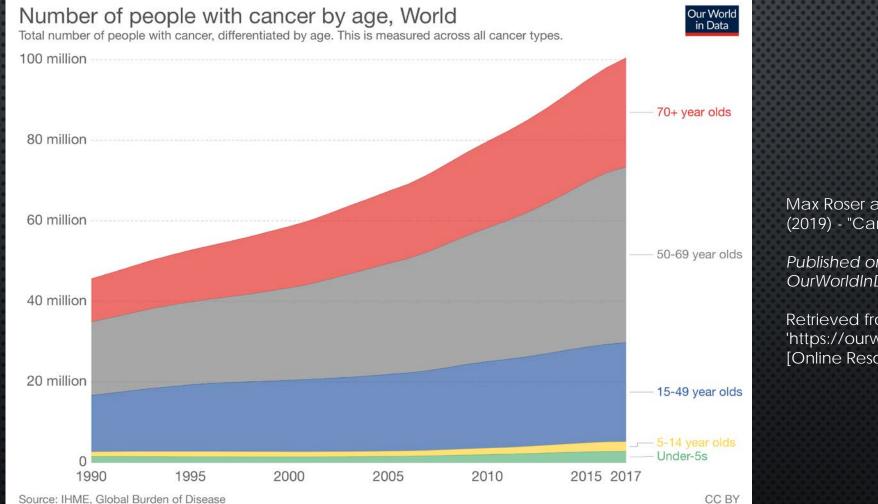
Max Roser and Hannah Ritchie (2019) - "Cancer".

Published online at OurWorldInData.org.

Retrieved from: 'https://ourworldindata.org/cancer' [Online Resource]

Source: IHME, Global Burden of Disease

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Max Roser and Hannah Ritchie (2019) - "Cancer".

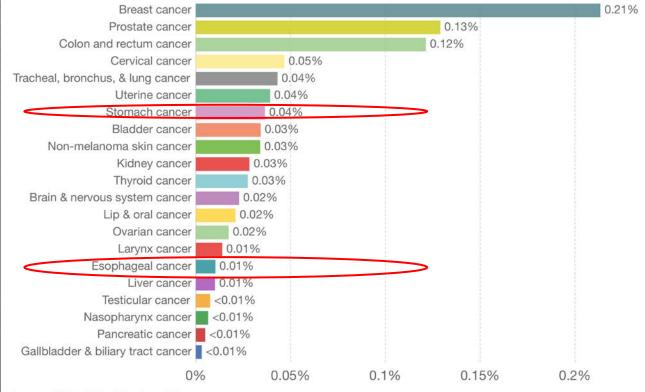
Published online at OurWorldInData.org.

Retrieved from: 'https://ourworldindata.org/cancer' [Online Resource]

Share of population with cancer types, World, 2017



Share of total population with different types of cancer over time, measured as the age-standardized percentage. This share has been age-standardized assuming a constant age structure to compare prevalence between countries and through time.

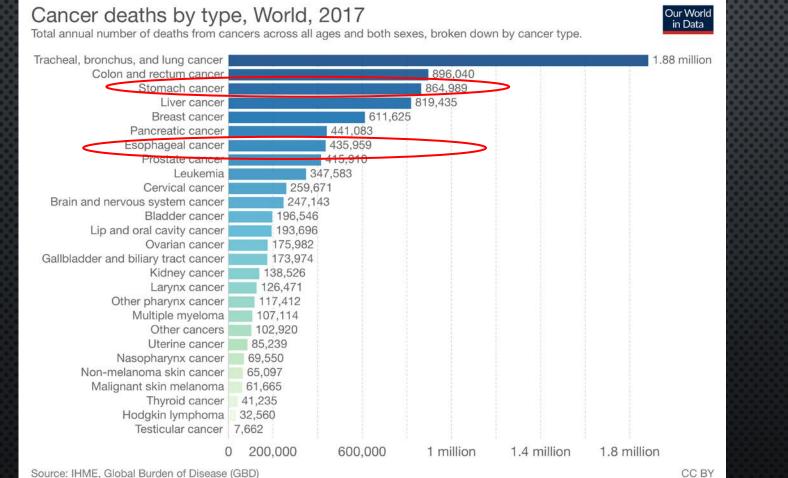


Max Roser and Hannah Ritchie (2019) - "Cancer".

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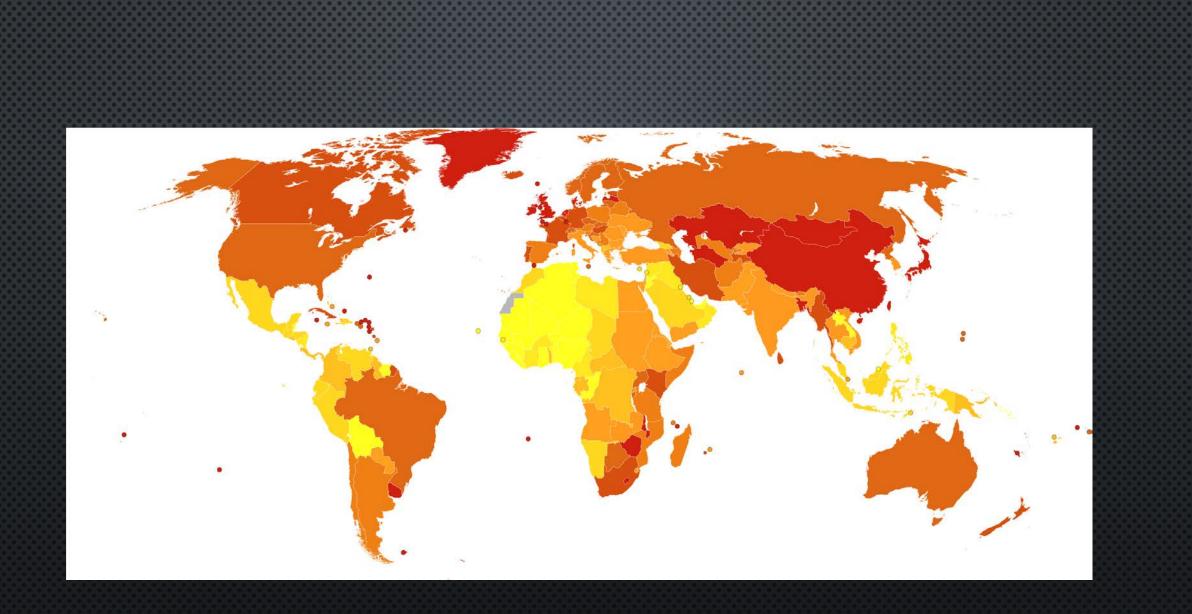
Source: IHME, Global Burden of Disease



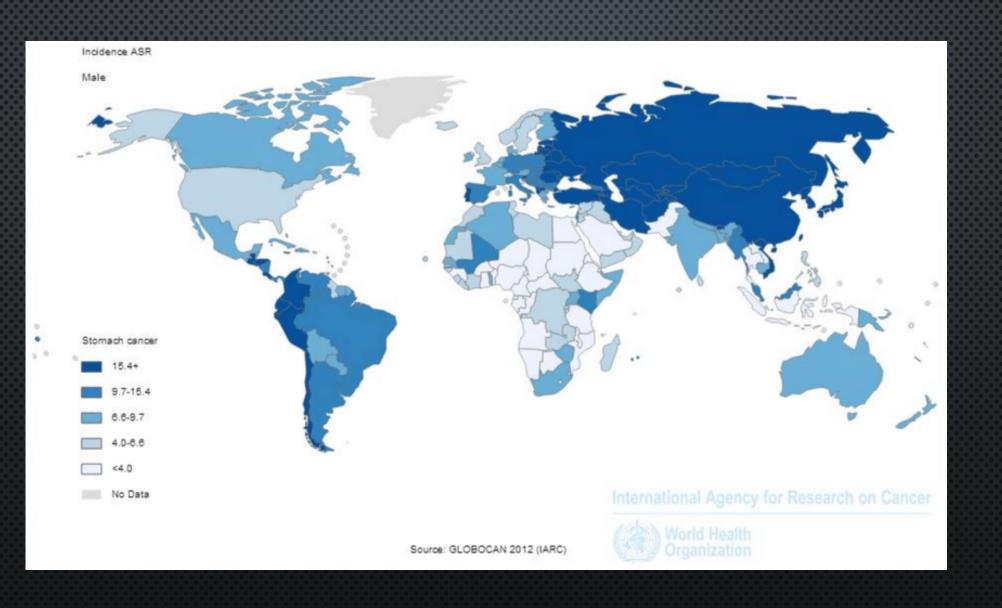
Max Roser and Hannah Ritchie (2019) - "Cancer".

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Esophageal cancer kills millions worldwide



Gastric cancer is a global issue

HERE IN BC...

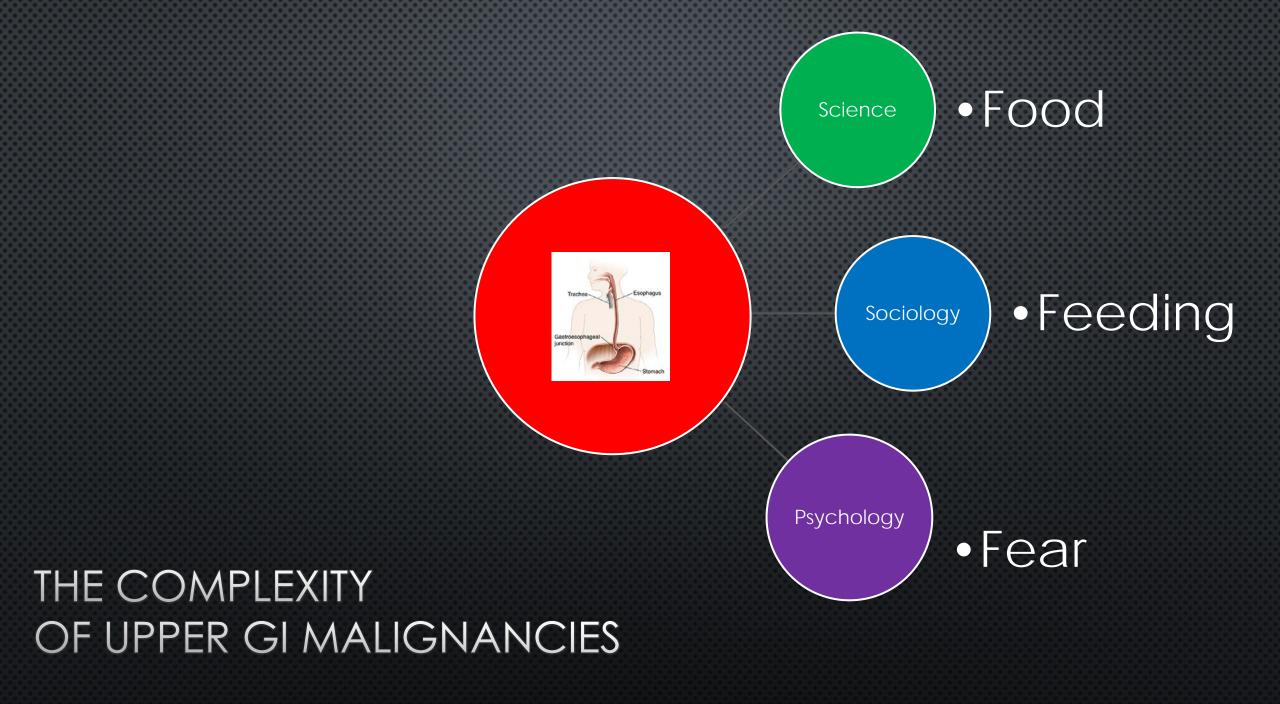
Disease Site	Incidence (per 100 000)
Colon + Rectum	66
Esophagus	10
Stomach	11
Small Intestine	2.5

From bccancer.bc.ca (2016)

QUESTION

• Should our community invest in the global health burden of these diseases?

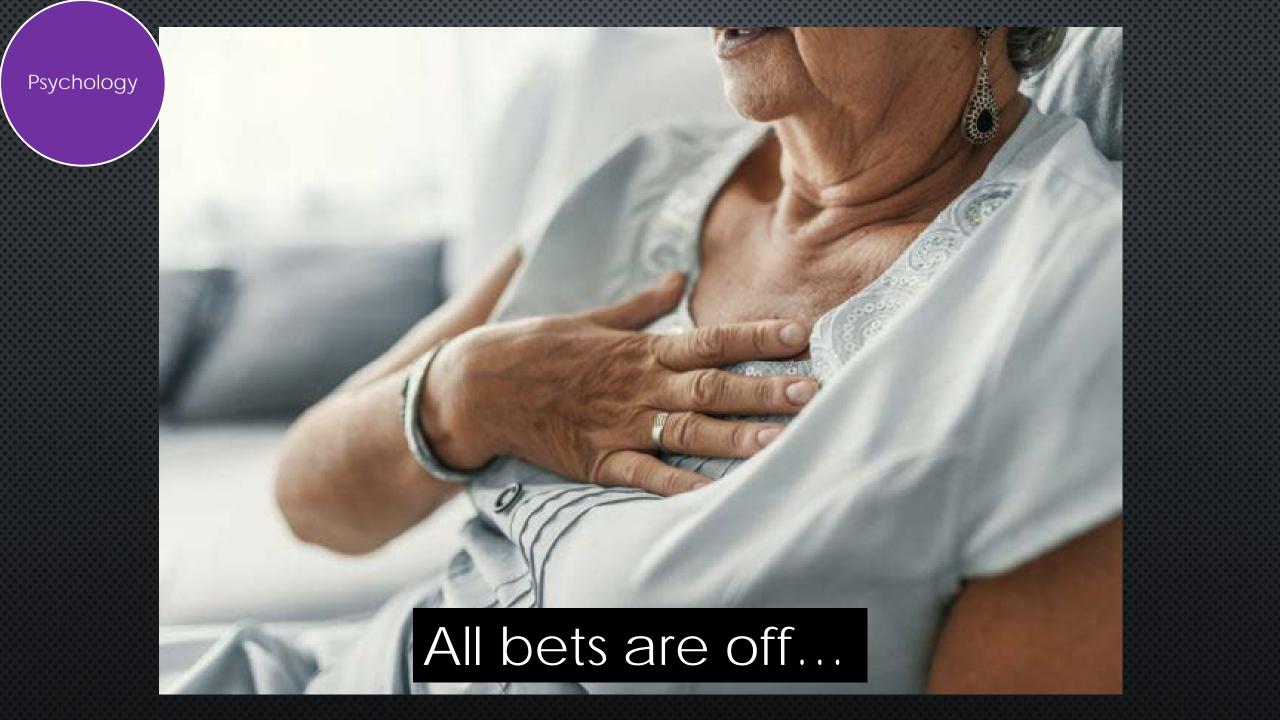
- YES
- NO

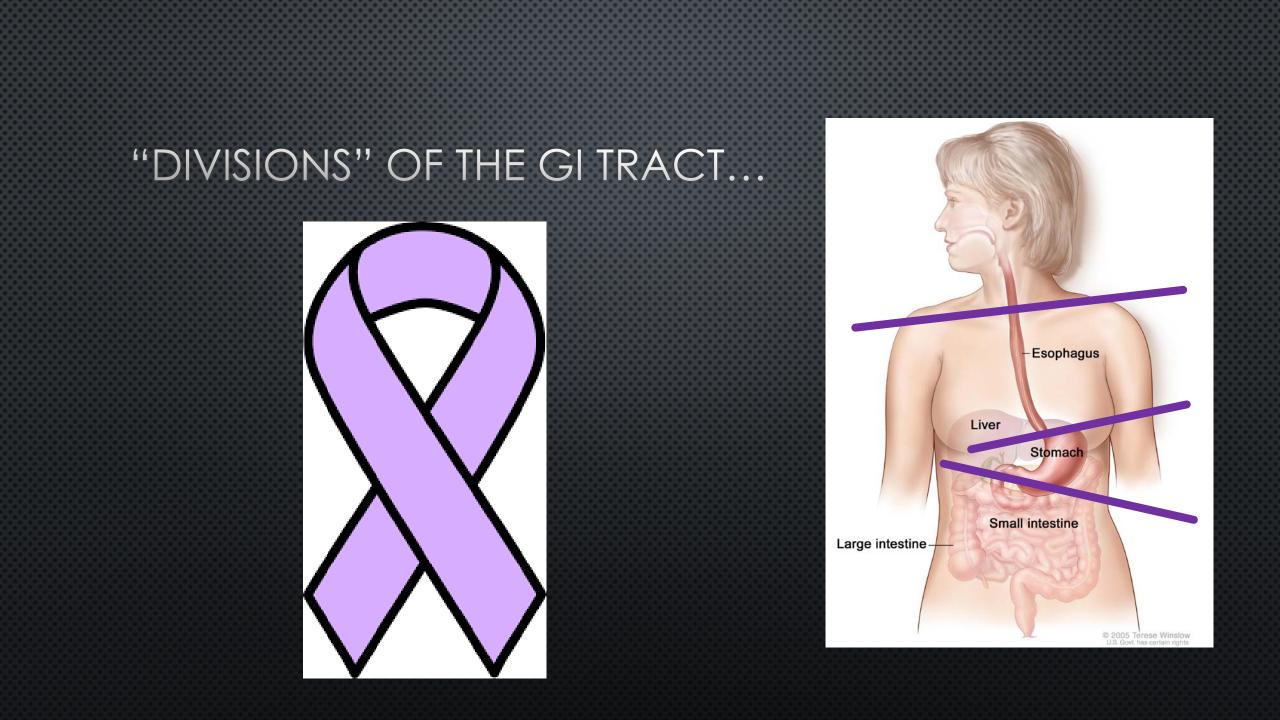




Sociology

Feeding is what we do!





ESOPHAGEAL CANCER

"RICHARD"

- RICHARD CAME TO SEE ME IN 2016...
- AFTER MANY MONTHS OF SWALLOWING DIFFICULTIES...
- THE WEIGHT LOSS WAS ALARMING

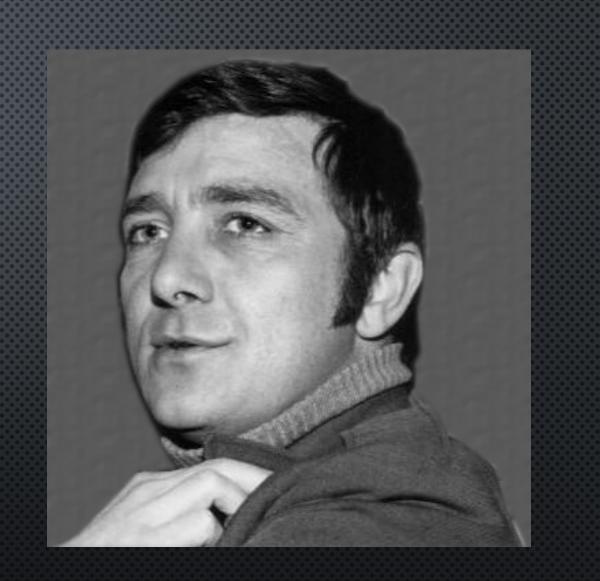
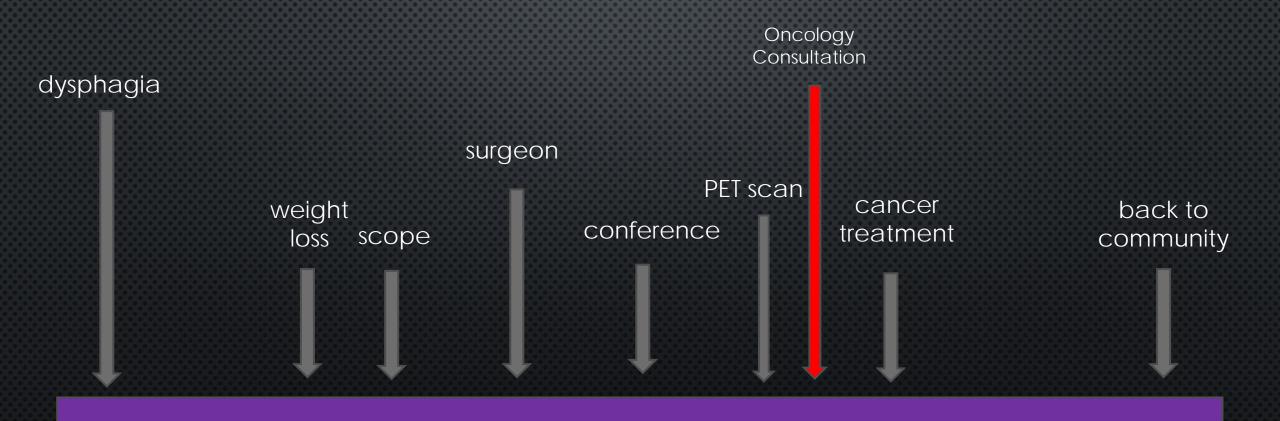
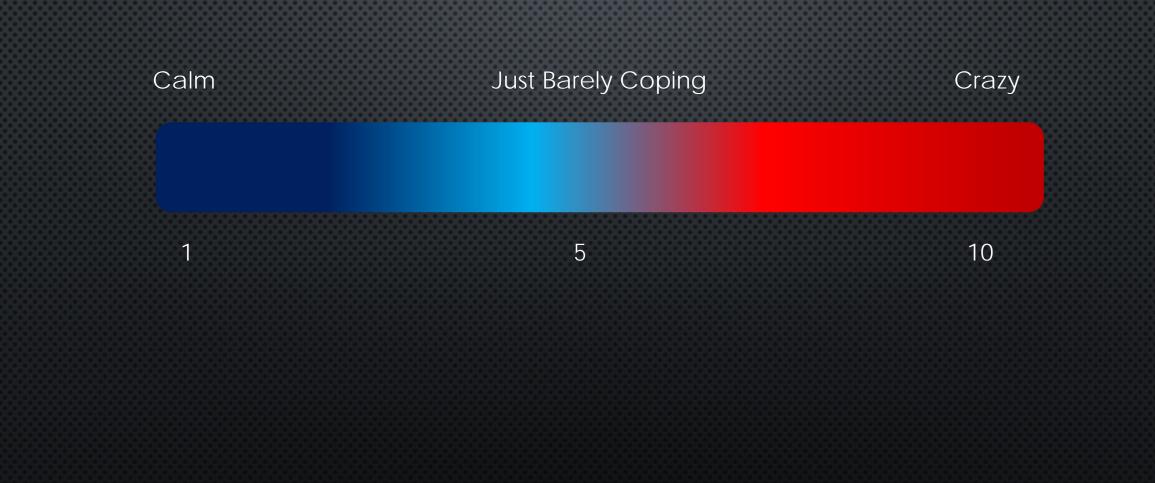


Photo from wikipedia

RICHARD'S TIMELINE

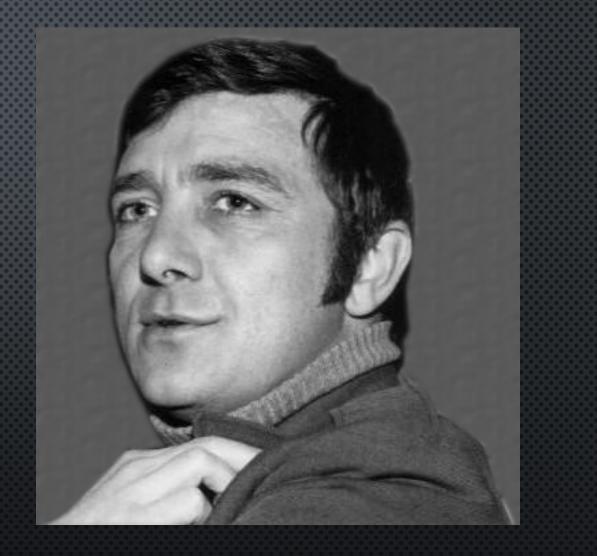


HOW WOULD YOU DESCRIBE YOUR BEHAVIOR IF THIS WAS YOUR TIMELINE?



RICHARD

- DIAGNOSED WITH SQUAMOUS CELL CARCINOMA OF THE MID-ESOPHAGUS
- PET SHOWED UPTAKE AT MID-ESOPHAGUS
 ONLY
- THORACIC SURGEON AGREES TO OPERATE



THE CROSS CLINICAL TRIAL

368 Patients with resectable esophageal or gastroesophageal cancer

 Went right to surgery

 Chemotherapy & Radiation
 Went to surgery

NEJM 2012; 366:2074-2084

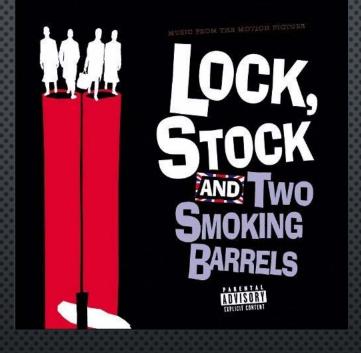
RICHARD'S TIMELINE

Resection

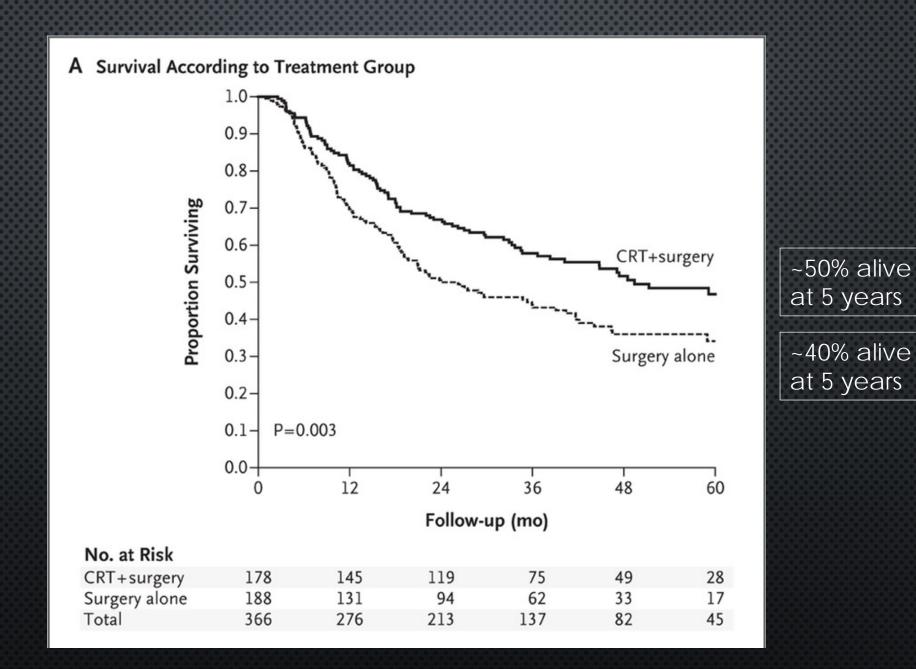
Carboplatin/paclitaxel

Radiation treatment

8 weeks later



Chemotherapy + Radiation = Dual Modality Treatment (ChemoRadiation + Surgery = Tri-Modality Treatment)



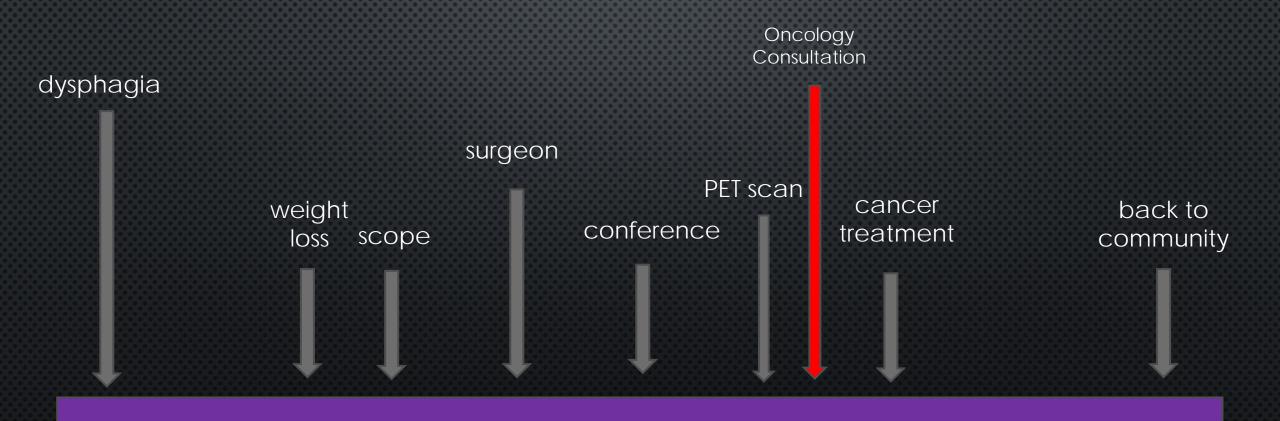
NEJM 2012; 366:2074-2084

ANOTHER QUESTION...

Would you be disappointed with these numbers?

- YES
- NO

RICHARD'S TIMELINE

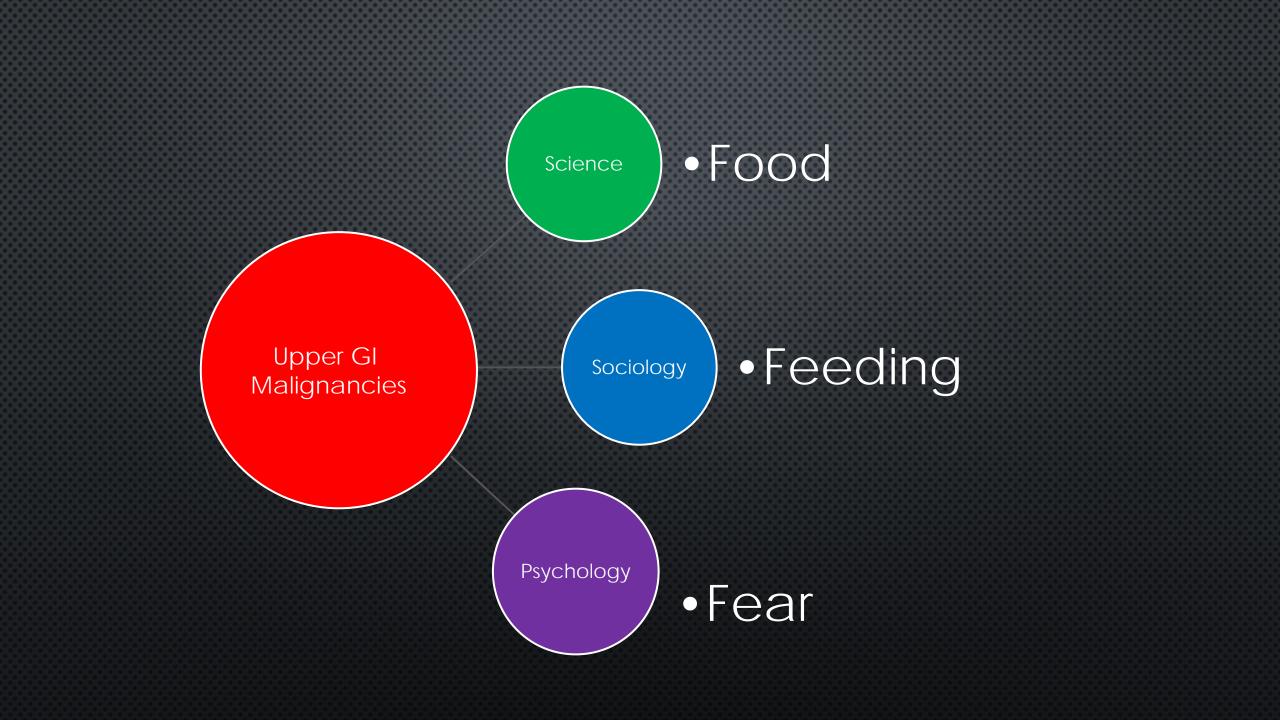


BC CAN CER

• Patients who have undergone treatment for superficial disease should have endoscopic surveillance.

7. Follow Up

- Patients who had radiation or surgery are at risk of developing esophageal strictures resulting in dysphagia which can be treated with dilation or stenting. There is no evidence that routine imaging or laboratory investigations are useful in detecting recurrences or metastases at a stage where interventions are curative. Early detection of asymptomatic metastases does not enhance survival.
- Investigations should be performed based the clinical presentation of a patient who is suspected of having recurrent or metastatic disease.



Science

THE SCIENCE

Squamous cell carcinoma

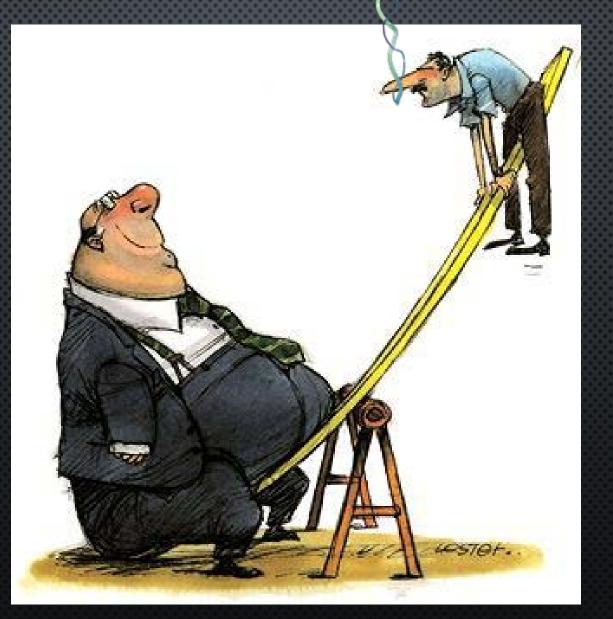
- RELATED TO SMOKING
- RELATED TO DRINKING
- DIET/REGIONAL RISK FACTORS

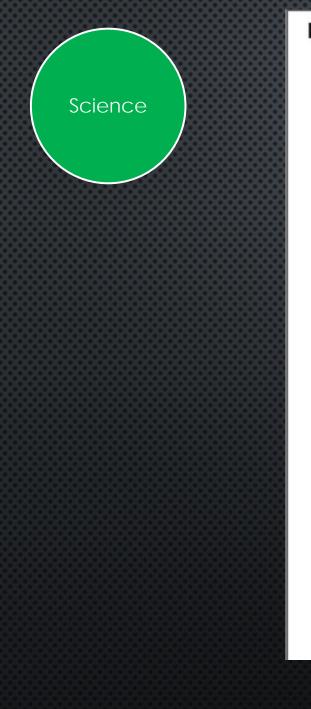
Adenocarcinoma

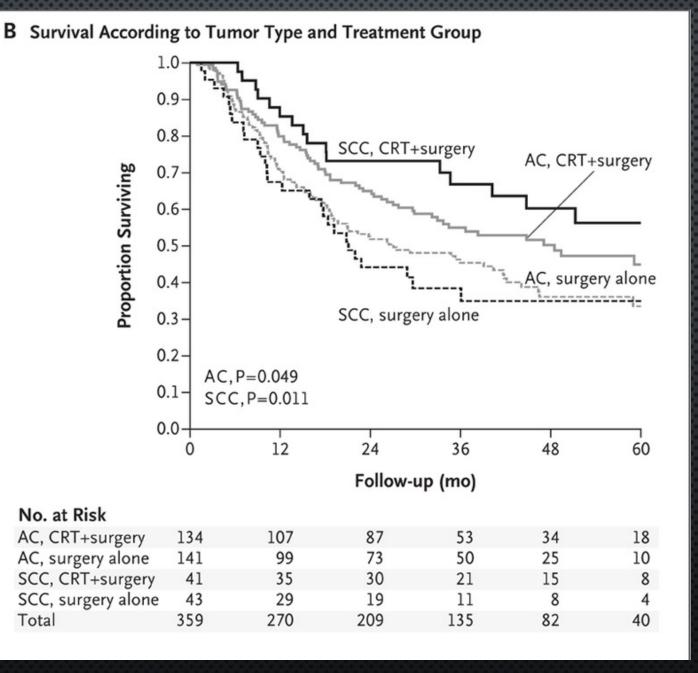
- CAUSED BY REFLUX (RELATED TO OBESITY)
- WATCH THE QUANTITY OF INTAKE
- WATCH THE CONTENT OF INTAKE

Shift to Adenocarcinoma from Squamous Cell Carcinoma

Science







NEJM 2012; 366:2074-2084

Sociology

THE SOCIOLOGY

RICHARD'S LOVED ONES

- No more Thanksgiving dinner...
- NO MORE DINNER FOR TWO....
- NO MORE DINNERS OUT WITH FRIENDS...

RICHARD

- "SEES CERTAIN FOODS AS THE ENEMY"*
- Can't gain weight and doesn't like to be fussed over...

*Due to dumping syndrome

Psychology

THE PSYCHOLOGY

- UPPER GI SYMPTOMS ARE COMMON, UPPER GI CANCERS ARE NOT
- DYSPHAGIA MAKES US POOR HISTORIANS

- DESPITE A RIGOROUS WORK-UP AND AGGRESSIVE THERAPY, THERE IS NO SPECIFIC FOLLOW UP FOR RICHARD...
- "NEVER THE SAME SINCE TREATMENT"

GASTRIC CANCER

• Fred came to see me in 2018...



GASTRIC CANCER STORYLINE



- YEARS OF MILD ABDOMINAL PAIN
- EVENTUALLY LED TO (ALARMING) WEIGHT LOSS
- FOUND ANEMIC IN THE WORK UP
- SEEN BY SURGEON WHO REQUESTED SYSTEMIC THERAPY

OUR PLAN-A...

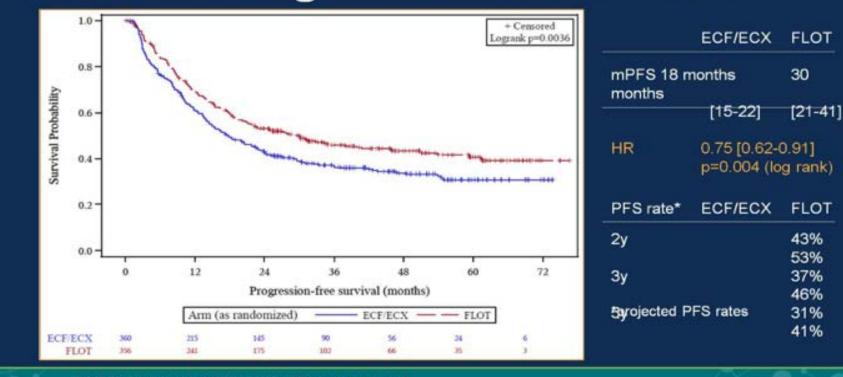
FLOT Regimen

- T docetaxel d1 50 mg/m² iv inf.
- O oxaliplatin d1 85 mg/m² iv inf.
- L leucovorin d1 200 mg/m² iv inf.
- F 5-FU d1 2.600 mg/m² iv <u>24h</u> inf.
 - repeated every 2 weeks

- PROVIDE A PERIOPERATIVE CHEMO SANDWICH
- TOXIC REGIMEN BUT PROVIDES BEST RESULTS WE'VE SEEN IN THE CURATIVE SETTING

Brown ASCO ANNUAL MEETING 17 | BASCO17 Preservative Selen-Elder &-Selen-

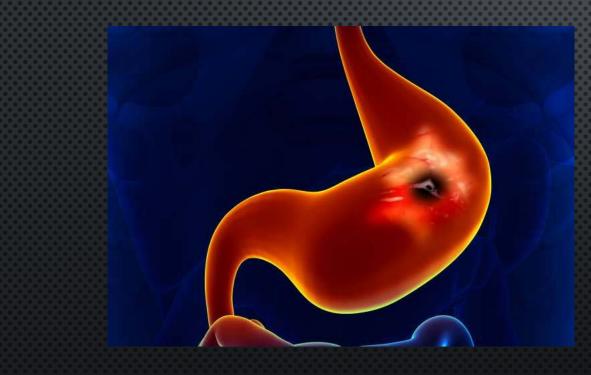
FLOT4: Progression-Free Survival



PRESENTED AT: ASCO ANNUAL MEETING '17 #ASCO17 Sides are the property of the author. Permission required for reuse.

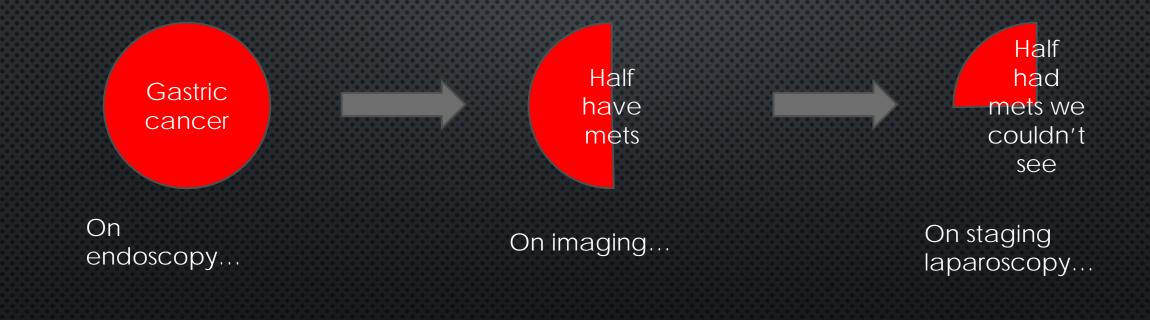
Presented by: Salah-Eddin Al-Batran

HEMOGLOBIN 51!



- ANEMIA BECAME SEVERE
- CONSIDERED RADIATION
- MULTIDISCIPLINARY CONFERENCE SUGGESTS GOING STRAIGHT TO SURGERY

BACK TO SURGEON FOR STAGING LAPAROSCOPY....THEN SURGERY



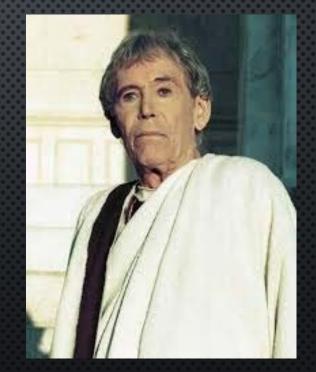
ADVANCED GASTRIC CANCER



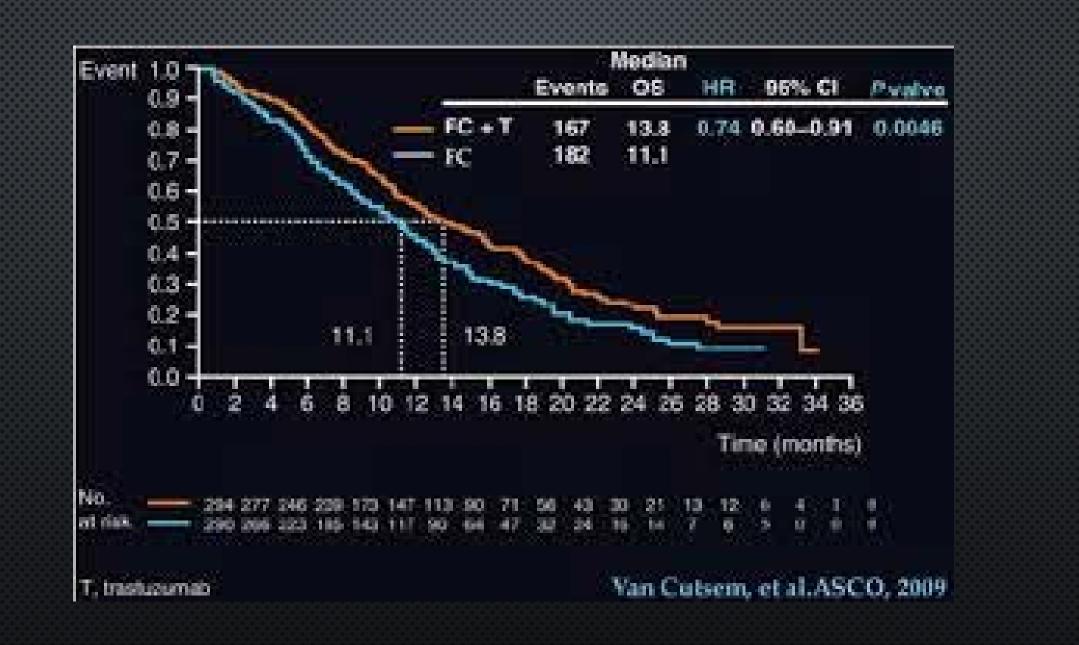
- PROGNOSIS POOR
- LIFE EXPECTANCY < 1 YEAR
- CONSIDERING PALLIATIVE SYSTEMIC THERAPY

THE TOGA TRIAL...

- Some gastric cancers overexpress the HER-2 protein
- CHEMO + TRASTUZUMAB (HERCEPTIN) MAY EXTEND SURVIVAL



Peter O-Toole on twitter



OUR PATIENTS ARE STARS...



Photo from the DailyMail.uk

- ADVANCED DISEASE (ACCEPTS DIAGNOSIS)
- GOAL #1 IS MAINTAIN QUALITY OF LIFE
- GOAL #2 IS TO PROLONG SURVIVAL

FOLLOW UP

BY THE BOOK...

- NO TESTS REQUIRED
- WORK UP SYMPTOMS OR SIGNS OF RECURRENCE

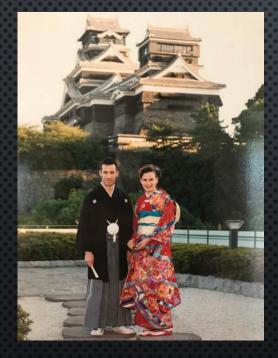
N MY CLINIC ...

- WHAT IS IMPORTANT TO YOU?
- How do you want to proceed?
- Set reasonable limits



Science

TO JAPAN...



- HIGH RATES DUE TO HIGH SALT INTAKE, HIGH RATES OF SMOKING AND HELICOBACTER PYLORI INFECTION
- Screening works in Japan
- ERADICATION OF H.PYLORI IS A NATIONAL GOAL

Science

SCREEN HOUSEHOLD FOR HELICOBACTER PYLORI





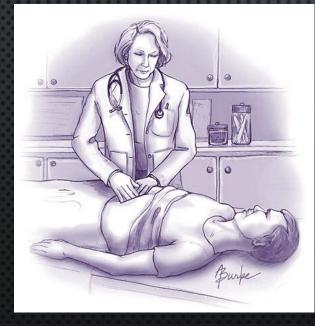
Sociology

THE SOCIOLOGY OF STARVING



- Family struggles with his weight loss, anorexia
- DISCUSSED CONCEPT OF "STARVING TO DEATH"

GISYMPTOMS



 DIFFICULT TO REASSURE FAMILY MEMBERS WHO WILL HAVE ABDOMINAL PAIN IN FUTURE

Psychology

CONTINUING DOWN THE PIPE...

BOWEL CANCER

Small Bowel

- 6 METRES
- RARE TO FIND CANCER
- NO EVIDENCE
- POOR PROGNOSIS
- TREATMENTS DON'T WORK

LARGE BOWEL

- 1 METRE
- COMMON TO FIND CANCER
- ABUNDANT EVIDENCE
- GOOD PROGNOSIS
- TREATMENTS "WORK"

SMALL BOWEL CANCER

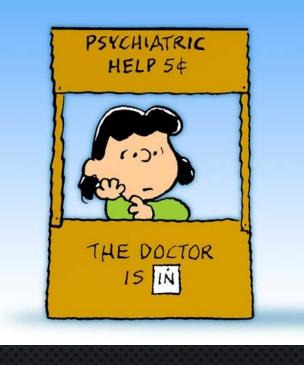
Charlie Came to see me as a second opinion in 2012...





CHARLIE'S QUESTIONS

- WHY DID I GET THIS DISEASE?
- WHY DID MY ONCOLOGIST TELL ME "THERE WAS NOTHING TO DO?"
- WHAT ARE MY "CHANCES"?



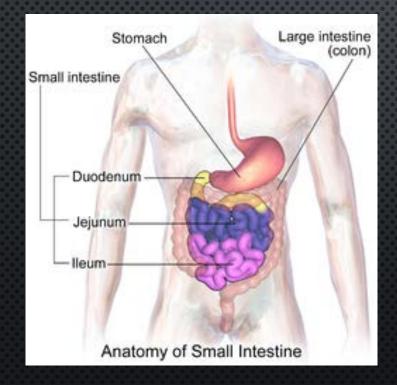
LET'S TALK ABOUT CHARLIE...



Charles M. Shulz (photo from Wikipedia)

- 60-70 years old, healthy, male
- SMOKED/DRANK (A BIT)
- NO EVIDENCE OF HEREDITARY DISEASE

CANCER IN THE SMALL BOWEL?



- 800 Canadians diagnosed with small bowel cancer annually, but over 25 000 diagnosed with colon cancer
- Small series tell us that adjuvant chemotherapy is not effective
- DIFFICULT TO MAKE CONCLUSIONS WITH SUCH LIMITED DATA
- CAN WE REALLY EXTRAPOLATE FROM COLON LITERATURE?

WOULD YOU PURSUE ADJUVANT CHEMOTHERAPY IN THIS SETTING?

- YES
- NO

COMPLETED FOLFOX...

• Used Colon cancer guidelines to describe Follow up / surveillance...

SMALL BOWEL CANCER



• CHARLIE CAME BACK TO SEE ME IN 2015...

METASTATIC/RECURRENT DISEASE OF THE SMALL BOWEL

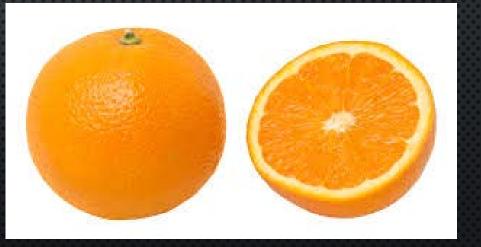


METASTATIC/RECURRENT DISEASE OF THE SMALL BOWEL

LARGE BOWEL (COLON)

Small Bowel





METASTATIC SMALL BOWEL CANCER



WOULD YOU PURSUE PALLIATIVE SYSTEMIC THERAPY?

- YES, FOR ME
- YES, FOR OTHERS
- NO



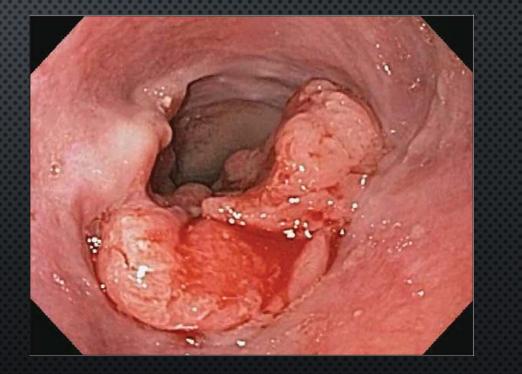
ALARM SYMPTOMS.

FOLLOW UP.

- DIFFICULT TO DETECT (DYSPHAGIA)
- OFTEN AREN'T ALARMING SYMPTOMS UNTIL TOO LATE (WEIGHT LOSS)
- ENDOSCOPY CAN BE HELPFUL
- NOTHING ELSE "WORKS" (AS PER LITERATURE)
- BUT USE CT, BLOOD TESTS IF THERE ARE SYMPTOMS OR SIGNS

RECAP: ESOPHAGEAL CANCER

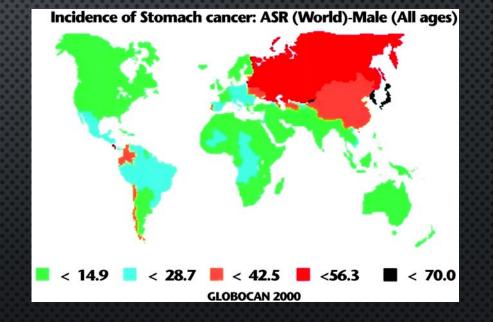
- There are two flavours of esophageal cancer
- Shifting from squamous cell carcinoma to adenocarcinoma



From aafp.org

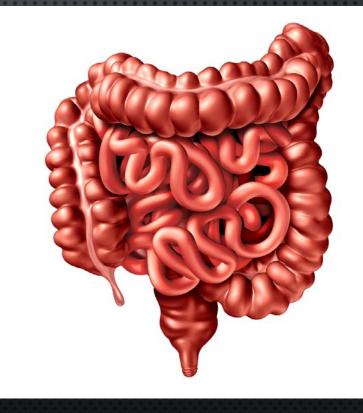
RECAP: GASTRIC AND ESOPHAGEAL CANCER

- HUGE ISSUE WORLDWIDE; KNOW WHERE YOUR PATIENTS ARE FROM
- TREATMENT FOR CURE CAN BE VERY CHALLENGING
- PALLIATIVE TREATMENTS OFTEN PROVIDE SUBOPTIMAL RESULTS



RECAP: SMALL BOWEL CANCER

- Small bowel cancer is rare
- TREATMENT APPROACHES BORROW FROM THE COLON LITERATURE
- TREATMENT RESULTS ARE FAR FROM WHAT WE SEE WITH COLON CANCER



RECAP: THE COMPLEXITY OF UPPER GI MALIGNANCIES

- FOOD: EAT REAL FOOD!
- FEEDING: EATING IS WHAT WE DO
- FEAR: DEEP ANXIETY BEHIND GI SYMPTOMS CAN'T BE ALLEVIATED BY TESTS



THANK YOU!

... be the person your dog thinks you are...

