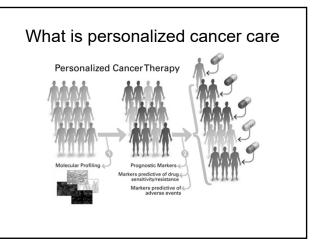


## Objectives

- What is personalized medicine and how does it relate to cancer?
- What role does the surgeon play in personalized cancer care?
- What personalized strategies do we utilize for our cancer patients?



Go through some genomic studies

# • This view of personalized cancer care is pretty narrow.

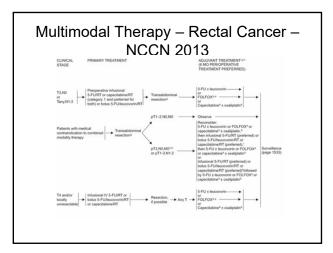
- -Feasibility
- -Cost
- What can we do to personalize the care of the patient in our office?

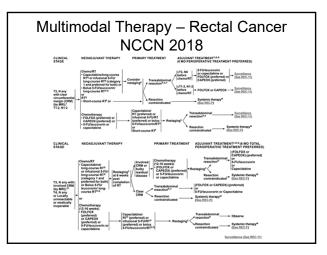
# Personalized Surgical Care

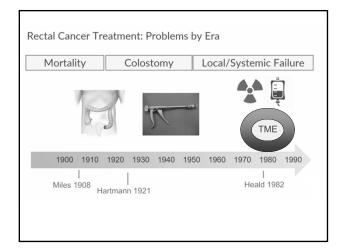
- Multimodal therapy and the importance of tumor board
- Preoperative optimization and tailored Enhanced Recovery After Surgery (ERAS) protocols
- · Operative choices
- · Postoperative care

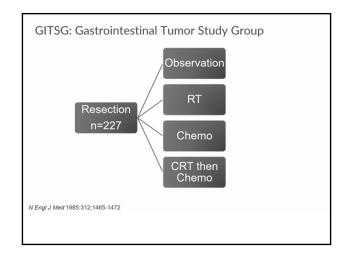
# Personalized Surgical Care

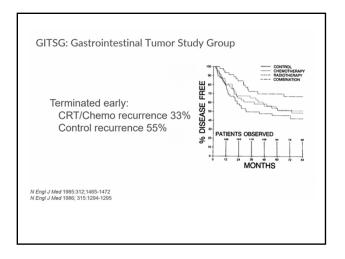
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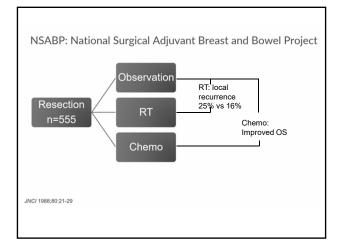


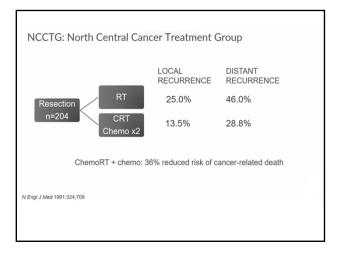


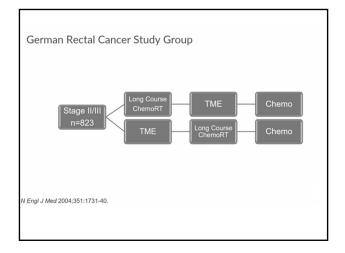


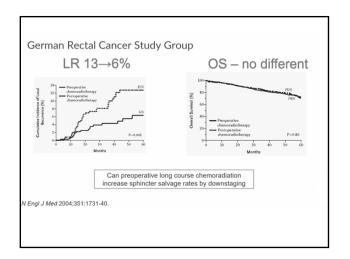


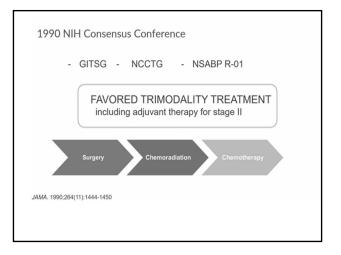


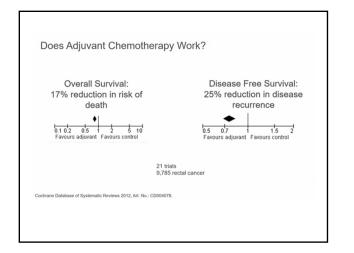


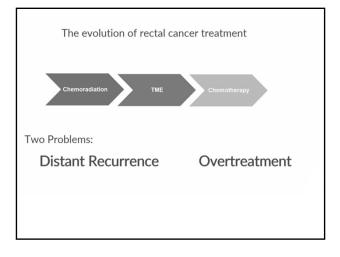


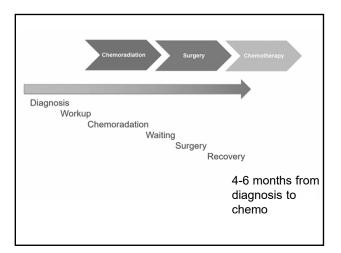


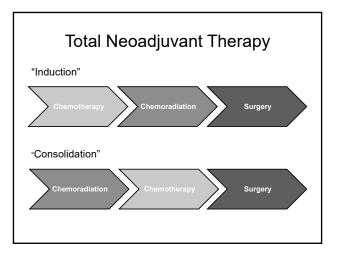


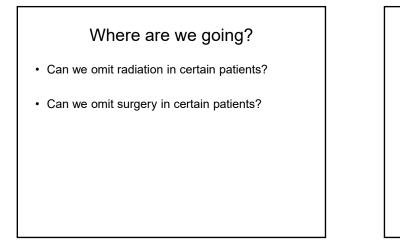


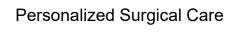








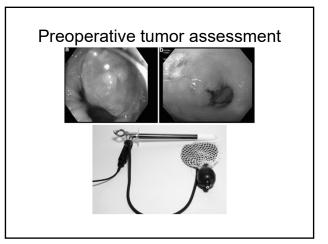




- Multimodal therapy and the importance of tumor board
- Preoperative optimization and tailored Enhanced Recovery After Surgery (ERAS) protocols
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## **Preoperative Measures**

- Preoperative tumor assessment
- Nutrition
- · Frailty, exercise tolerance
- Counseling expectations, site marking
- · Patient factors

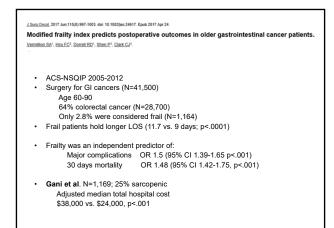


#### Malnutrition

Implications of preoperative hypoalbuminemia in colorectal surgery

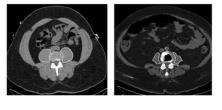
Adam Truong, Mark H Hanna, Zhobin Moghadamyeghaneh, Michael J Stamos

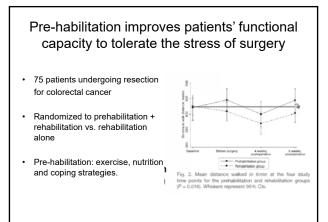
- Prevalence in GI surgery patients 30-50%
- Albumin < 3.5 is the strongest preoperative predictor of both 30 day morbidity and mortality
- Albumin level independently predicts complication rates such as sepsis, ARF, bleeding, SSI, failure to wean from ventilation amongst 61 other complications.



### Sarcopenia (muscle wasting) is a surrogate for frailty

- Inflammation, age, malnutrition, chronic disease.
- Psoas muscle size at L3 is a representative

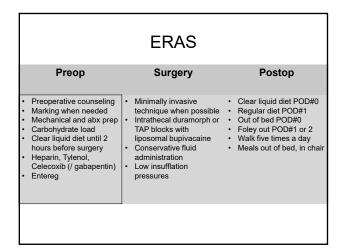


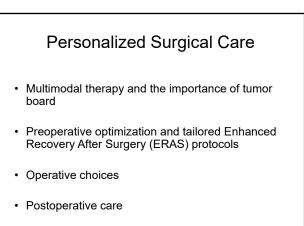


# Enhanced Recovery After Surgery (ERAS)

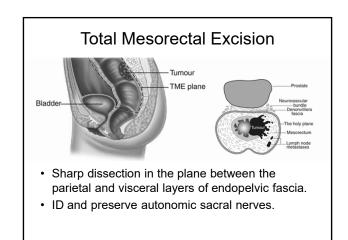
- Perioperative procedures and practices applied to patients undergoing elective surgery.
- Aim is to attenuate stress response to surgery to enable rapid recovery.
- Improves outcomes: decreased length of stay, decreased narcotic use, improved patient satisfaction.

# Fast track surgery versus conventional recovery strategies for colorectal surgery (Review) Spanjersberg WR, Reurings J, Keus F, van Laarhoven CJHW • A RCTs with at least 7 ERP measures each • RR for all complications 0.5 • LOS -2.94 d • Readmissions equal • Major complications equal



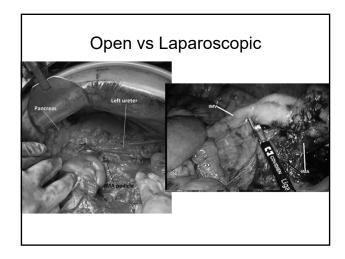


# Operative Measures Choice of operation and approach Lymph nodes, TME, CRM, and emergence of CME Intraoperative care



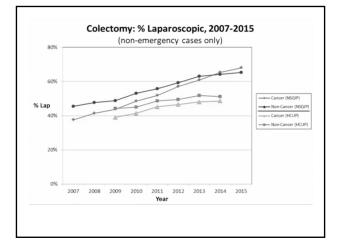
# Making sense of the options

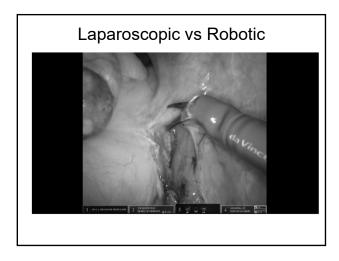
- Open
- Laparoscopic
- Robotic
- TAMIS
- TaTME

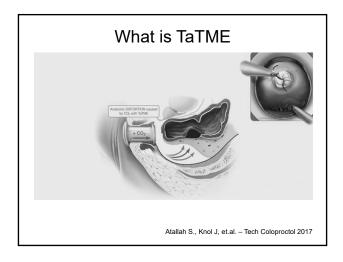


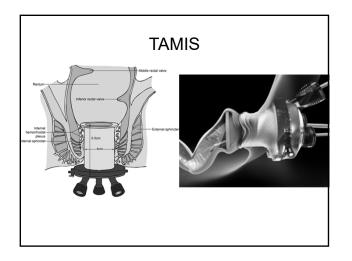
# Open vs Laparoscopic

- COLOR II
- ALaCaRT
- ACOSOG Z 6051









# Postop

- Genetic counseling for appropriate patients
- Tailored therapies
- OncotypeDX

# Conclusion

- Cancer care is growing more complex.
- Personalized care means we are considering more factors than we ever have before.
- By implementing multidisciplinary tumor boards, doing and tailoring preop, intraop, and post op care to each patient's needs, we can improve outcomes while reducing side effects.

# Thank you for your attention!

