

FOR GERIATRIC ONCOLOGY REJEARCH









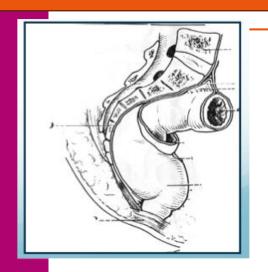


Individualization of surgical approaches in the older population with rectal cancer, what can be learned from research?

Frédérique PESCHAUD

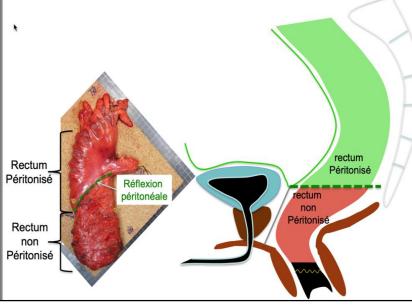
APHP Ambroise Paré Boulogne

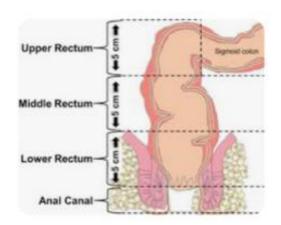
Anatomy of Rectum

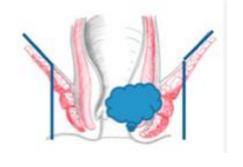


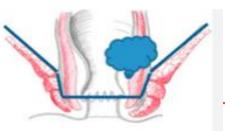








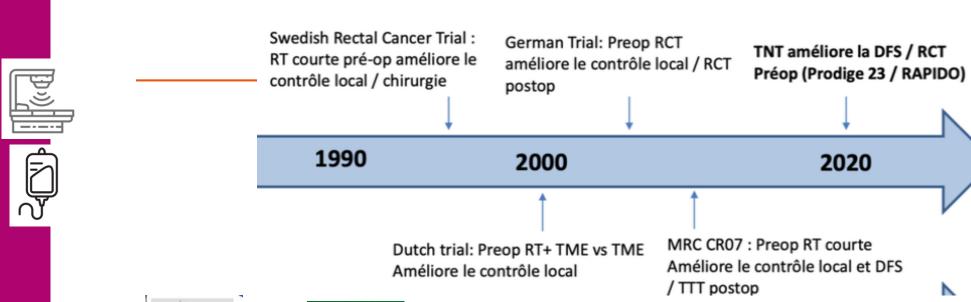




abdominoperineal resection

intersphincterienne resection







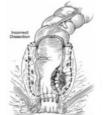
2020



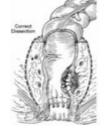


A Habr Gama









Anterior resection 1970

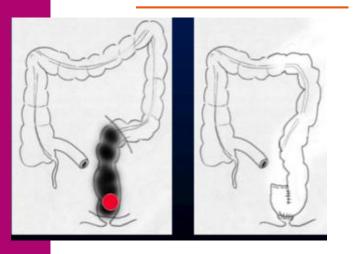
Laparotomy TME 1986 Total Mesorectum Excision **Laparoscopy TME 2000**

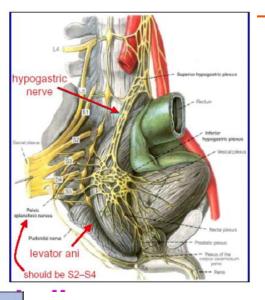
« Watch and Wait » 2006

Rectal preservation



Morbi-mortality of surgery





	(Adapté de réf. ⁴).						
Morbidité postopératoire	< 65	65-74	75-84	> 85	P		
Complications pulmonaires	5%	10%	12%	15%	< 0,0001		
Complications cardio- vasculiaires	0,8%	2%	4%	4%	< 0,0001		
Accident vasculaire cérébral	0,2%	0,6%	1%	1%	< 0,001		
Accidents thrombo- emboliques	1%	2%	2%	2%	=0,0004		
Fistules anastomotiques	4%	5%	4%	3%	= 0.2607		

Surgery for colorectal cancer in elderly patients: Lancet 2000;356:968-74.

	%
Mortalité	0 - 2%
Morbidité	30 - 40%
Fistule / sepsis pelvien	15 - 20%
Stomie définitive	9 - 27%
LARS Sévère (>29)	55 - 60%
Troubles génito-urinaires	40 - 50%

1/3 keep a definitive stomy

Increasing age was only associated with non-surgical complications) not with surgical complications.

Geriatric assessment



The Comprehensive Geriatric Assessment (CGA)

identifies frail patients
assist in clinical decision-making
Correlated with post-therapy morbidity and mortality



The Geriatric score G8

The best screening tools (ss 89%, sp23% in CCR) <14

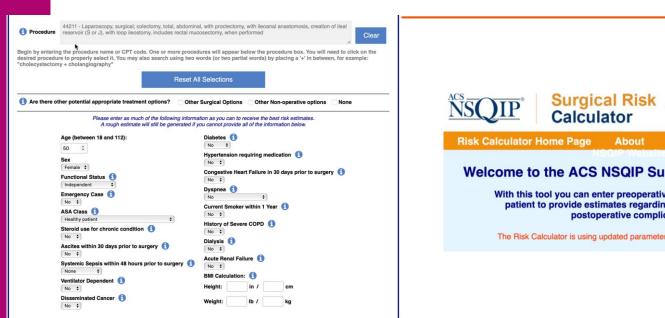


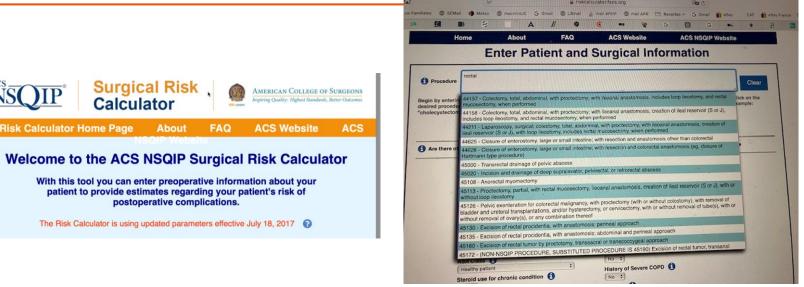
Prospective GOSAFE study, 1000pts (Geriatric Oncology Surgical Assessment and Functional recovery

Crucial role of frailty assessment to predict postoperative complications and correlate with postoperative quality of life and functional recovery



"Surgery Risk Assessment"



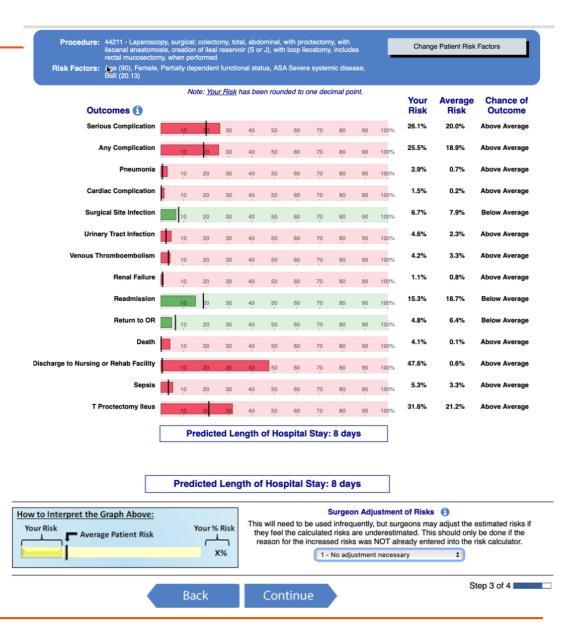


Surgical Risk Calculator

The American College of Surgeons National Surgical Quality Improvement Program
A risk calculator that estimates the chance of an unfavorable outcome (such as a complication or death)
within 30 days after surgery

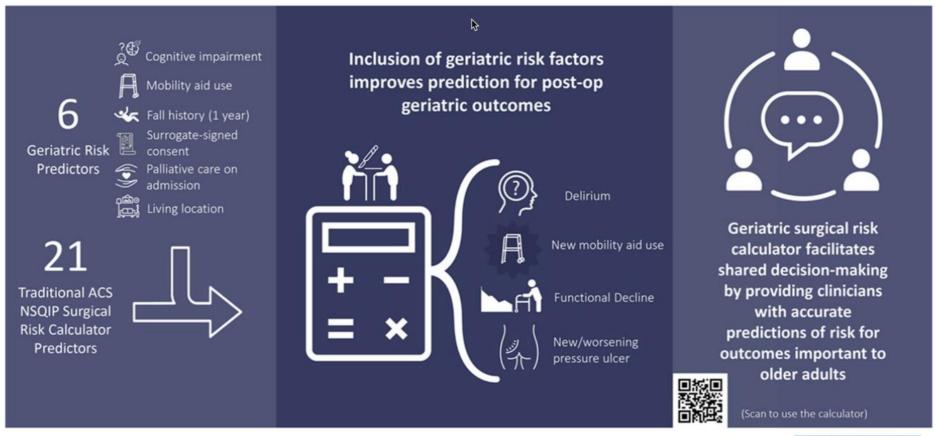


- The risk calculator is to provide accurate, patient-specific risk information to guide
 - both surgical decision-making and informed consent
 - predict the likelihood of patients having one of 19 different outcomes within 30 days of surgery





Enhancing the ACS NSQIP Surgical Risk Calculator to Predict Geriatric Outcomes



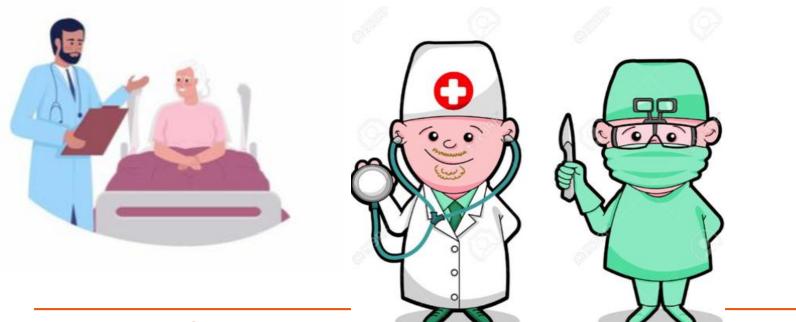






How to Improve care for elderly patients

Prehabilitation to reduce postoperative complication?
Geriatric co-management: will be the wining solution for patient?







Prehabilitation in older patients and high-risk patients undergoing colorectal cancer surgery

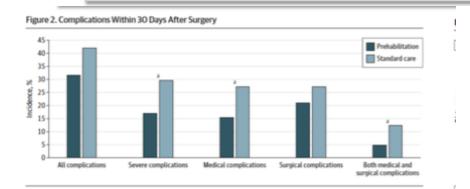
Préhabilitation : Cancer Colorectal



Original Investigation. JAMA Surg. 2023 Jun 1;158(6):572-581. doi: 10.1001/jamasurg.2023.0198.

Effect of Multimodal Prehabilitation on Reducing Postoperative Complications and Enhancing Functional Capacity Following Colorectal Cancer Surgery: The PREHAB Randomized Clinical Trial

Charlotte Johanna Laura Molenaar, Enrico Maria Minnella, Miquel Coca-Martinez, David Wouter Gerard Ten Cate, Marta Regis, Rashami Awasthi, Graciela Martínez-Palli, Manuel López-Baamonde, Raquel Sebio-Garcia, Carlo Vittorio Feo, Stefanus Johannes van Rooijen, Jennifer Marijke Janneke Schreinemakers, Rasmus Dahlin Bojesen, Ismail Gögenur, Edwin R van den Heuvel, Francesco Carli, Gerrit Dirk Slooter; PREHAB Study Group



4-week <u>in-hospital</u> supervised multimodal prehabilitation program:

- high-intensity exercise program 3 times per week,
- nutritional intervention,
- psychological support,
- and a smoking cessation program when needed.





Prehabilitation in older patients and high-risk patients undergoing colorectal cancer surgery



Physical intervention: supervised 28 min with oncologic physical therapist and at-home low-intensity



Personalized
nutritional 30 g prot
1h the supervised
HIT, multivitamin
supplement, vit D all
follow by a daily
logbook



3 weeks



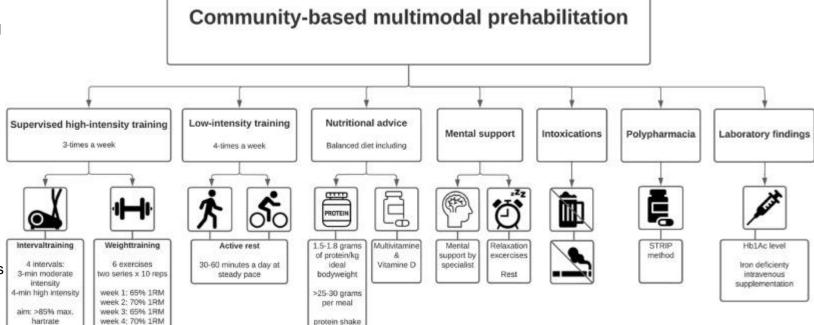
Lower postoperative complication rate (p=0,015)



lower readmission rate (p=0,012);



better functional capacities in all tests (p<0,0 01)



Prehabilitation reduced postoperative complications improved short-term functional outcomes



Geriatric co-management: A winning collaboration in Oncology!

Robust group G8 score ≥ 15



Table 4 Oncologic characteristics and treatment

	Robi	ıst	Fra	il	p
	Group $N=151$		Gro	up	value
			N = 51		
	N	%	N	%	
Localisation					
Rectum	52	34.4	16	31.4	0.55
Colon	99	65.6	35	68.6	
Neo-adjuvant treatment					
Preoperative chemo-radiotherapy	24	15.9	12	23.5	0.28
Preoperative chemotherapy	12	8	4	7.8	0.78
Surgical technique					
Robotic	43	28.5	9	18	0,11
Laparoscopy	108	71.5	42	82	
Stade (post-operative)					
Stade I-II	97	64.2	36	70.6	0.44
Stade III-IV	54	35.8	15	29.4	
Including metastasis	14	9.2	3	5.9	0.79
Adjuvant treatment					
Postoperative chemotherapy indication	45	29.8	15	29.4	0.98
Postoperative chemotherapy	40	88.8	9	60	0.02

Frail Group
G8 ≤ 14 with CGA
Older
more comorbidities
Malnutrition 55%
Sarcopenia 47%

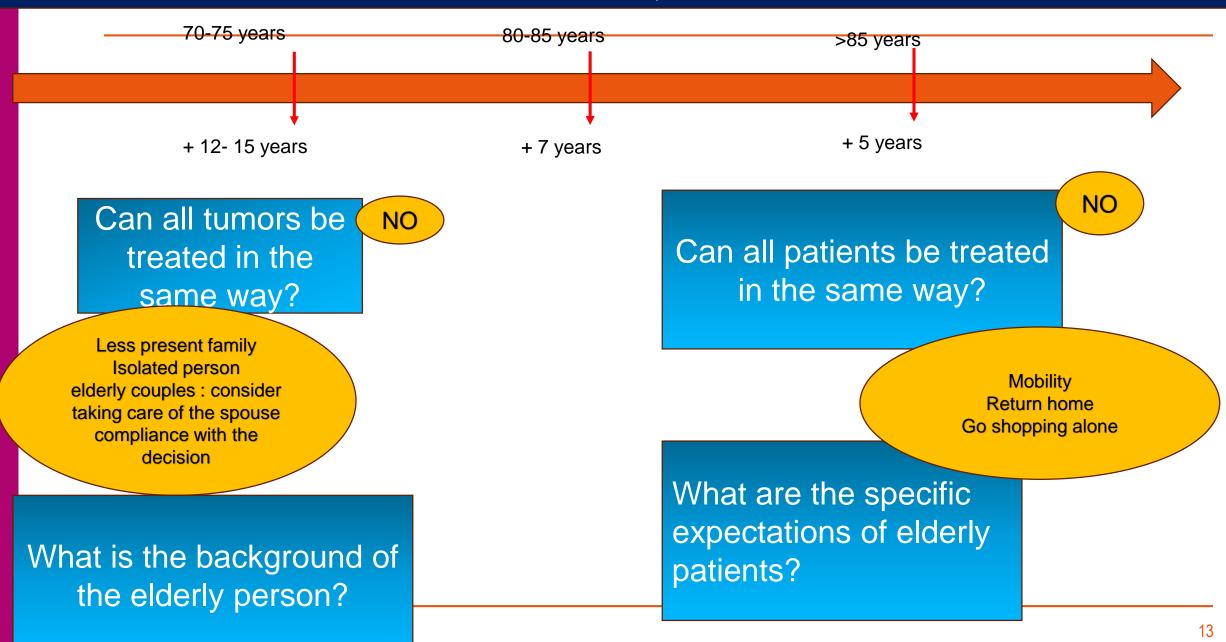


One year after surgery: mortality and recurrence rates were similar

Geriatric comanagement is feasible and contributes to the reduction of postoperative morbimortality. Benefit of geriatric comanagement, involving G8 screening, CGA, and ERAS, for frail older patients undergoing surgery for CRC.



What are the Questions?



How to reduce morbidity without oncological risks?

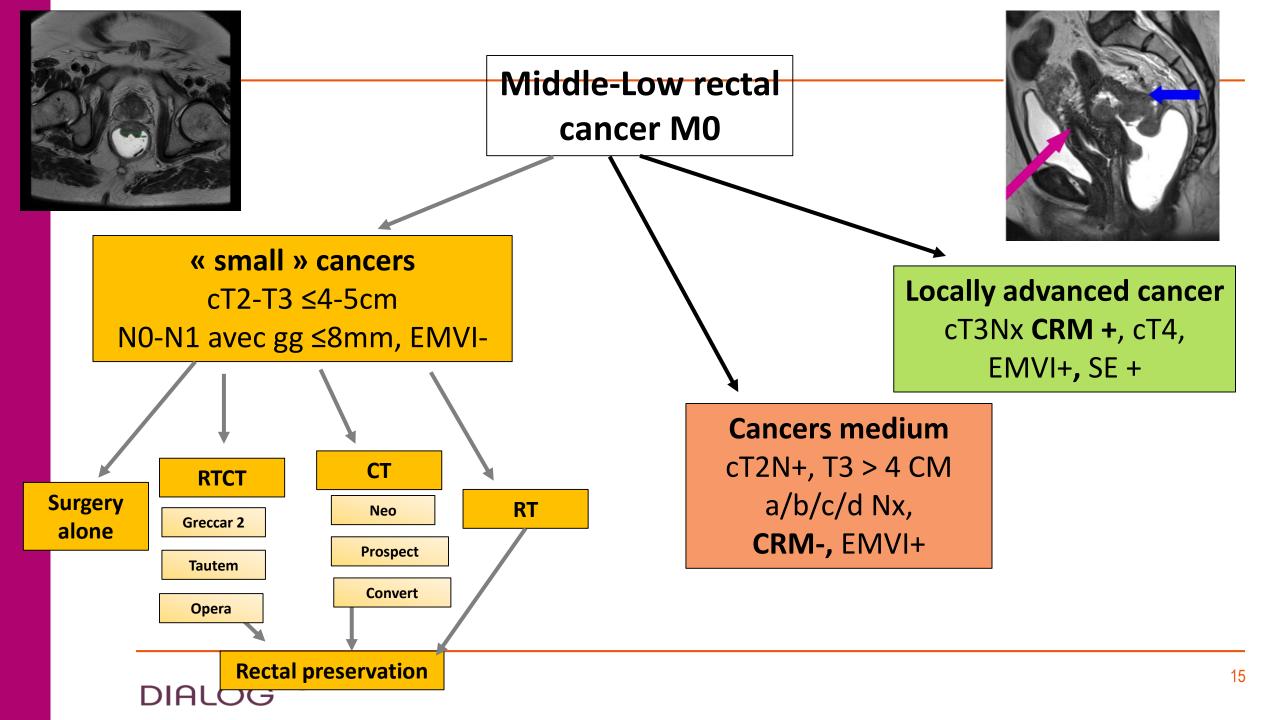
First concept to de-escalation strategies.

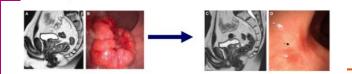
Avoid surgery if very good respons to neoadjuvant therapy?

Avoid radiotherapy?









« small tumors »

cT2-T3 ≤4-5cm N0-N1 avec gg ≤8mm, EMVI-

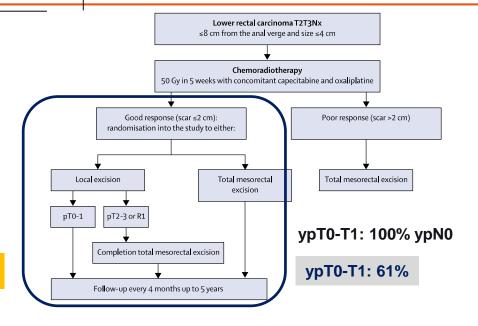
Rectal preservation

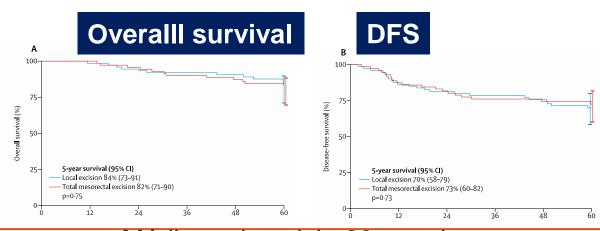
GRECCAR 2: CAP50

CAP50 and tumorectomy if good responders

Good responders 75%

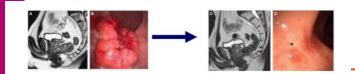
Organe Preservation 46%











no elderly patients included

« small tumors »
cT2-T3 ≤4-5cm
N0-N1 avec gg ≤8mm, EMVI-

Rectal preservation

GRECCAR 2: CAP50 TAU- TEM T2-T3abN0M0
Randomised phase III

Surgery with TME

CAP50 and *Transanal Endoscopic Microsurgery*

Phase III multicentric

Complete response: 44% after RTTEM

Compliance 98%

lower morbidity with organ preservation.

Local recurrence rates are expected soon to confirm the validity of this approach





« small tumors » cT2-T3 ≤4-5cm N0-N1 avec gg ≤8mm, EMVI-

Rectal preservation

RTE 45 Gy + 9 Gy RTE boost Xeloda

RTE 45 Gy + 3x30 Gy contacthérapie Xeloda

OPERA: CAP50

+ contacthérapie

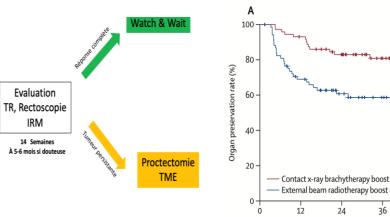
RLR à 5 ans et SG idem

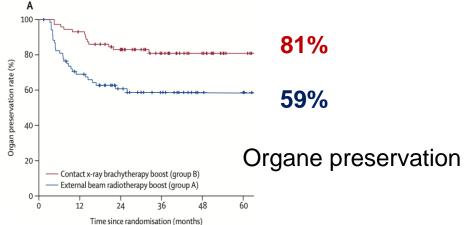
Contactherapie

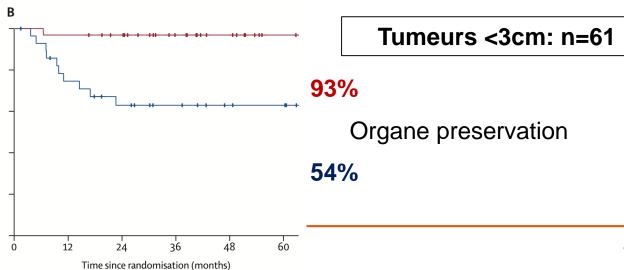
Nice, Lyon, Mâcon, IGR

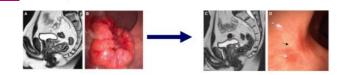


OPERA: contacthérapie 90Gy + CAP 50









Age: range 31-83 years

« small tumors »
cT2-T3 ≤4-5cm
N0-N1 avec gg ≤8mm, EMVI-

rectal preservation planned

NEO cT1-T3a,bN0

Phase II
58 pts Chemotherapy without RT
6 Folfox ou 4 Capox

Good respondeurs IRM 96%

Local exerese pT0-1: 57% (54% in Greccar 2 with RTCT)

Caution: Short Follow up



SSR 2 ans for organ preservation 90%

TRESOR: T2T3N0/1 <6cm



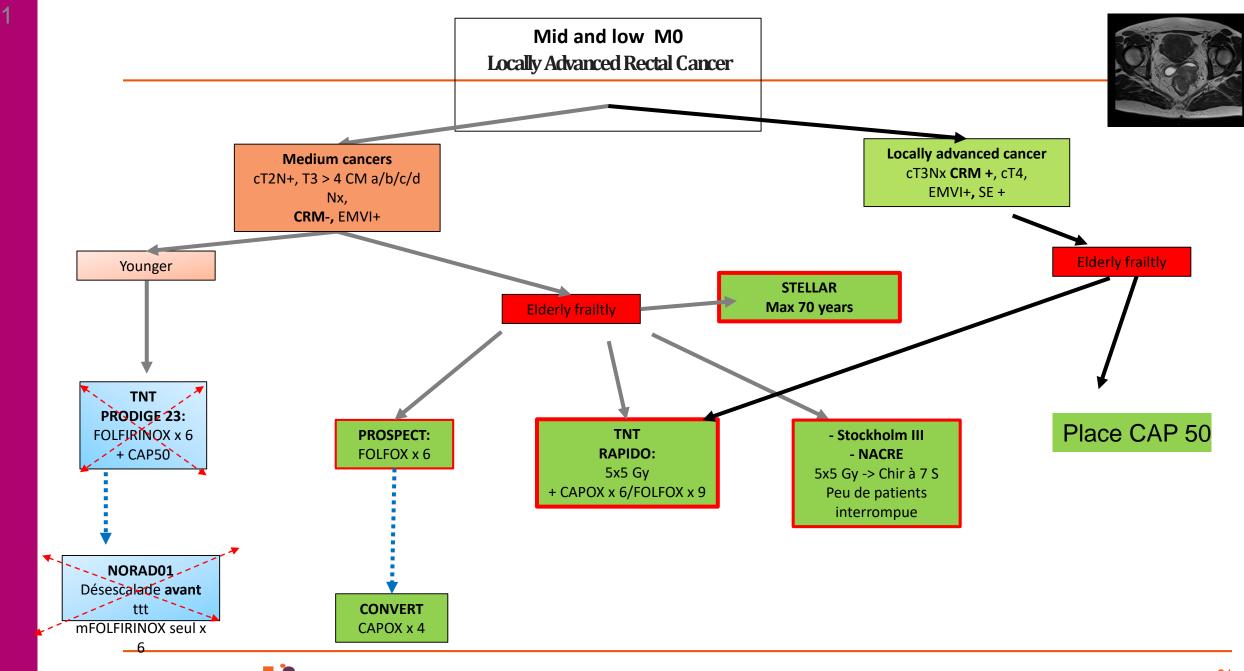
Assess potential benefit of <u>intensification</u> of neoadjuvant CT with Folfirinox and contact therapy for organ preservation.



GRECCAR 12: T2T3N1 < 4cm

Evaluer benefice potentiel <u>intensification</u> par CT neoadjuvante la possibilité de conservation d'organes





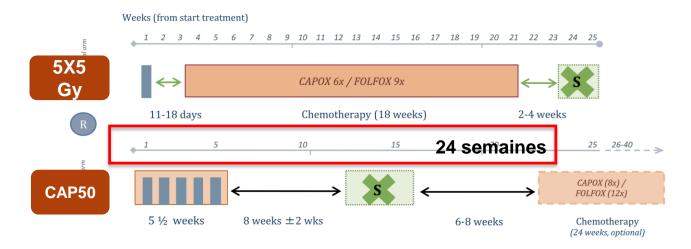
DIALO



Medium cancers cT2N+, T3 > 4 CM a/b/c/d Nx, CRM-, EMVI+

TNT RAPIDO: 5x Gy + CAPOX/FOLFOX

Locally advanced cancer cT3Nx CRM +, cT4, EMVI+, SE +



Phase III supériorité
ADK rectum, ≤ 15 cm de la MA
cT4a/b
cN2
CRM ≤ 1 mm
Ganglions latéro-pelviens cN+
OMS 0 ou 1

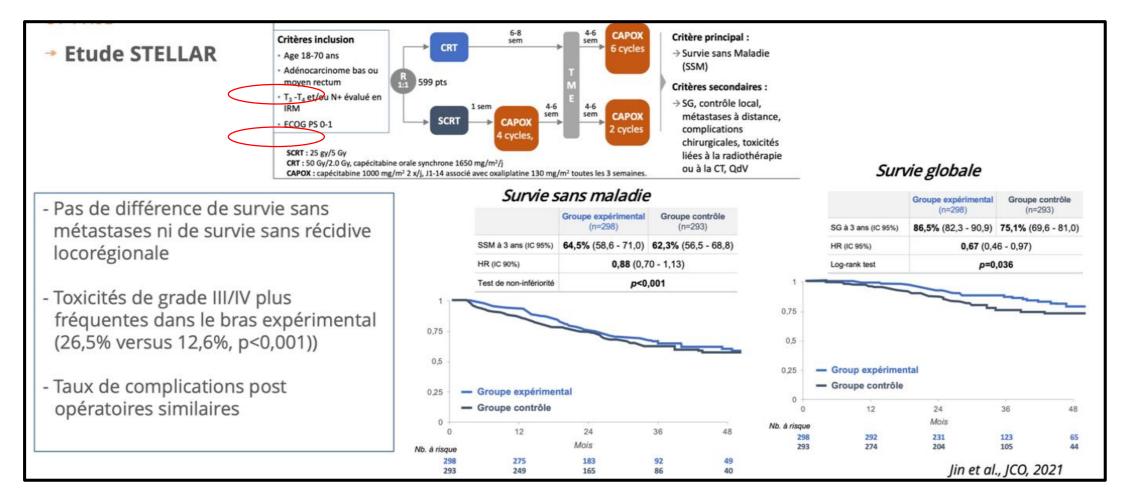
	RCT	RT + CT	р
Récidive locorégionale	6%	10%	0,027

Age: range 31- 84 years 40%> 65 years

Follow up 5 years



STELLAR: short RT + CT followed by surgery



Short-term radiotherapy with preoperative chemotherapy followed by surgery was efficacious with acceptable toxicity and could be used as an alternative to CRT for locally advanced rectal cancer.

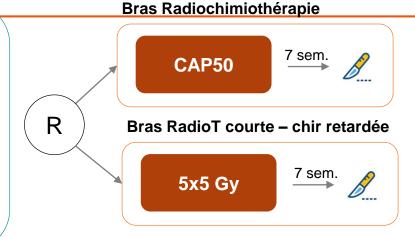


NACRE: RT courte + chir retardée chez patients >75 ans

Phase III non-infériorité > 75 ans OMS 0-2 cT3-T4NxM0 cT2 bas rectum

(2016-2019: n = 101)

Major lack of inclusion 100 included instead of 400



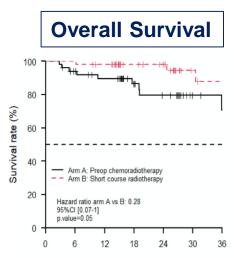
De-escalation
To avoid chemotherapy

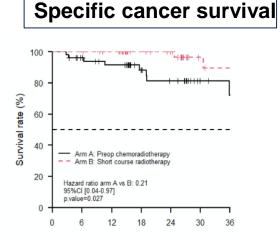
The R0 resection rate and the preservation of autonomy were the two co-primaries

Better tolerance for short course
Better compliance
Better overall survival and specific cancer
survival
Identical R0
Faster return to independence
100% of patients complete the 5x5 vs. 86%

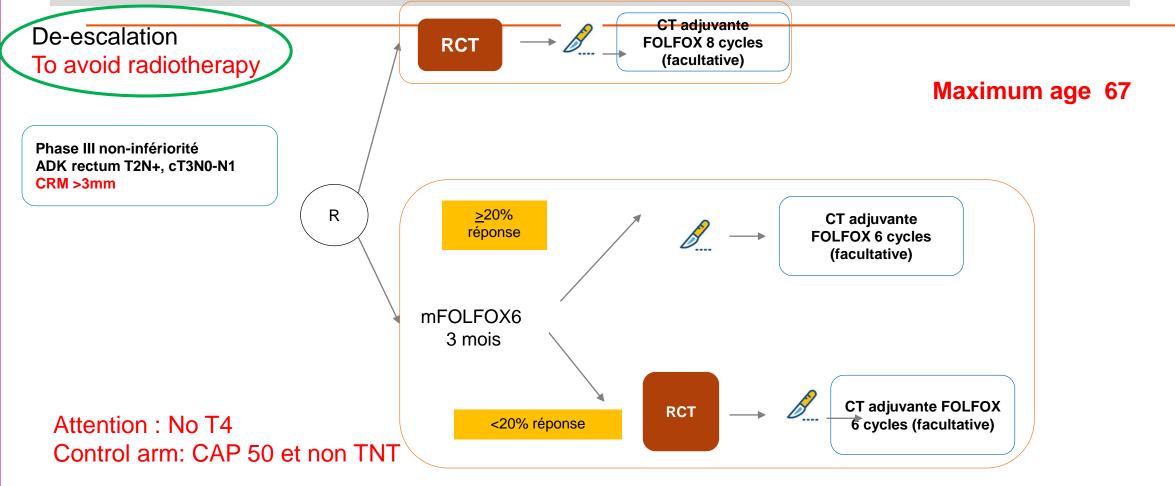
FEW PATIENTS

Short-course RT is a perfectly valid option in elderly patients since it does not compromise surgical resection or local control of the disease,



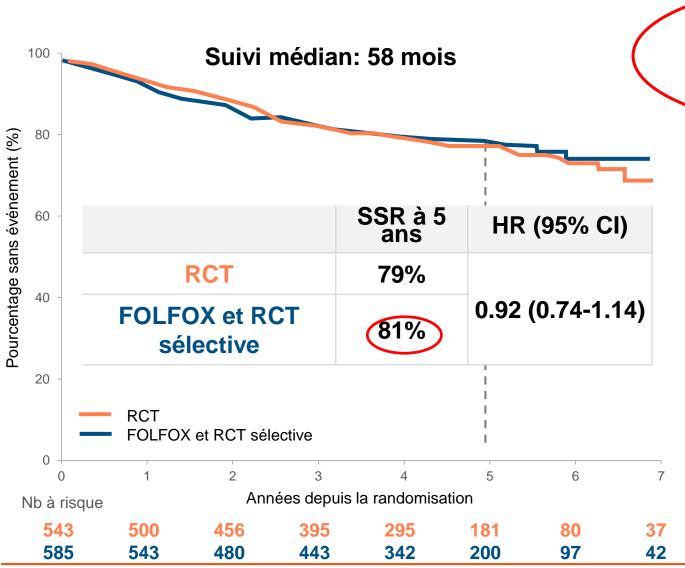


PROSPECT: CT néoadjuvante avec RCT sélective



The North American study aimed to reduce sequelae by evaluating the possibility of not using radiotherapy for rectal tumors with a good prognosis

PROSPECT: CT néoadjuvante avec RCT sélective

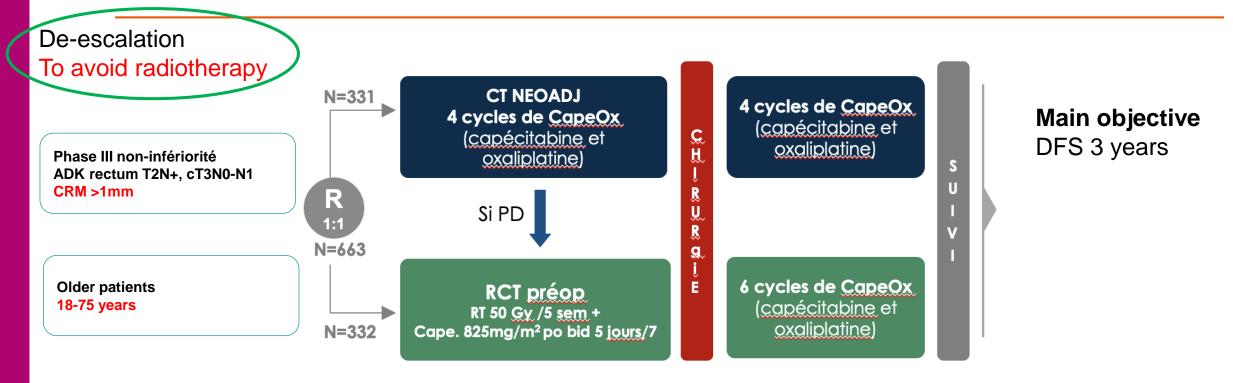


DFS
FOLFOX preop without RT
is not lower than CAP50

	RCT	FOLFOX +/- RCT
ypT0N0	24%	22%
Résection R1	2,7%	1,1%



CONVERT: CT periop without RT



Low loco-regional resurrence free survival: 2,6% and 3,7% respectively

DFS similar

Rate complete resection RO was 99% in two groups

Progression-free survival at 3 years and overall survival at 3 years were similar.

Long-term follow-up is needed to confirm these results.

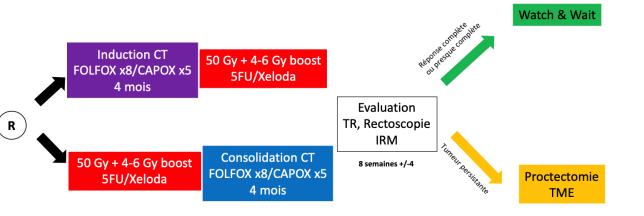


OPRA: Phase II



Verheij JCO: 2024

De-escalation
To avoid surgery



	Induction	Consolidation	р
Survie sans récidive à 3 ans	76%	76%	
Récidive locale 5 ans	69%	6%	
Survie sans chirurgie rectale à 3 ans	41%	53%	p=0,01
Survie sans métastases à 3 a ans	84%	82%	
TME après bilan évaluation réponse	28%	24%	
Repousse tumorale dans W&W	40%	27%	p=0,02
Conservation rectale actualisée	44%	29%	p=0,02

Rectal preservation for one-third of patients with large tumors in complete response after TNT,

- → local recurrence in 30% of cases where the organ is preserved
- → More metastases if local recurrence

Although there are no elderly patients, this strategy should be maintained in cases of large tumors if organ preservation is desired even if the main problem is a high recurrence rate.











IMPROVED

Implementation of coMplex PeRi-OperatiVe intervEntion in olDer patients with cancer: a multicenter randomized controlled trial

<u>Investigateur coordonnateur</u>: Pr Elena PAILLAUD LAURENT PUIG <u>Co investigateur coordonnateur</u>: Pr Frédérique PESCHAUD

Promoteur: AP-HP – DRCI,

<u>Unité de Recherche Clinique</u> : Pr Florence Canoui-Poitrine

urc)(mondor









IMPROVED Implementation of coMplex PeRi-OperatiVe

intervEntion in olDer patients with cancer: a multicenter randomized controlled trial

- The study was of an open-label, national multicenter, randomized, and parallelgroup design
- 25 centers
- Number of patients: 630
- inclusion criteria:
 - □ Over 75 ans
 - □ Stomac cancer, pancreas, colorectal with surgery: Gastrectomy, Duodenopancreatectomy, left Pancréatectomy, colectomy, rectal surgery, hepatectomy > 3 segments
 - □ Social security
 - □ signed consent





IMPROVED

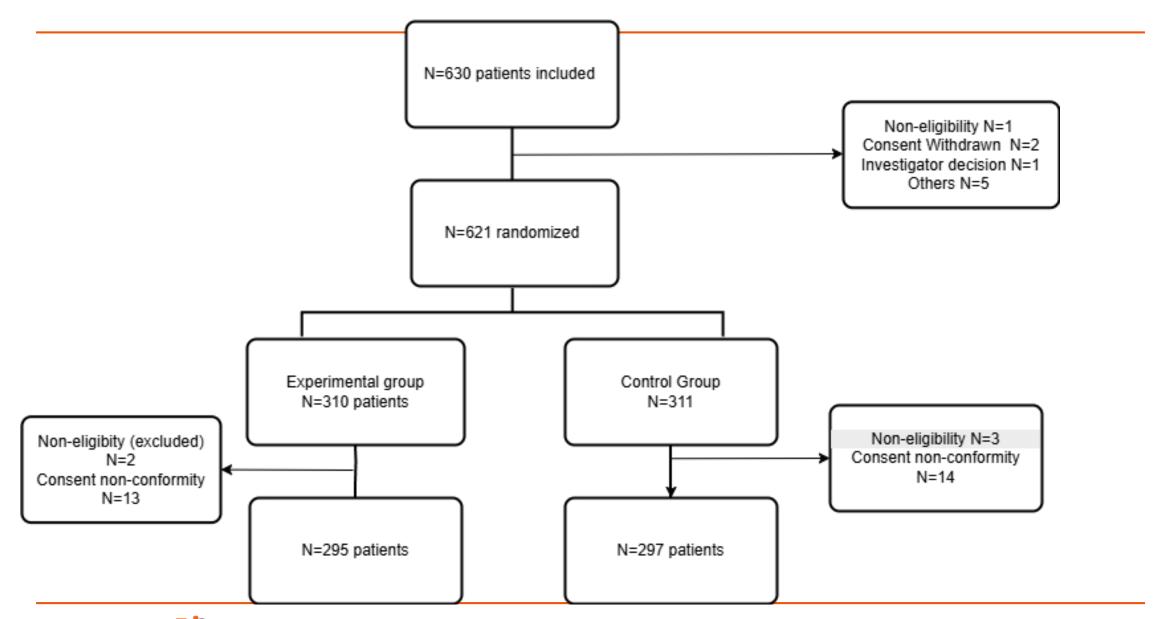
Main objective

□ Evaluate the benefit of personalized, intensive geriatric care during the perioperative period versus standard care on major morbidity at 30 days in patients over 75 years of age with digestive cancer requiring surgery and at risk of postoperative complications

Secondary objective

□ Overall survival, different types of severity of postoperative complications, home care, length of stay in the surgical ward, total length of hospital stay, care pathway (transfers to intensive care or rehabilitation, delays and length of hospital stay)







Baseline characteristics of	, and , and the time time							
			Total	GROUP				
					CONTROL	E	xPerimental	
			N=592	N=297		N=295		
aseline characteristics		N	n(%) or med(Q1-Q3)	N	n(%) or med(Q1-Q3)	N	n(%) or med(Q1-Q3	
Age, year, median (Q1-Q3)		592	81 (78-86)	297	81 (77-86)	295	81 (78-85)	
Female, n(%)		268	45,0%	130	44,0%	138	47,0%	
Live alone		216	40,4%	103	38,9%	113	42,0%	
No Care Giver		114	21,6%	50	19,0%	64	24,2%	
Tumor location	Colon	347	58,7%	172	57,9%	175	59,5%	
	Rectum	79	13,4%	42	14,1%	37	12,6%	
	Pancreas	124	21,0%	61	20,5%	63	21,4%	
	Stomach	41	6,9%	22	7,4%	19	6,5%	
Metastatis	Yes	58	9,8%	28	9,4%	30	10,2%	
Planned surgery	Colectomy	328	55,4%	164	55,2%	164	55,6%	
	Proctectomy	76	12,8%	38	12,8%	38	12,9%	
	Pancreatectomy	125	21,1%	61	20,5%	64	21,7%	
	Hepatectomy	22	3,7%	12	4,0%	10	3,4%	
	Gastrectomy	41	6,9%	22	7,4%	19	6,4%	
ECOG-PS	0	233	42,0%	127	45,8%	106	38,1%	
	1	207	37,3%	93	33,6%	114	41,0%	
	2	91	16,4%	43	15,5%	48	17,3%	
	3	21	3,8%	11	4,0%	10	3,6%	
	4	3	0,5%	3	1,1%	0	0,0%	
G8 score (/14)	22.5	534	12 (10-14)	266	12 (10-14)	268	12(10-14)	
G8 <14, n(%)		433	81,1%	213	80,1%	220	82,1%	
BMI, kg/m², median (Q1-Q3))	549	24 (21-26)	276	24(21-27)	273	24(21-26)	
10% Unintentional Weight lo		289	53,0%	143	52,4%	146	53,7%	
ADL_SCORE (/6)		551	6 (5.5-6)	277	6 (5.5-6)	274	6(5.5-6)	
ADL_SCORE (/4)		542	4 (4-4)	273	4(4-4)	269	4(3-4)	
Charlson comorbidity score (/24)	522	2(0-3)	260	2(0-3)	262	2(0-2)	
Altered Mini-COG (<4/5)	1	96	26,2%	48	25,9%	48	26,4%	
Altered mini GDS (>=1/4)	1	178	33,7%	84	31,6%	94	35,9%	
Altered TGUG (>20s)	1	58	20,8%	27	19,7%	31	21,8%	



CONCLUSIONS

Rectal surgery has a high morbidity rate compared to colon surgery. The risk of permanent stoma is 30% in elderly patients, is poorly accepted, and leads to a loss of independence. Now, during every multidisciplinary team meeting, we must ask ourselves whether surgery can be avoided and the rectum preserved, and determine the therapeutic objective for an elderly patient based on their condition.

Perhaps we need to accept a higher risk of recidivism or poorer local control?



CONCLUSIONS

Different protocols exist

- For small tumors, CAP 50 is preferred
- □ For large tumors, short RT with Folfox or Capox chemotherapy which does not compromise potential organ preservation

And, above all, working together with surgeons and geriatricians from the onset of the disease to choose the most appropriate strategy and support patients in terms of nutrition and physical activity



Thank you for your attention

