

INNOVATE. COLLABORATE. TRANSFORM



ASTRO'S 61ST ANNUAL MEETING

September 15-18, 2019

McCormick Place | Chicago, Illinois

Management of Advanced Rectal Cancer

Sebastián Solé M. D.

Clínica IRAM

Universidad Diego Portales



Objetivos de aprendizaje

- Conocer la evidencia que apoya el uso de adyuvancia en cáncer de recto localmente avanzado
- Comprender los beneficios y la evidencia detrás de las nuevas tendencias en adyuvancia en cáncer de recto localmente avanzado

Cáncer de Recto en Chile

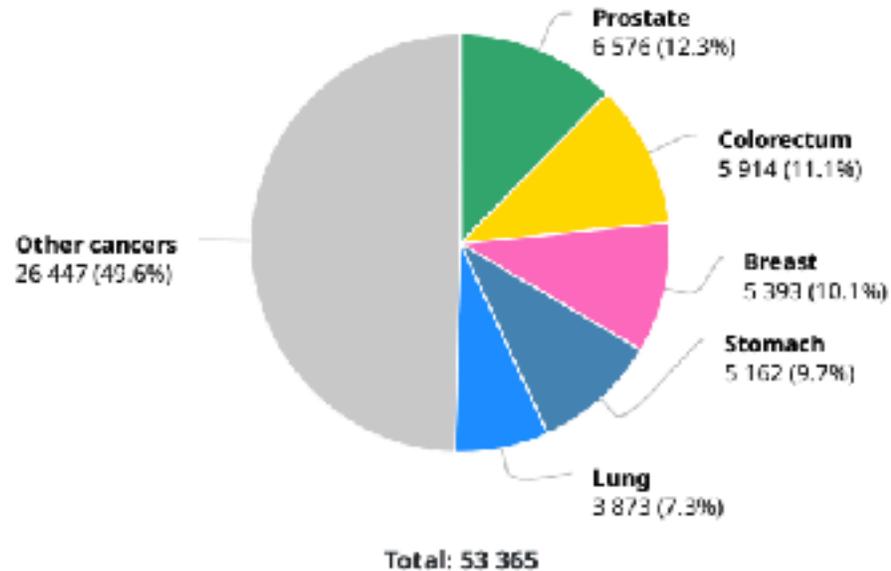
International Agency for Research on Cancer



Chile

Source: Globocan 2018

Number of new cases in 2018, both sexes, all ages



Colorectum
5,914 (11.1%)

Es necesario hacer tratamientos adyuvantes

The New England Journal of Medicine

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Volume 312

JUNE 6, 1985

Number 23

PROLONGATION OF THE DISEASE-FREE INTERVAL IN SURGICALLY TREATED RECTAL CARCINOMA

GASTROINTESTINAL TUMOR STUDY GROUP

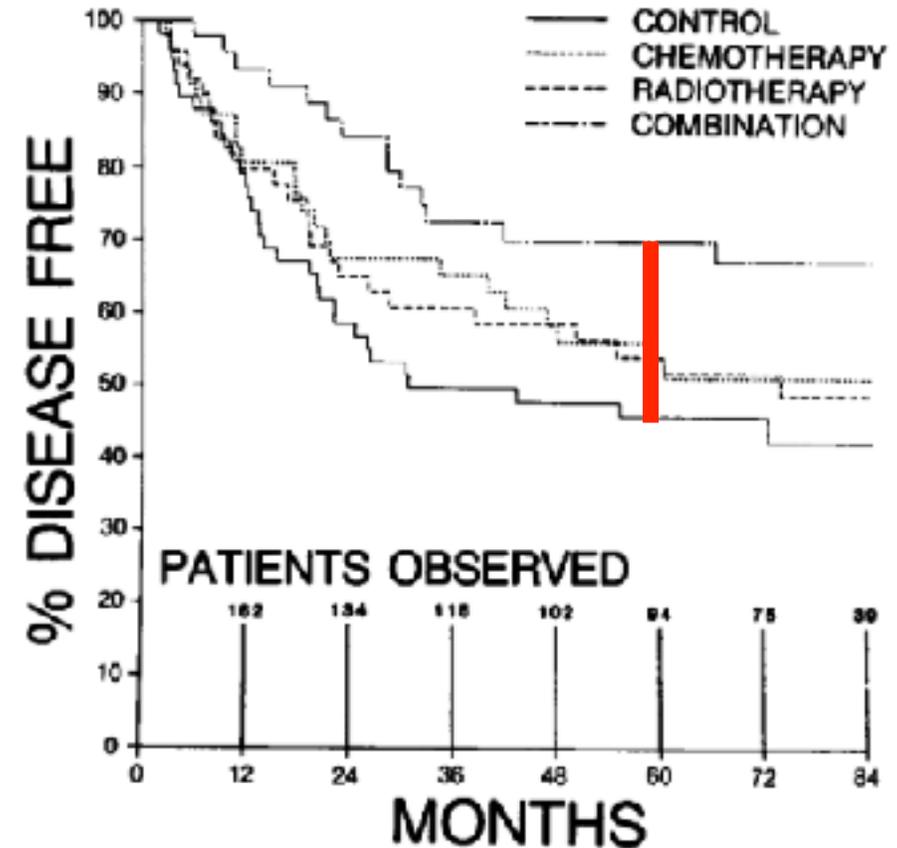


Figure 2. Time to Recurrence, According to Treatment.

GTSG, NEJM 1985

Es mejor la neoadyuvancia que la adyuvancia

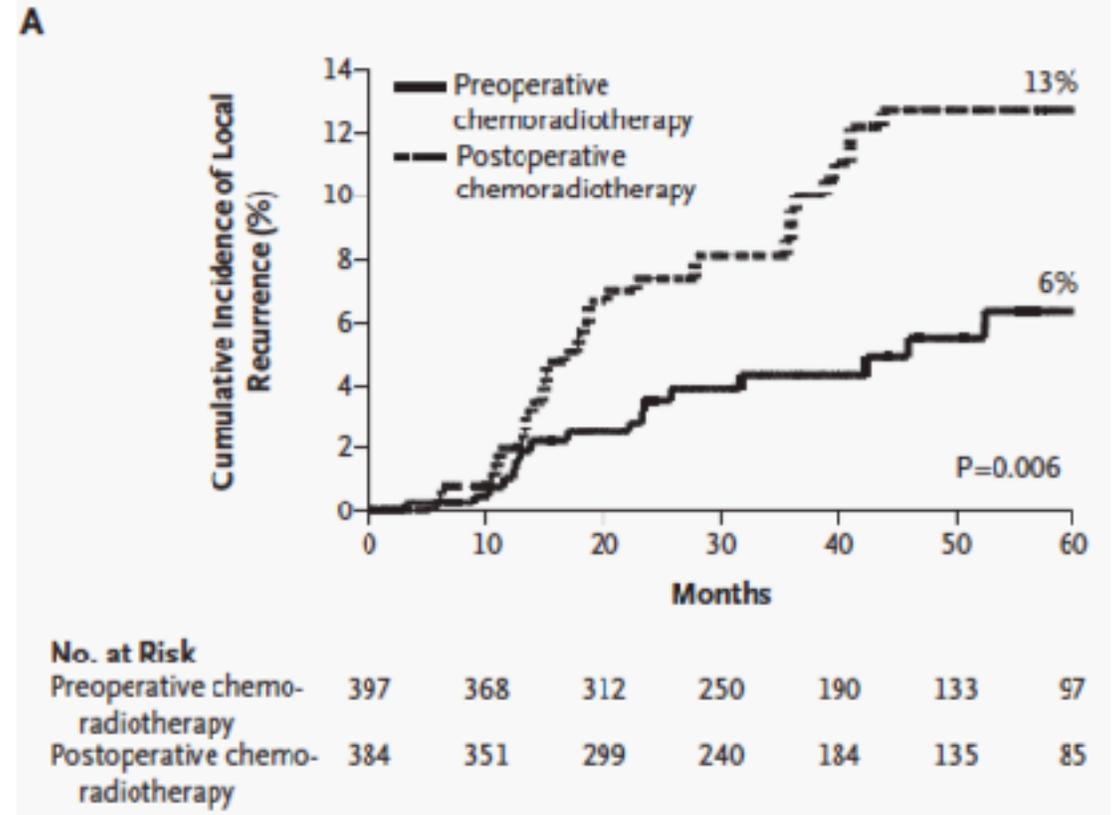
ORIGINAL ARTICLE

Preoperative versus Postoperative Chemoradiotherapy for Rectal Cancer

Rolf Sauer, M.D., Heinz Becker, M.D., Werner Hohenberger, M.D.,
Claus Rödel, M.D., Christian Wittekind, M.D., Rainer Fietkau, M.D.,
Peter Martus, Ph.D., Jörg Tschmelitsch, M.D., Eva Hager, M.D.,
Clemens F. Hess, M.D., Johann-H. Karstens, M.D., Torsten Liersch, M.D.,
Heinz Schmidberger, M.D., and Rudolf Raab, M.D.,
for the German Rectal Cancer Study Group*

RTQT por 5-6 semanas

Sauer, NEJM 2004



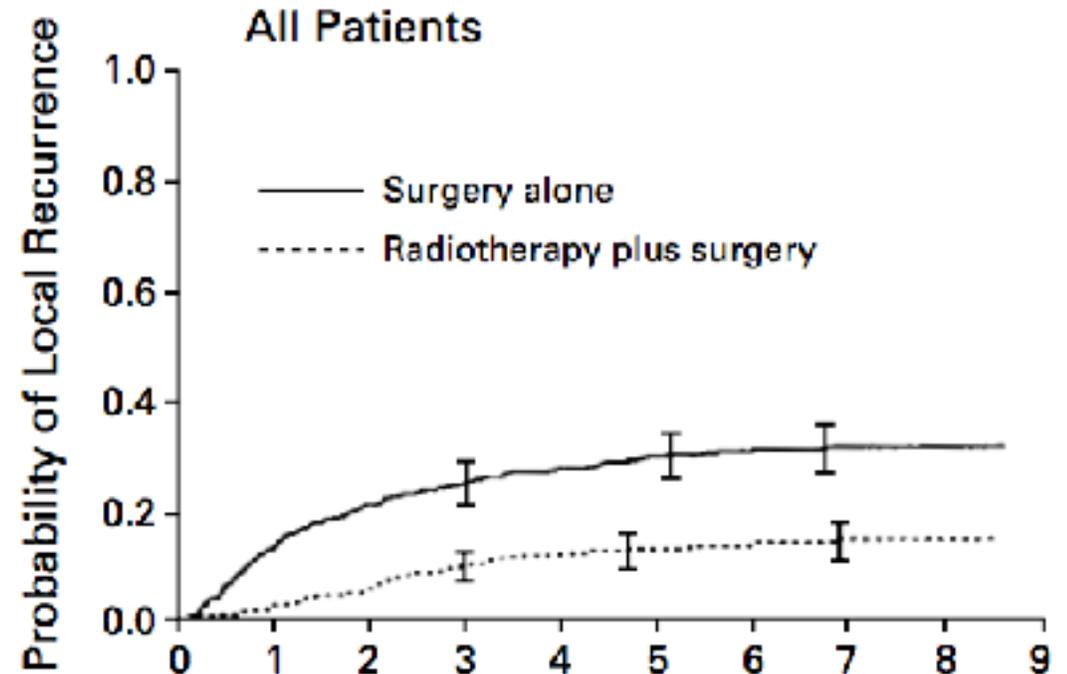
Otro tipo de neoadyuvancia efectiva

The New England Journal of Medicine

IMPROVED SURVIVAL WITH PREOPERATIVE RADIOTHERAPY IN RESECTABLE RECTAL CANCER

SWEDISH RECTAL CANCER TRIAL*

**RT corta (1 semana)
sin QT**



Pahlman, NEJM 1997

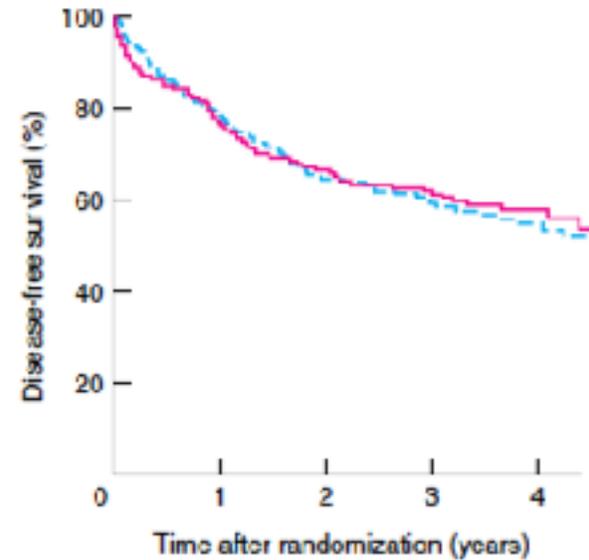
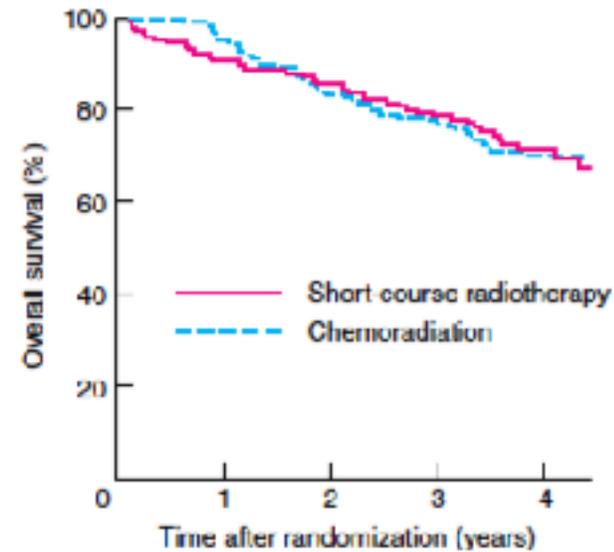
¿Cuál neoadyuvancia es mejor?

Randomized clinical trial

Long-term results of a randomized trial comparing preoperative short-course radiotherapy with preoperative conventionally fractionated chemoradiation for rectal cancer

K. Bujko¹, M. P. Nowacki², A. Nasierowska-Guttmejer³, W. Michalski⁴, M. Bebenek⁵ and M. Kryj⁶ for the Polish Colorectal Study Group

Departments of ¹Radiotherapy, ²Colorectal Cancer, ³Pathology and ⁴Biostatistics, Maria Skłodowska-Curie Memorial Cancer Centre, Warsaw, ⁵Departments of Surgery, Silesian Oncological Centre, Wrocław and ⁶Department of Surgery, Maria Skłodowska-Curie Memorial Cancer Centre, Gliwice, Poland
Correspondence: Dr K. Bujko, The Maria Skłodowska-Curie Memorial Cancer Centre and Institute of Oncology, W. K. Roentgena 5, 01-781 Warsaw, Poland (e-mail: bujko@oi.waw.pl)



Bujko, Br J Surg 2006

¿Cuál neoadyuvancia es mejor?

VOLUME 30 • NUMBER 21 • NOVEMBER 3, 2012

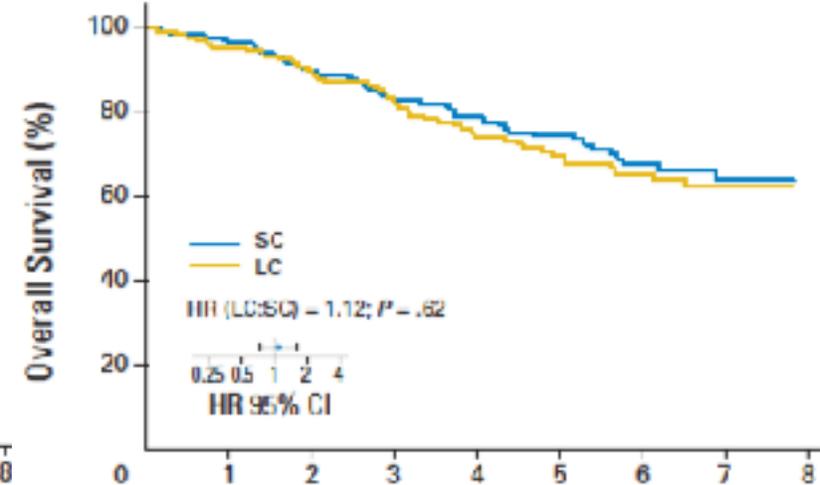
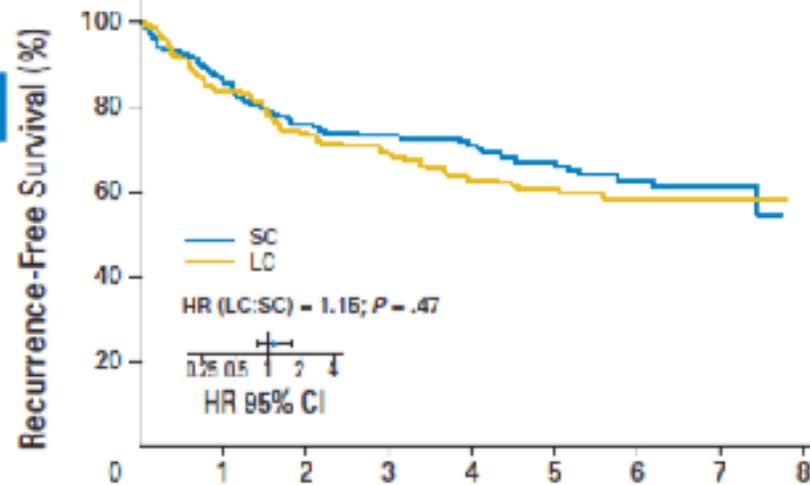
JOURNAL OF CLINICAL ONCOLOGY

ORIGINAL REPORT

Randomized Trial of Short-Course Radiotherapy Versus Long-Course Chemoradiation Comparing Rates of Local Recurrence in Patients With T3 Rectal Cancer: Trans-Tasman Radiation Oncology Group Trial 01.04

Samuel Y. Ngan, Richard J. Fisher, Steve McDonald, Sue Anne McKeown, Terence Leung, John Tilberg, and John Mackay; Peter MacCallum Cancer Centre, Sue Anne McKeown, D

Samuel Y. Ngan, Bryan Runswick, Richard J. Fisher, Michael Sidranski, David Goldstein, Faisal Durrani, Stephen P. Allread, David Schork, Fou-Jen Tsai, Sue Anne McKeown, Joseph McKeown, Terence Leung, Chris Karamanos, John Zaichuk, and John Mackay



Ngan, JCO 2012

¿Cómo se explica esto?

Radiobiología

Esquema	Tumor $\alpha\beta=5$	Tumor c/ corrección de t	Tejido Sano $\alpha\beta=3$
5x5 Gy	35,7 Gy	35,7 Gy	40Gy
25x2 Gy	50Gy	50-15,6 =34,4 Gy	50Gy

25 Gy en 5 fx es un poco más dosis en tumor que 50 Gy en 25 fx

$$EQD2 (\alpha\beta) = (d+\alpha\beta) / (2+\alpha\beta)$$

$$\text{Time correction: } EQD2 (\alpha\beta) - (OTT\text{-delay}) D_{\text{prolif}}$$

$$\text{Repair rate} = D_{\text{prolif}} = 0,6\text{Gy/day}$$

Proliferation delay: 7 days

25 Gy en 5 fx tiene 4 veces más pCR

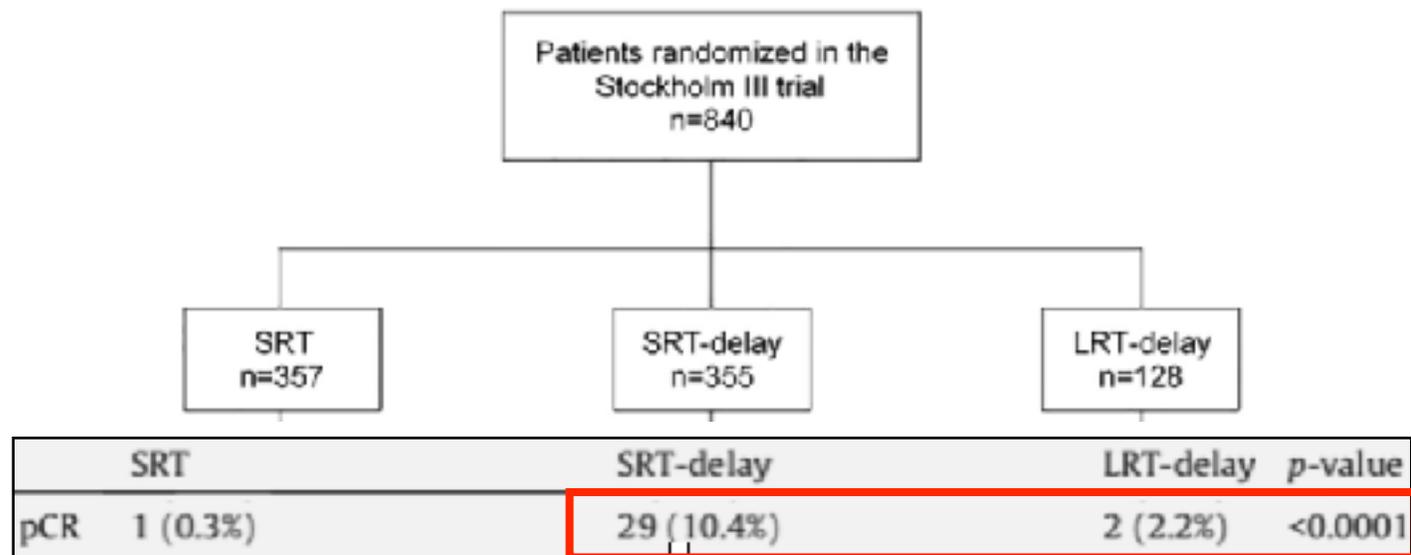


Original Article

Tumour regression after radiotherapy for rectal cancer – Results from the randomised Stockholm III trial

Johan Erlandsson^{1,4,5}, Ester Löhrne^{2,3}, Madelene Ahlberg^{4,5}, David Pettersson^{1,3}, Torbjörn Holm^{4,5}, Bengt Glimelius^{1,4}, Anna Martling^{2,3}

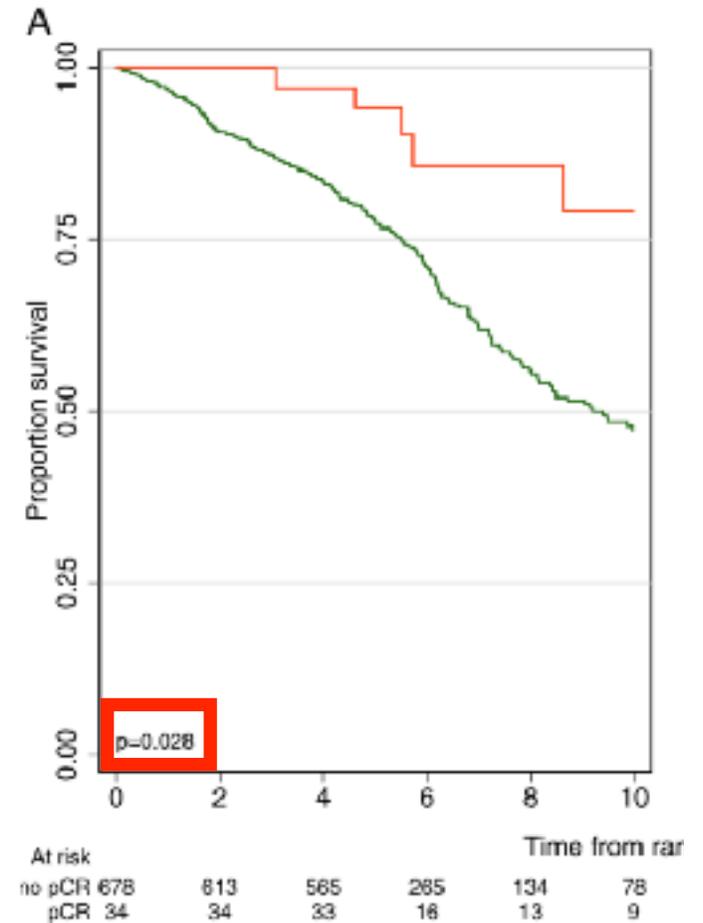
¹Department of Molecular Medicine and Surgery, Karolinska Institutet and Department of Colorectal Cancer, Karolinska University Hospital; ²Division of pathology, Karolinska University Hospital; ³Department of Pathology and Cytology, Skåne University Hospital; ⁴Department of Molecular Medicine and Surgery, Karolinska Institutet and Department of Surgery, Norra Älvsjö Hospital; and ⁵Department of Immunology, Genetics and Pathology, Experimental and Clinical Oncology, Uppsala University, Sweden



Erlandsson, Radiother Oncol 2019

pCR se asoció a mejor sobrevida

In conclusion, 5×5 Gy in one week with a delay of surgery between 4 and 8 weeks induces pCR in about 10 per cent of the patients and is in this respect superior to $2 \text{ Gy} \times 25$ in five weeks. A very good RT response in the tumour, TRG 4 using the Dworak system, or a pCR, is associated with superior OS and TTR.



Erlandsson, Radiother Oncol 2019

Por Radiobiología y pCR:

25 Gy en 5 fx es mejor que 50 Gy en 25 fx

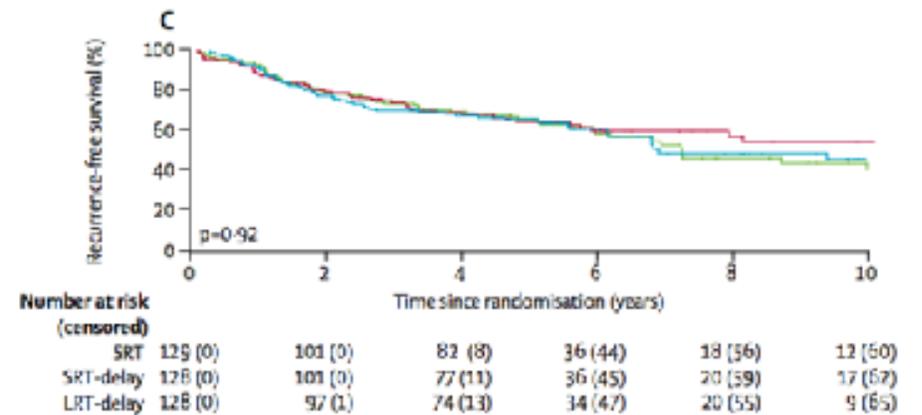
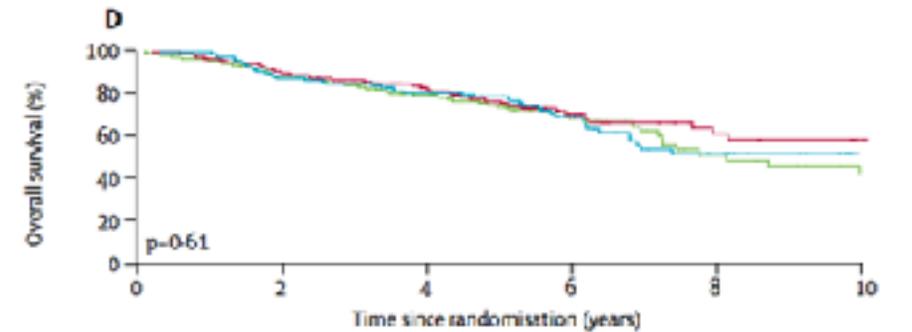
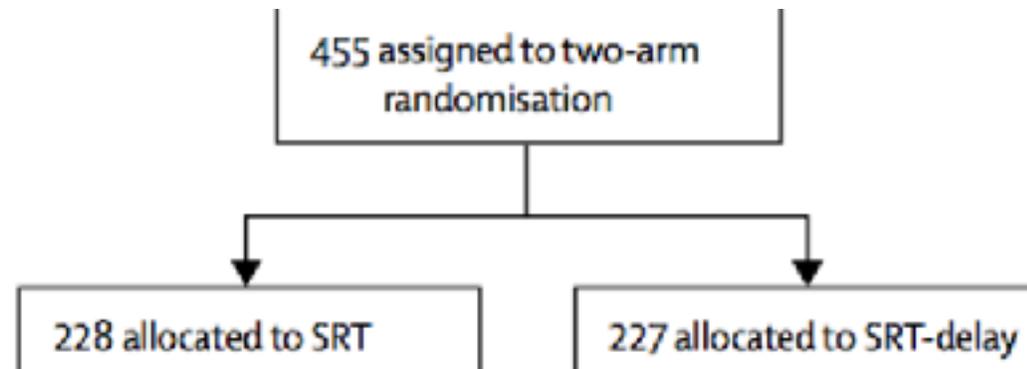
25 Gy en 5 fx: ¿Cirugía inmediata o delay?

Optimal fractionation of preoperative radiotherapy and timing to surgery for rectal cancer (Stockholm III): a multicentre, randomised, non-blinded, phase 3, non-inferiority trial

Johan Erlandsson, Torbjörn Holm, David Pettersson, Åke Berglund, Björn Cedermark, Colin Raut, Hemming Johansson, Mikael Machado, Fredrik Hjern, Olof Hallböök, Ingvar Syk, Bengt Glimelius, Anna Martling

Summary

Background Radiotherapy reduces the risk of local recurrence in rectal cancer. However, the optimal radiotherapy



Erlandsson, Lancet Oncol 2017

25 Gy en 5 fx: ¿Cirugía inmediata o delay?

	SRT (n=357)	SRT-delay (n=355)	p value
Complications			
Any postoperative complication	188 (53%)	144 (41%)	..
OR (95% CI)	1.00 (ref)	0.61 (0.45-0.83)	0.001†
Any surgical complication	128 (36%)	100 (28%)	..
OR (95% CI)	1.00 (ref)	0.70 (0.51-0.96)	0.03†
Reoperation	43 (15%)	37 (14%)	..
OR (95% CI)	1.00 (ref)	0.88 (0.55-1.41)	0.59†

Erlandsson, Lancet Oncol 2017

25 Gy en 5 fx con delay para cirugía tiene
menos complicaciones

¿Y que hacemos durante el delay?

surgery. Thus, short-course radiotherapy with delay presents the opportunity to give neoadjuvant chemotherapy during the interval between radiotherapy and surgery.

Erlandsson, Lancet Oncol 2017

¿Debemos mejorar lo que hacemos?

VOLUME 30 - NUMBER 10 - JUNE 1 2012

JOURNAL OF CLINICAL ONCOLOGY

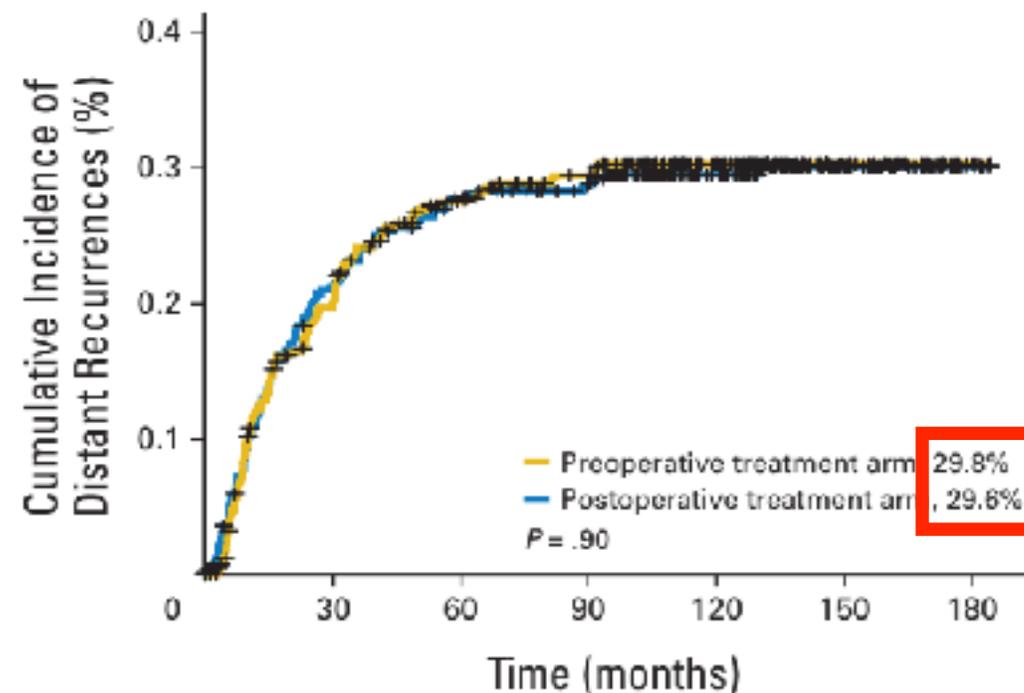
ORIGINAL REPORT

Preoperative Versus Postoperative Chemoradiotherapy for Locally Advanced Rectal Cancer: Results of the German CAO/ARO/AIO-94 Randomized Phase III Trial After a Median Follow-Up of 11 Years

Rolf Sauer, Torsten Lenz, Susanne Merkel, Balzer Siekmann, Werner Hohenberger, Claus G. Hesse, Hans Becker, Hans Rudolf Kahl, Marie-Therese Vilanova, Helmut Wittigmann, Christian Wittekind, Tim Beinhardt, and Claus Rödel

30% de recurrencia a distancia

B

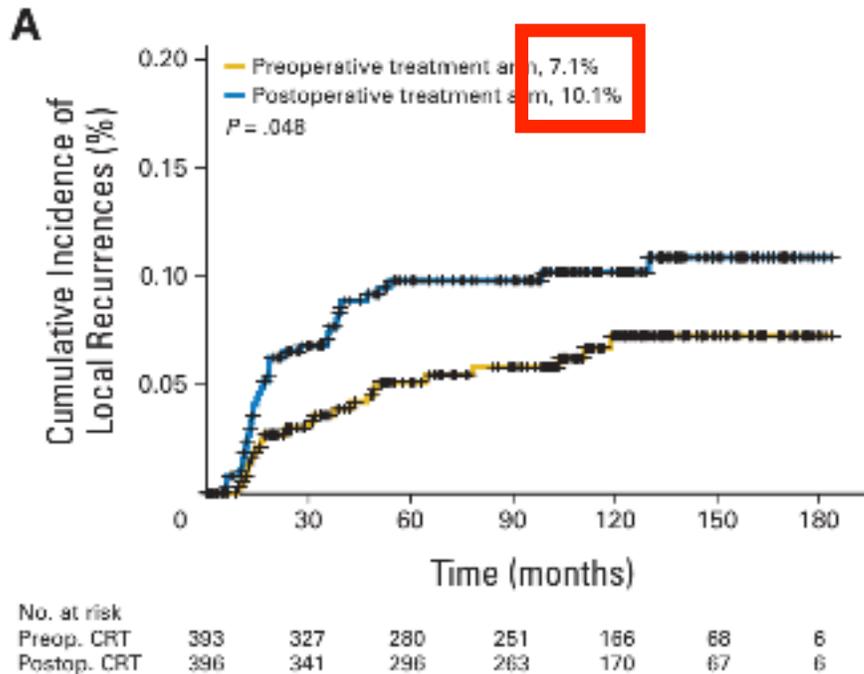


No. at risk	0	30	60	90	120	150	180
Preop. CRT	393	295	262	241	158	60	5
Postop. CRT	396	310	267	246	162	63	6

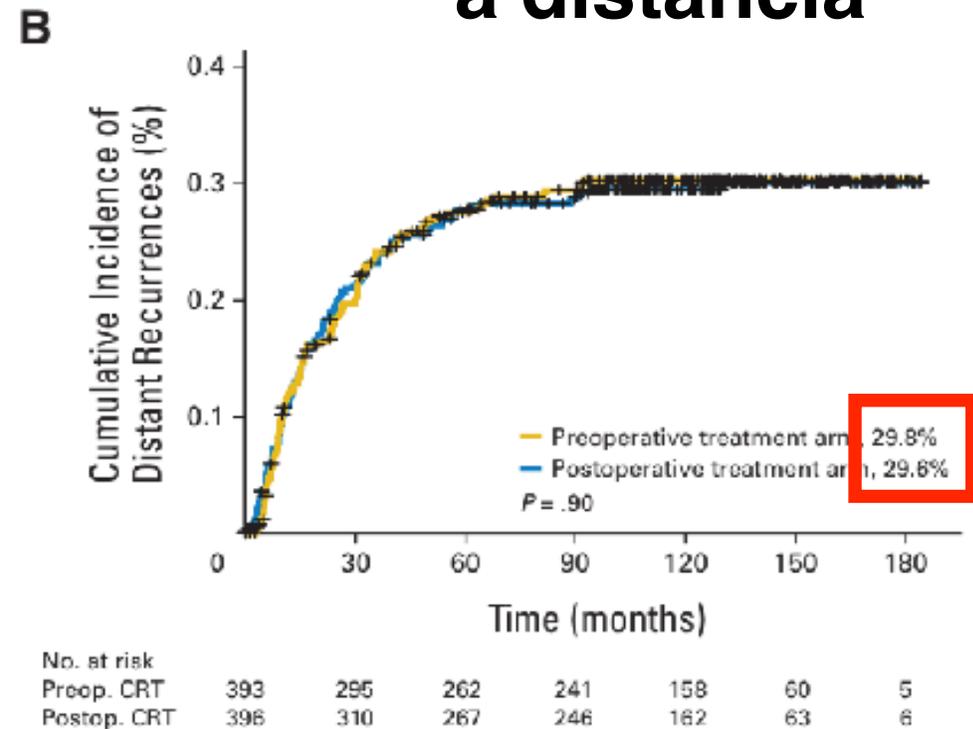
Sauer, JCO 2012

¿Cómo mejorar lo que hacemos?

**7-10% de
recurrencia local**

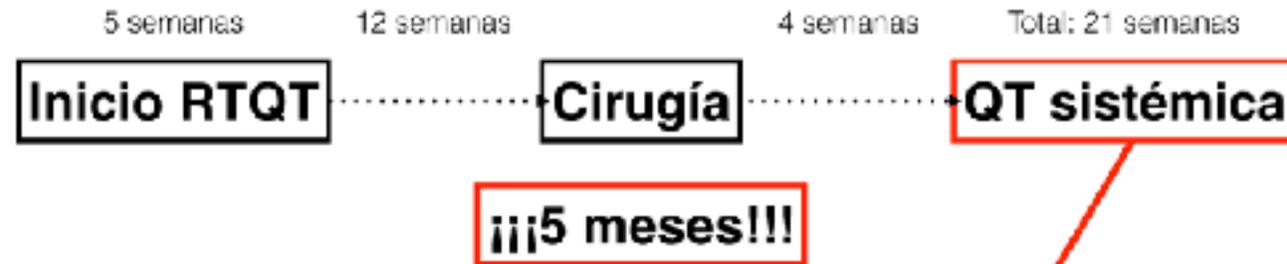


**30% de recurrencia
a distancia**



Sauer, JCO 2012

Nuestros esfuerzos deben ir en disminuir la recurrencia a distancia



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NCCN National Comprehensive Cancer Network® **NCCN Guidelines Version 2.2018 Rectal Cancer** [NCCN Guidelines Index](#) [Table of Contents](#) [Discussion](#)

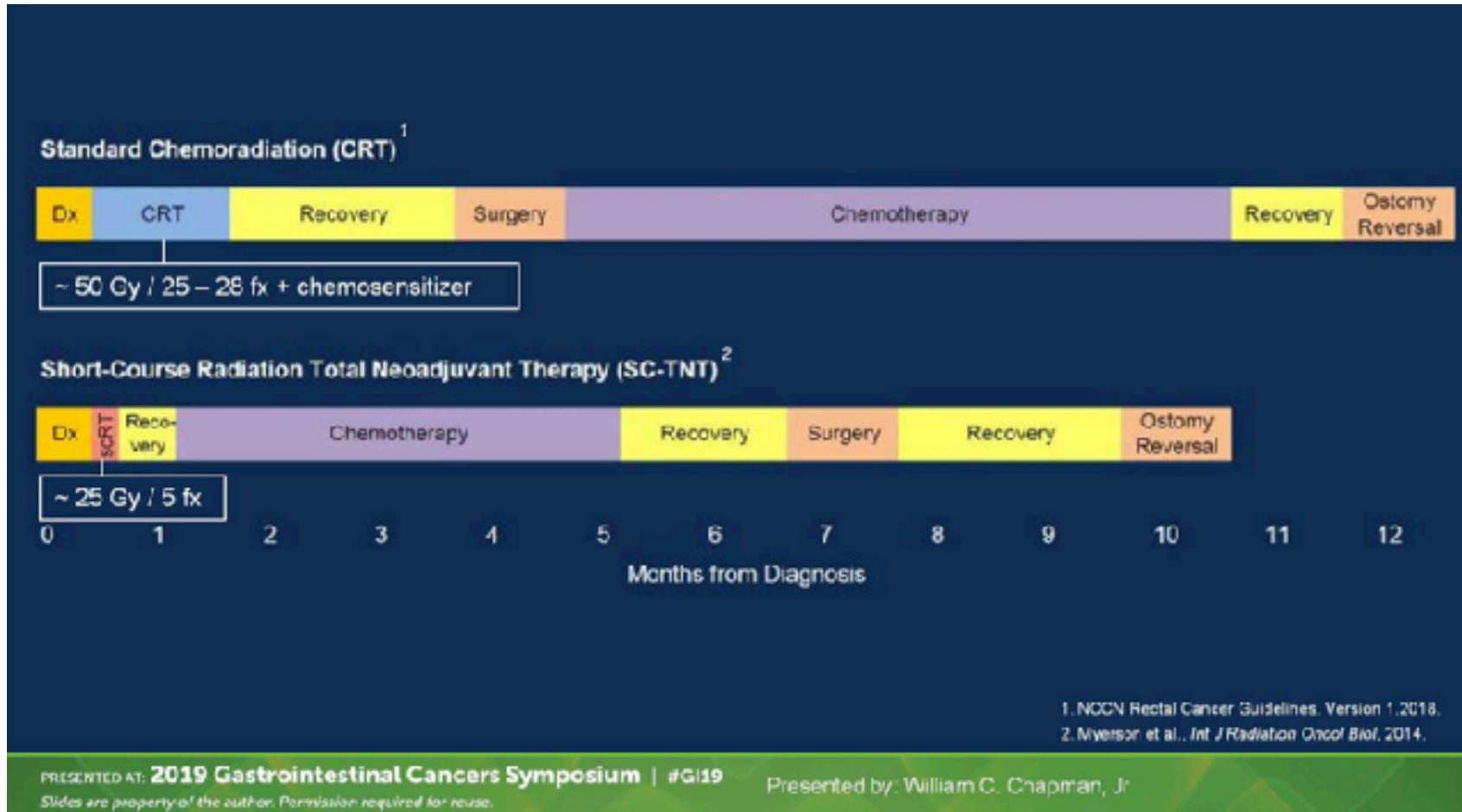
CLINICAL STAGE	NEOADJUVANT THERAPY	PRIMARY TREATMENT	ADJUVANT TREATMENT ^{a,b,c} (S MO PERIOPERATIVE TREATMENT IS PREFERRED)
T2, N any with clear circumferential margin (CRM) (by MRI); T1-2, N1-2	ChemoRT • Capecitabine long-course RT ^d or infusional 5-FU/long-course RT ^d (category 1 and preferred for both) or • Bolus 5-FU/leucovorin/long-course RT ^{d,e}	Consider restaging ^g → Transabdominal resection ^{h,i,j} → Resection contraindicated	[T3, NO before chemoRT] → 5-FU/leucovorin or capecitabine or FOLFOX (preferred) or CAPOX (preferred) → Surveillance (See REC-11) [T3-4, N1-2 before chemoRT] → FOLFOX or CAPOX → Surveillance (See REC-11) → Systemic therapy ^g (See REC-E)
	RT^d • Short-course RT ^d or	Chemotherapy • FOLFOX (preferred) or CAPOX (preferred) or • 5-FU/leucovorin or capecitabine	[Capecitabine RT (preferred) or infusional 5-FU/RT (preferred) or bolus 5-FU/leucovorin/RT ^d or short-course RT ^d] → Restaging ^g → Transabdominal resection ^{h,i,j} → Resection contraindicated

¿Cómo dar QT efectiva antes en el curso de la enfermedad sin perder el control local?



Tratamiento **N**eoadyuvante **T**otal

¿Cómo dar QT efectiva antes en el curso de la enfermedad sin perder el control local?



¿Estudios randomizados?

Resultados iniciales del estudio STELLAR

The initial results for a phase III study of short-term versus long-term chemoradiotherapy in locally advanced rectal cancer (STELLAR trial)

Y. Tang¹, J. Jin¹, S. Li¹, N. Li¹, Y. Zhu², S-X. Liu³, W-L. Wang⁴, J. Wang⁵, X. Wang⁶, G-F. Li⁷, M. Shi⁸, L. Fan⁹, K. Zhang¹⁰, H. Ren¹, Y-X. Li¹, H. Fang¹, W-H. Wang¹, Y-W. Song¹, Y-P. Liu¹, S-L. Wang¹, Y. Tang¹, B. Chen¹

Corresponding Author: Jing Jin¹

¹Radiation Oncology, Cancer Hospital and Institute, Chinese Academy of Medical Sciences (CAMS) and Peking Union Medical College (PUMC), Beijing, China

²Radiation Oncology, Zhejiang Provincial Cancer Hospital, Hangzhou, China

³Radiation Oncology, Jilin Provincial Cancer Hospital, Changchun, China

⁴Radiation Oncology, Guizhou Provincial Cancer Hospital, Guiyang, China

⁵Radiation Oncology, Hubei Provincial Cancer Hospital, Shijiazhuang, China

⁶Radiation Oncology, West China Hospital, Sichuan University, Chengdu, China

⁷Radiation Oncology, Beijing Hospital, Beijing, China

⁸Radiation Oncology, Xijing Hospital, Xi'an, China

⁹Radiation Oncology, Sichuan Provincial Cancer Hospital, Chengdu, China

¹⁰Radiation Oncology, Qinghai Red Cross Hospital, Xining, China



ASTRO 2016

ENHANCING VALUE
IMPROVING OUTCOMES

Trial Design

Control group
Experimental group

- Aged 18-70
- Distal or middle third rectal adenocarcinomas
- T3-T4 and/or N+ diagnosed by MRI
- ECOG PS 0-1
- No previous anti-cancer treatments

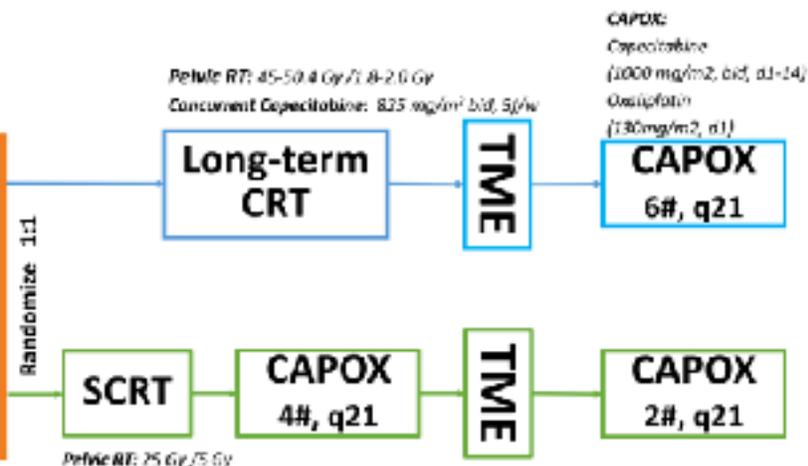
Estimated Enrollment: 552

Primary Endpoint

3y-DFS

Secondary Endpoints

OS, LC, DM, Surgical complications, Toxicities, QOL



- Stratified by status of mesorectal fascia (MRF) : (MRF- vs. MRF+)
- Non inferiority comparison

ASTRO 2016

ENHANCING VALUE
IMPROVING OUTCOMES

Tang, ASTRO 2016

#ASTRO19

Resultados iniciales del estudio STELLAR

Surgery and Histopathology		SCRT + CT (N=37)		CRT (N=38)	
		No.	%	No.	%
Operative model	Anterior resection	15	40.5%	16	42.1%
	Abdominoperineal resection	21	56.7%	22	57.9%
	Hartmann's	1	2.8%	0	0
R0 resection	Yes	34	91.9%	34	89.5%
	No	3	8.1%	4	10.5%
pCR rate		9	25.7%	3	7.9%

Treatment after neoadjuvant radiotherapy or chemotherapy		SCRT + CT (N=60)		CRT (N=58)	
		No.	%	No.	%
Radical surgery		37	61.7%	38	65.5%
Waiting for surgery		13	21.6%	10	17.2%
Wait and watch due to CCR of tumor		7	11.7%	0	0

Tang, ASTRO 2016

Actualización STELLAR

496P Short-term radiotherapy plus chemotherapy versus long-term chemoradiotherapy in locally advanced rectal cancer (STELLAR): A planned interim analysis

J. Jin¹, Y. Tang¹, S. Liu², Y. Zhu³, W. Wang⁴, G. Li⁵, X. Wang⁶, J. Wang⁷, J. Yang⁸, S. Li¹, N. Li¹, W. Liu¹, Y. Li¹, Y. Chi⁹, A. Zhou¹⁰, J. Huang⁹, X. Wang¹¹, L. Jiang¹², J. Jiang¹², S. Zou¹³

Conclusions: The interim analysis revealed the acute toxicity and surgical complication were acceptable and comparable in both groups, however, the people in experimental group showed better treatment completion.

Clinical trial identification: NCT02533271.

26.2% vs 5.3% of them achieved ypT₀N₀ (p = 0.011).

Jin, ESMO 2018

¿Por qué es importante lograr CR?

Long-term outcomes of clinical complete responders after neoadjuvant treatment for rectal cancer in the International Watch & Wait Database (IWWD): an international multicentre registry study

Maxime JM van der Valk, Denise E Hilling, Esther Bastiaannet, Elma Meershoek-Klein Kranenborg, Gerard L Beets, Muno L Figueiredo, Angelita I Labrador-Gama, Rodrigo O Perez, Andrew G Renehan, Cornelis J H van de Velde, and the IWWD Consortium*

Summary

Background The strategy of watch and wait (W&W) in patients with rectal cancer who achieve a complete clinical response (cCR) after neoadjuvant therapy is new and offers an opportunity for patients to avoid major resection surgery. However, evidence is based on small-to-moderate sized series from specialist centres. The International Watch & Wait Database (IWWD) aims to describe the outcome of the W&W strategy in a large-scale registry of pooled individual patient data. We report the results of a descriptive analysis after inclusion of more than 1000 patients in the registry.

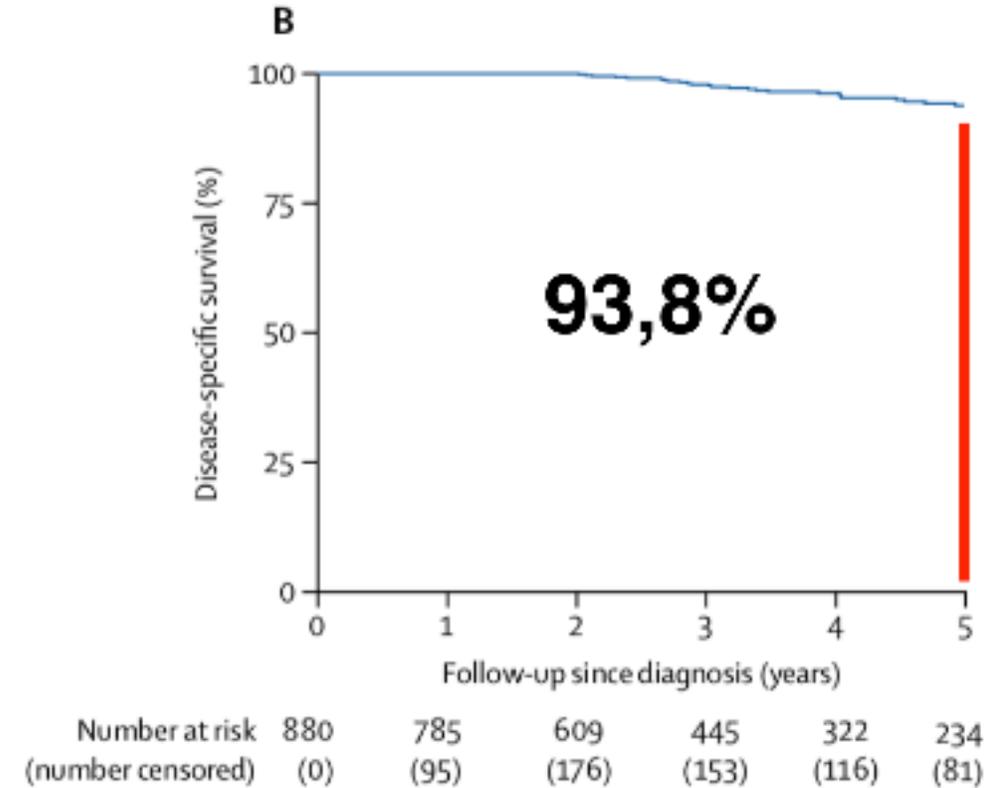
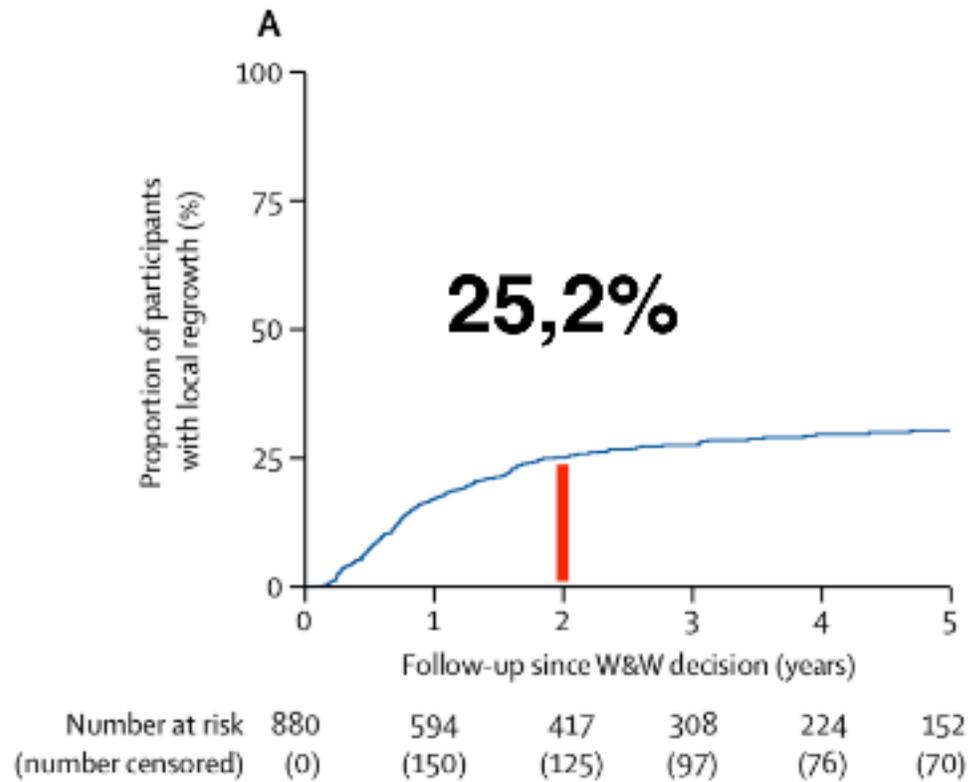
Total number of patients (N=880)

cT3	451 (51%)
cT4	30 (3%)
cN1	271 (31%)
cN2	167 (19%)

Mediana de seguimiento 3,3 años

van der Valk, Lancet 2018

¿Por qué es importante lograr CR?

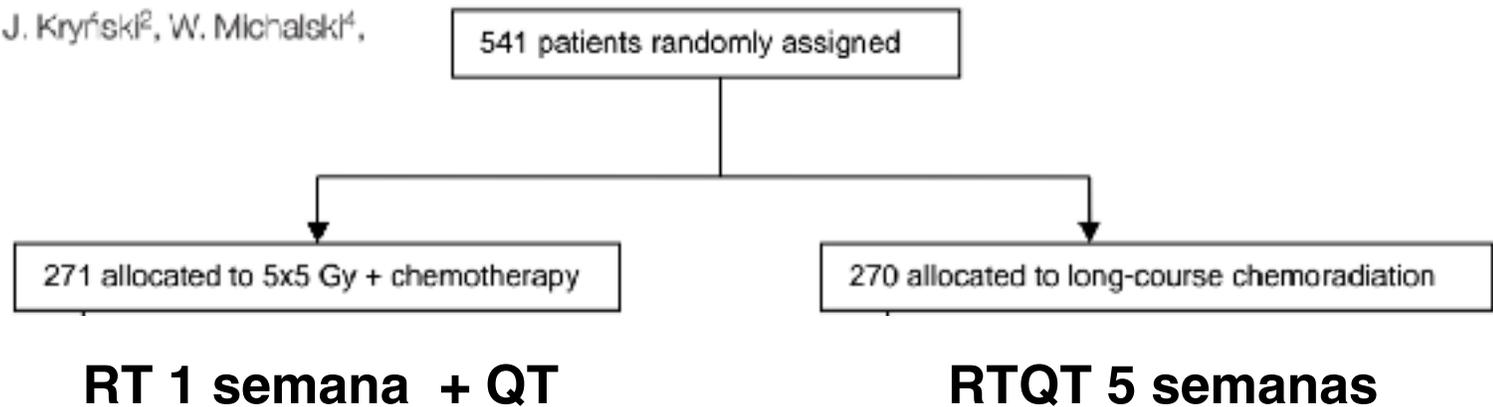


van der Valk, Lancet 2018

Estudio Polaco II

Long-course oxaliplatin-based preoperative chemoradiation versus 5 × 5 Gy and consolidation chemotherapy for cT4 or fixed cT3 rectal cancer: results of a randomized phase III study

K. Bujko^{1*}, L. Wyrwicz², A. Rutkowski², M. Malinowska³, L. Pietrzak¹, J. Kryński², W. Michalski⁴,



Bujko, Ann Oncol 2016

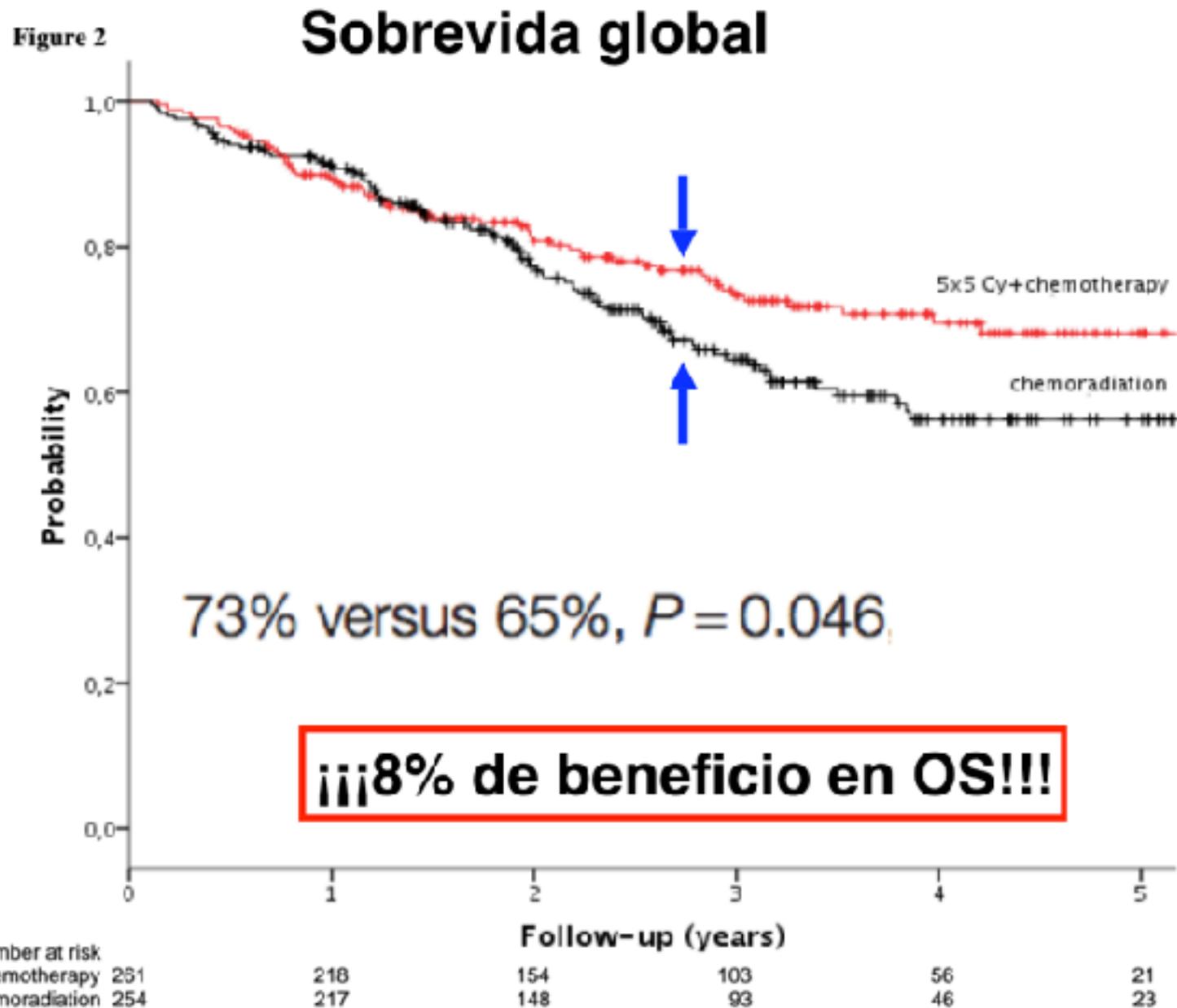
Estudio Polaco II

Table 1. Patients' characteristics.

	5+5 Gy + chemotherapy <i>N=261</i>	Long-course chemoradiation <i>N=254</i>
Gender		
Female	78 (30)	85 (33)
Male	183 (70)	169 (67)
Age in years, median (IQR)	60 (54 - 66)	60 (56 - 65)
Pelvic MRI		
Yes	172 (66)	164 (65)
No	88 (34)	89 (35)
No data	1	1
Type of tumour		
Primary fixed cT3 [diagnosed on MRI]	88 (34) [57 (33)]	83 (33) [59 (36)]
Primary cT4 [diagnosed on MRI]	165 (63) [112 (65)]	163 (64) [101 (62)]
Recurrent [diagnosed on MRI]	8 (3) [3 (2)]	8 (3) [4 (2)]
Who performance score		
0	129 (49)	126 (50)
1	120 (46)	115 (45)
2	11 (4)	13 (5)
3	1 (0.5)	0
Distance between tumour and anal verge in cm		
0-5	148 (57)	138 (55)
>5-10	106 (41)	99 (39)
>10-15	7 (3)	16 (6)
No data		1

Numbers in the table denote number of patients (%) unless otherwise stated.

Estudio Polaco II

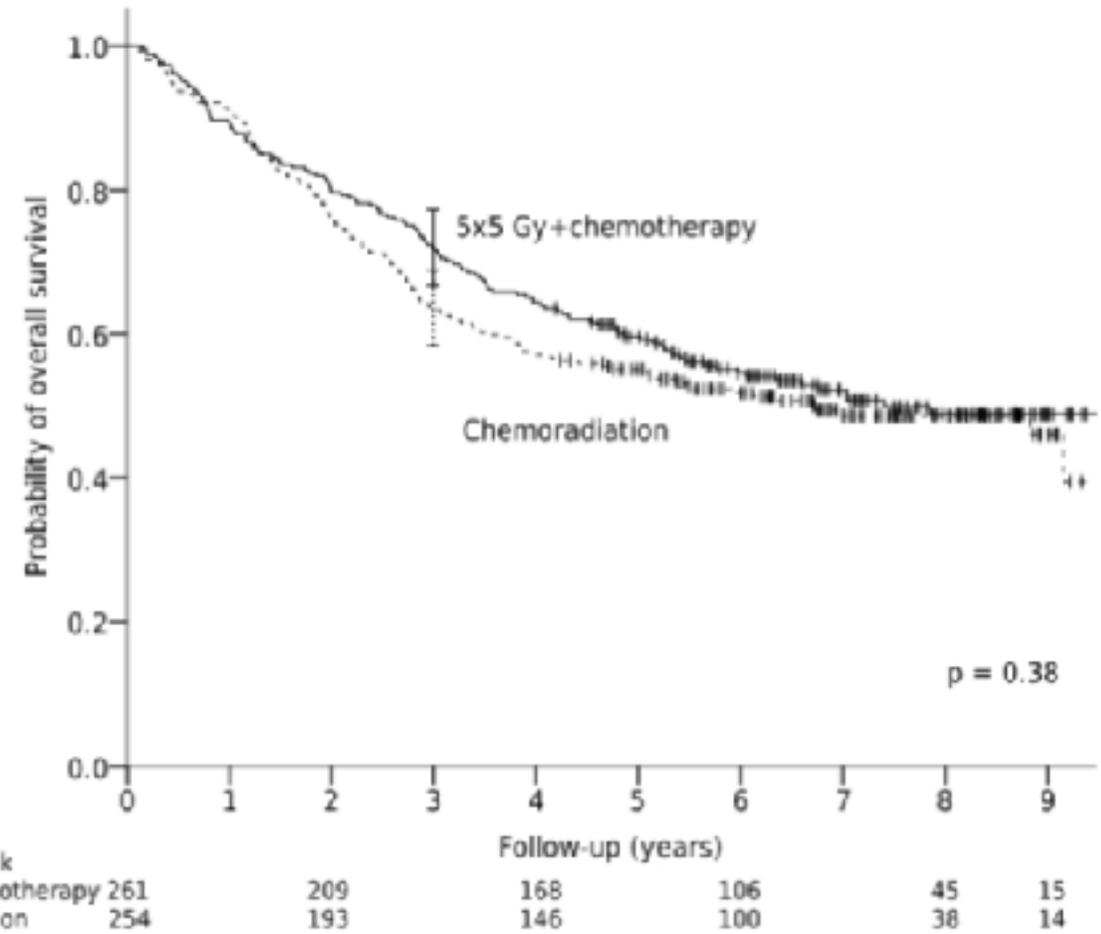


Bujko, Ann Oncol 2016

Actualización estudio Polaco II

Long-course preoperative chemoradiation vs. 5 x 5 Gy and consolidation chemotherapy for clinical T4 and fixed clinical T3 rectal cancer: Long-term results of the randomized Polish II study

B. Cisel¹, L. Pietrzak², W. Michalski³, L. Wyrwicz⁴, A. Rutkowski⁵, E. Kosakowska⁵, A. Cencelewicz⁶, M. Spalek², W. Polkowski¹, M. Jankiewicz^{1,6}, R. Styliński⁷, M. Bębenek⁸, B. Kapturkiewicz⁹, A. Maciejczyk⁹, J. Sadowski¹⁰, J. Zygulska¹¹, W. Zegarski¹², M. Jankowski¹², M. Las-Jankowska¹³, Z. Toczko¹⁴, U. Żelazowska-Omiotek¹⁵, L. Kępka¹⁶, J. Socha^{16,17}, E. Wasilewska-Tesluk^{18,19}, W. Markiewicz²⁰, J. Kładny²¹, A. Majewski²², W. Kapuściński²³, R. Suwiński²⁴ and K. Bujko² for the Polish Colorectal Study Group



Cisel, Ann Oncol 2019

Actualización estudio Polaco II

The calculation of the sample size showed that to detect at least a 10% benefit in radical surgery rate, 540 patients were needed.

Twenty-six patients were excluded, leaving 515 patients for analysis.

The corresponding values for radical resection rate were **77% vs. 71%**, $P = 0.07$ and for pCR (ypT0N0) 16% vs. 12%, $P = NS$.

Oxaliplatin was given to 70% of patients.

Median OS was 89 months vs. 81 months in the short-course/CCT group vs. the chemoradiation group, respectively; for 8 months difference, 95% CI was -23 to 38 months. $P = NS$.

Median follow-up for living patients was 7.0 years.

Acute toxicity of preoperative treatment was lower in the short-course/CCT group than in the chemoradiation group, $P = 0.006$.

Cisel, Ann Oncol 2019

¿Cómo se explica esto?

Radiobiología

Esquema	Tumor $\alpha\beta=5$	Tumor α / corrección de t	Tejido Sano $\alpha\beta=3$
5x5 Gy	35,7 Gy	35,7 Gy	40Gy
25x2 Gy	50Gy	50-15,6 =34,4 Gy	50Gy

25 Gy en 5 fx es un poco menos dosis en tejido sano que 50 Gy en 25 fx

$$EQD2 (\alpha\beta) = (d+\alpha\beta) / (2+\alpha\beta)$$

$$\text{Time correction: } EQD2 (\alpha\beta) - (OTT\text{-delay}) D_{\text{prolif}}$$

$$\text{Repair rate} = D_{\text{prolif}} = 0,6\text{Gy/day}$$

Proliferation delay: 7 days

Datos de Clínica IRAM, Santiago, Chile

Revisión retrospectiva de 58 pacientes operados luego de RT 25 Gy en 5 fx y 4 ciclos de FOLFOX (2 meses)

total pac 58	n	%
NO	8	13,8
N1	32	55,1
N2	11	18,9
N positivo no clasificado	7	12,1
N +	50	86,2

**45 pacientes T3-4
(77,5%)**

Gabler, Datos No Publicados

Datos de Clínica IRAM, Santiago, Chile

**22,4 % de respuesta
patológica completa**

total pac 58	n	%
pT 0	13	22,4
pT 1	5	8,6
pT2	15	25,9
pT3	22	37,9
pT 4	2	3,4
pT no evaluado	1	1,7

Gabler, Datos No Publicados

Datos de Clínica IRAM, Santiago, Chile

**65,5 % de downstage
(de etapa III a menor)**

total pac 58	n	%
pN0	42	72,4
pN1	10	17,2
pN2	2	3,4
pN no evaluado	4	6,9
pN+	12	20,7

IRAM vs Sauer

Table 3. Postoperative Pathological Tumor Stage, Type of Surgery, and Completeness of Resection, According to Actual Treatment Given.^a

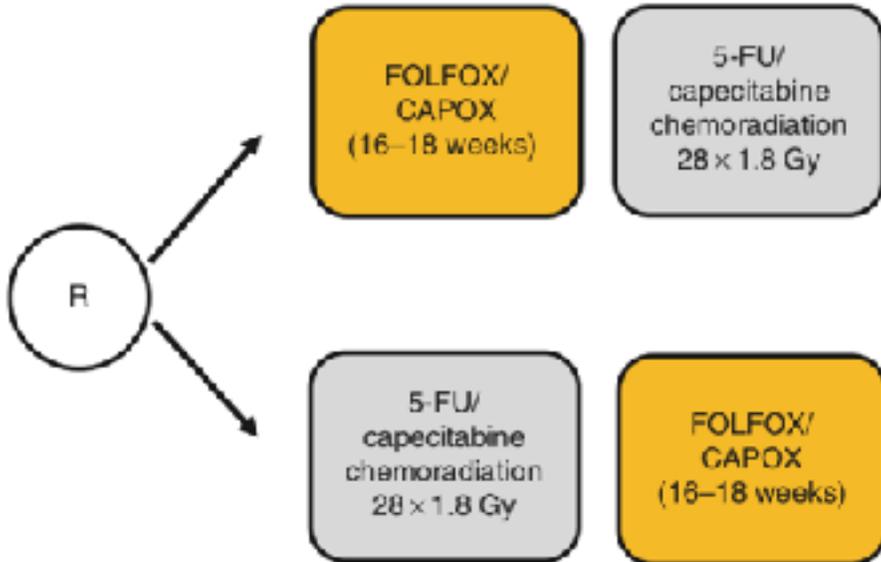
Variable	Preoperative Chemoradiotherapy (N=415)	Postoperative Chemoradiotherapy (N=384)	P Value
Histopathological finding (%)			<0.001
Complete response	8	0	
TNM stage			
I	25	18	
II	29	29	
III	25	40	

Sauer, NEJM 2004

	IRAM	Sauer
pCR	22,4 %	8 %
Downstage (III a menor)	65,5 %	15 %

Gabler, Datos No Publicados

Otras estrategias de TNT



Radioterapia corta (1 semana) y luego Oxaliplatino es una mejor estrategia de TNT:

1. Alargar el tratamiento local en 4 semanas no mejorará los resultados oncológicos
2. Comenzar con RT evita la probabilidad de que el tumor progrese durante QT
3. Comenzar con RT produce rápido alivio de los síntomas
4. Evita retraso en entrega de QT efectiva lo que podría reducir la progresión sistémica

¿Las guías clínicas apoyan el uso de RT corta + FOLFOX?



Annals of Oncology 28 (Supplement 4): iv22-iv40, 2017
doi:10.1093/annonc/mdx224

CLINICAL PRACTICE GUIDELINES

Clinical Practice Guidelines

Annals of Oncology

Table 6. Recommended choice of treatment options within TNM risk category of primary rectal cancer without distant metastases

Advanced (Ugly)	cT3 with any MRF involved, any cT4a/b, lateral node+	Preoperative CRT followed by surgery (TME and more extended surgery if needed due to tumour overgrowth), or preoperative SCPRT (5×5Gy) plus FOLFOX and delay to surgery	Alternatively, 5×5 Gy alone with a delay to surgery in fragile/elderly or in patients with severe comorbidity who cannot tolerate CRT
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¿Las guías clínicas apoyan el uso de RT corta + FOLFOX?

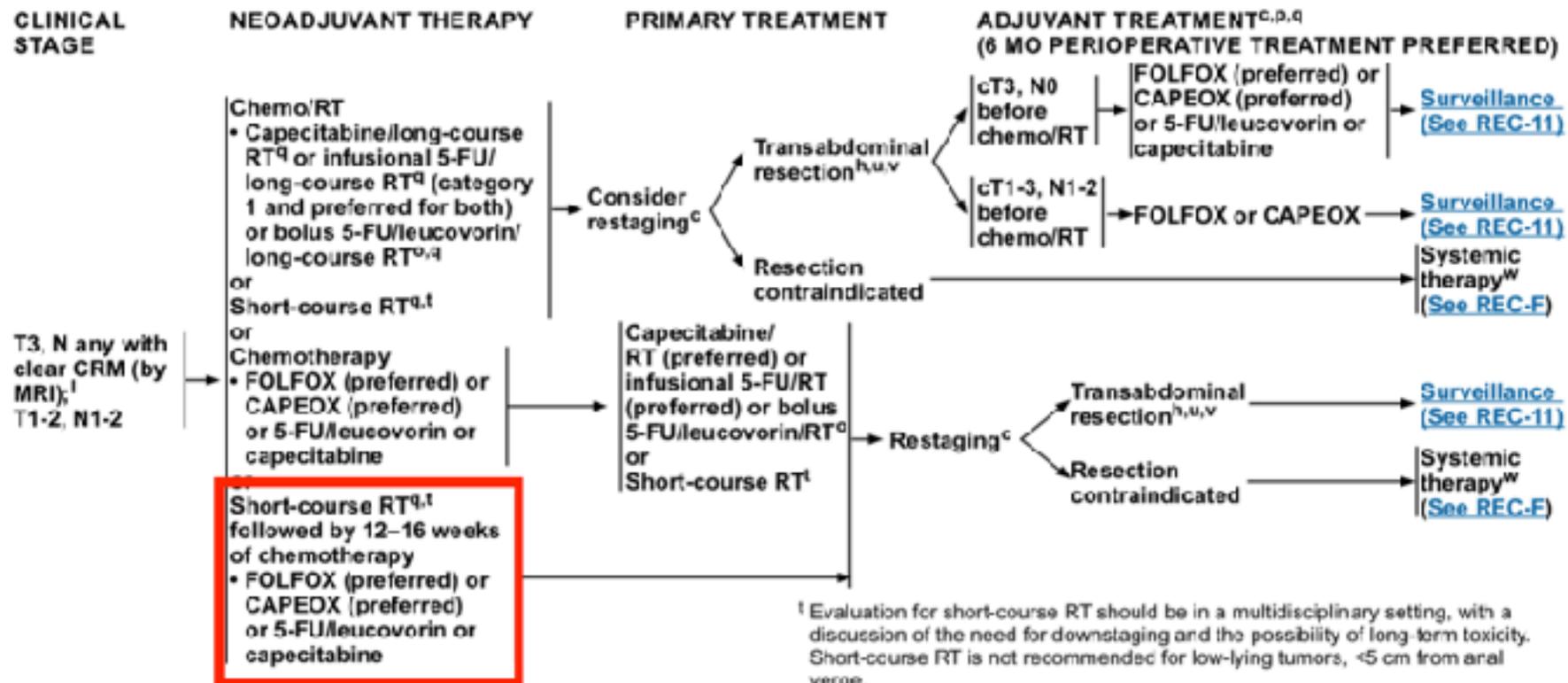
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NCCN Guidelines Version 2.2019 Rectal Cancer

[NCCN Guidelines Index](#)
[Table of Contents](#)
[Discussion](#)



[†] Evaluation for short-course RT should be in a multidisciplinary setting, with a discussion of the need for downstaging and the possibility of long-term toxicity. Short-course RT is not recommended for low-lying tumors, <5 cm from anal verge.
^w If patient treated with short-course RT, surgery should be within 1 week or

Nuevo estándar

Invited Commentary

Total Neoadjuvant Therapy for Locally Advanced Rectal Cancer— The New Standard of Care?

Theodore S. Hong, MD; David P. Ryan, MD

In summary, TNT can be considered standard of care for select patients with high-risk, locally advanced disease. Further studies are needed to help patients balance the benefits of sphincter preservation vs toxic effects of overtreatment in lower-risk disease.

Hong, JAMA Oncol 2018

Mensajes para la casa

- Es necesario mejorar los resultados en cáncer de recto localmente avanzado
- Para hacer esto debemos enfocarnos en disminuir el riesgo de recurrencia a distancia (30% Sauer, JCO 2012)
- Adelantar la QT útil (Oxaliplatino) a la neoadyuvancia es la mejor forma de lograr de disminuir la recurrencia a distancia (TNT)

Mensajes para la casa

- TNT con RT corta (1 semana) y oxaliplatino acorta el tiempo total de tratamiento, esto es **IMPORTANTE** para **TODOS** pacientes
- TNT con RT corta (1 semana) y oxaliplatino produce mayor pCR y cCR (STELLAR), esto puede ser **MUY IMPORTANTE** para **ALGUNOS** pacientes (tumor de recto bajo, pacientes con co-morbididades)
- TNT con RT corta (1 semana) y oxaliplatino tiene menor toxicidad aguda y al menos equivalente outcome oncológico (POLACO II), esto es **MUY IMPORTANTE** para **TODOS** pacientes

Para mayor lectura

Rev Chil Cir. 2017;69(2):181-183



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www.elsevier.es/rchic



ARTÍCULO DE REVISIÓN

**Nueva estrategia terapéutica en cáncer de recto
localmente avanzado**



Sebastián Solé Z., Francisco Larsen E. * y Claudio Solé P.

Solé, Rev Chil Cir 2017

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