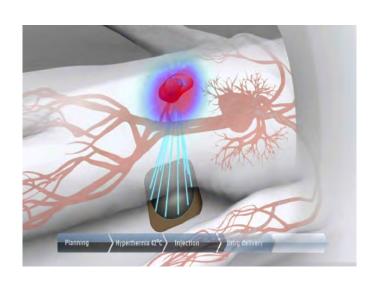
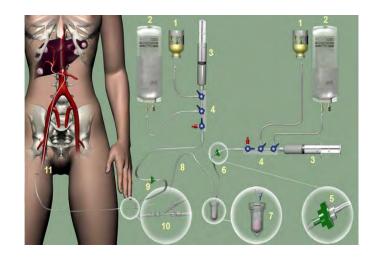
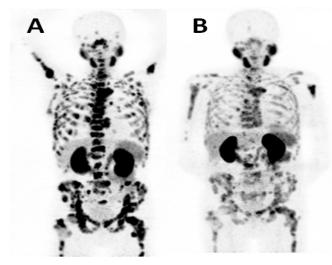
Abundance of technical innovations in oncology

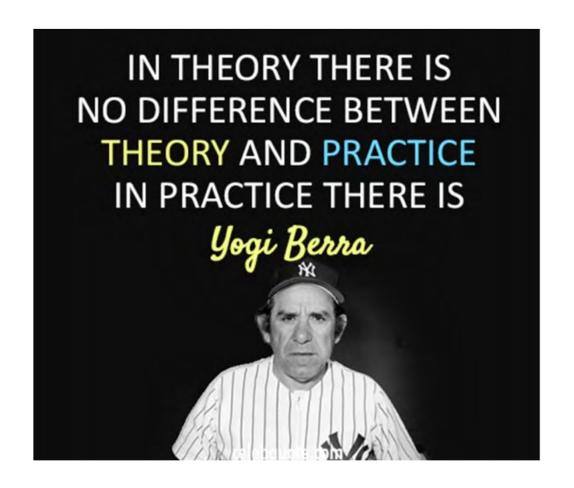








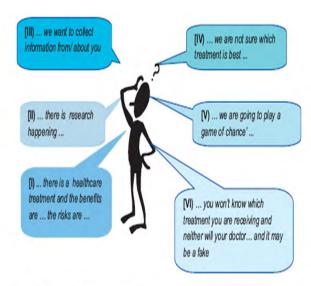


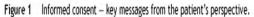




Classic RCTs are challenging











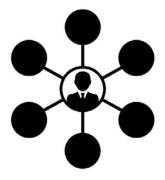


Classic RCTs in Intervention Oncology face additional challenges







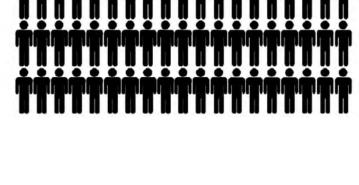




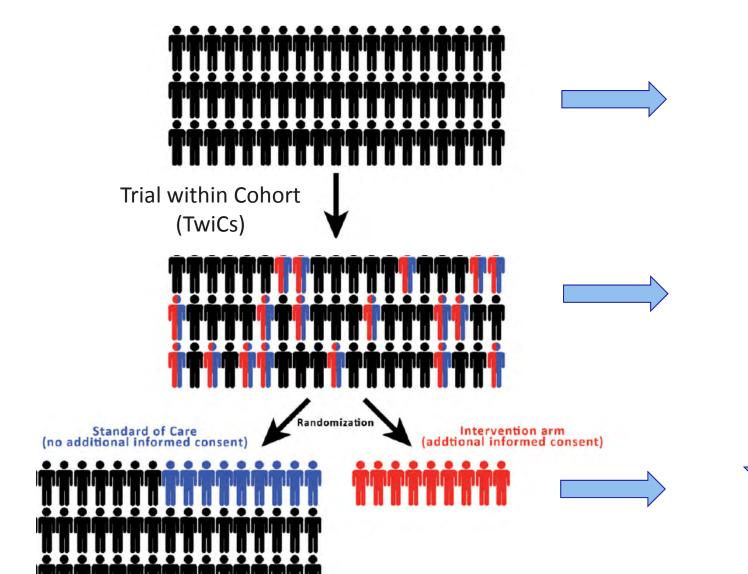


Regular outcome measurement







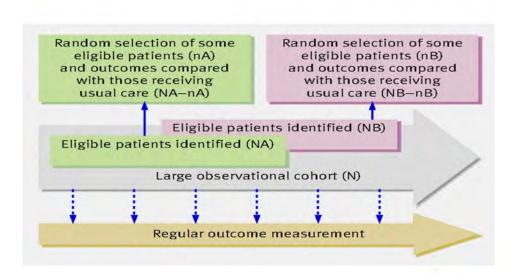


Regurlar outcome measurement



Potential) advantages of TwiCs

- Patient-centred informed consent
 - improved recruitment rates
 - more representative sample
- Prevention of disappointment / contamination
- Facility for multiple RCTs:
 Increased comparability



IRB UMC Utrecht / CCMO

"Inform patients clearly of what it means to be allocated to a TwiCs control arm."

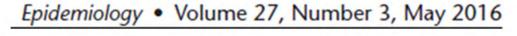
- Serving as control without knowing it
- Being (temporarily) ineligible for other TwiCs / intervention studies (without knowing it)



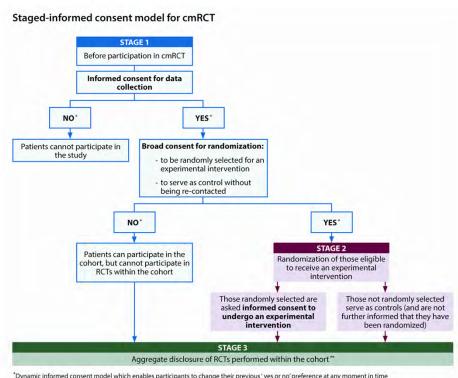


Staged-informed Consent in the Cohort Multiple Randomized Controlled Trial Design

Danny A. Young-Afat, a,b Helena A. M. Verkooijen, Carla H. van Gils, Joanne M. van der Velden, b Johannes P. Burbach, b Sjoerd G. Elias, Jonannes J. van Delden, d Clare Relton, Marco van Vulpen, b and Rieke van der Graafd





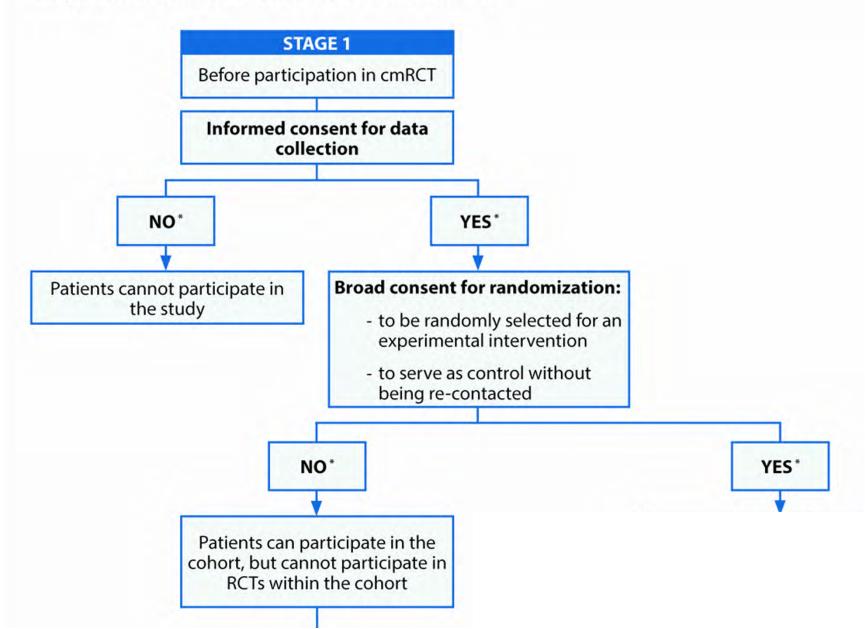


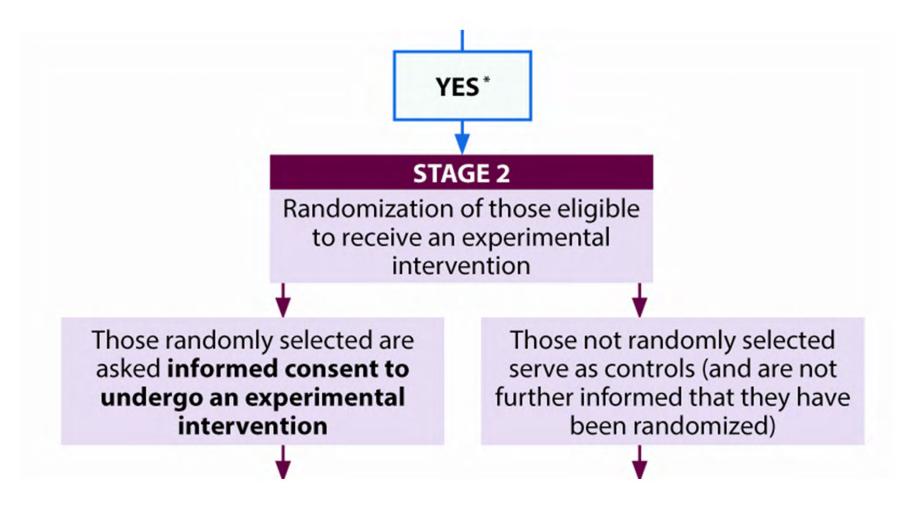
^{*}Dynamic informed consent model which enables participants to change their previous 'yes or no' preference at any moment in time



[&]quot;Only provided to those who opted-in for aggregrate disclosure (asked in stage 1).

Staged-informed consent model for cmRCT







STAGE 3

Aggregate disclosure of RCTs performed within the cohort**

*Dynamic informed consent model which enables participants to change their previous 'yes or no' preference at any moment in time

**Only provided to those who opted-in for aggregrate disclosure (asked in stage 1).



Learn from every patient

The Innovation Clinic



Informed consent

Re-use of clinical data

Biobanking

Patient reported outcomes

Profiles

Extra scans

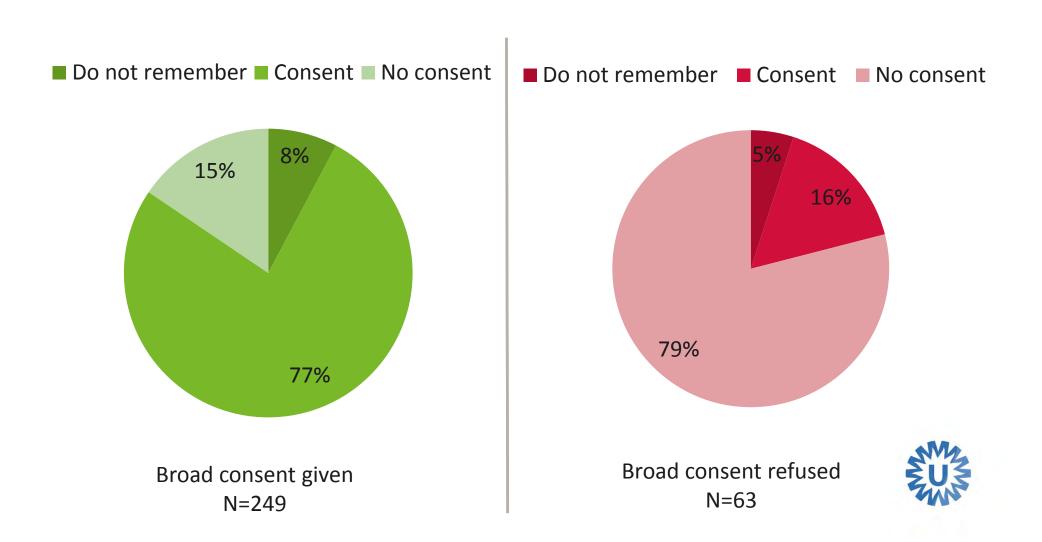
Broad consent for randomization



Our TwiCs infrastructure

Cohort	Site	n	Broad consent for randomization
UMBRELLA	Breast	3150	84%
PLCRC-Urect	Rectal	825	84%
PLCRC	Colorectal	7415	
PRESENT	Bone metastases	1760	82%
OLYMPOS	Lymph nodes	100+	79%
COIMBRA	Brain metastases	75+ 69% (75% of patients alive)	
UPC	Prostate	15+	
U-Color	Lung	Approved	

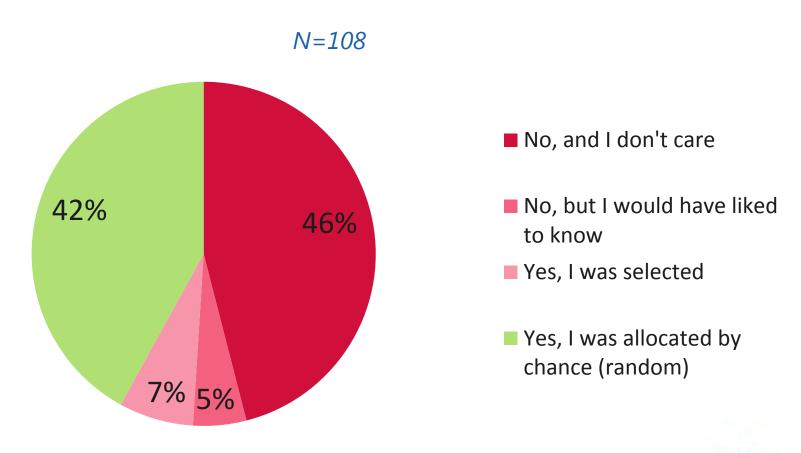
'Did you give broad consent for future randomization?'



Trials within Cohorts

Cohort	Site	Randomized trials	Status
UMBRELLA	Breast	Exercise program	Completed 260/260
		• Hyperbaric O ₂	Recruiting: 39/120
PLCRC	Colorectal	 ctDNA guided adjuvant chemotherapy 	IRB submission Jan 2020
PLCRC-Urect	Rectal	Dose escalation	Completed: 128/128
		• Sponge	Recruiting: 81/188
PRESENT	Bone mets	Stereotactic radiotherapy	Completed: 110/110
UPC	Prostate	Nerve sparing RT	

'Do you understand how you have been selected for the experimental intervention?'





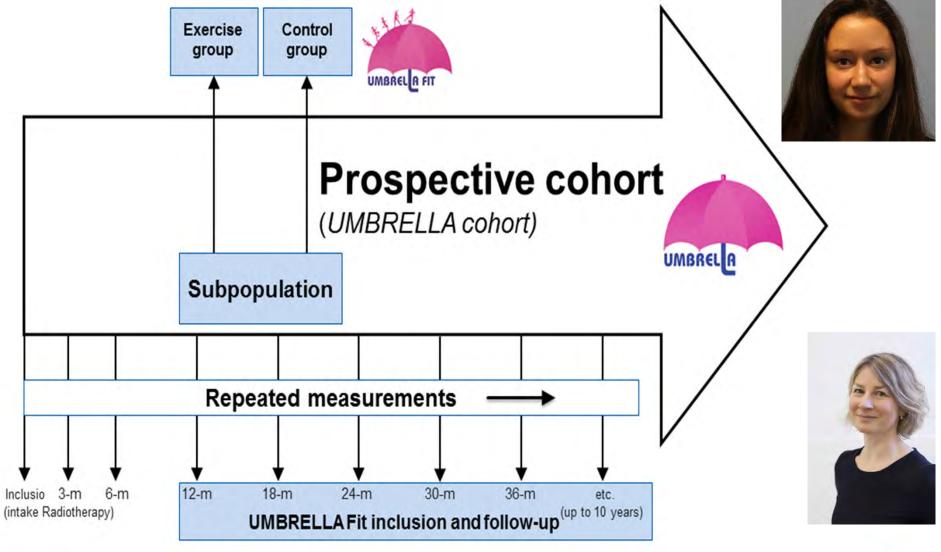
3 TwiCs completed

Curative intervention: Radiotherapy dose-escalation

Palliative intervention: Stereotactic radiotherapy

Lifestyle intervention: Exercise program



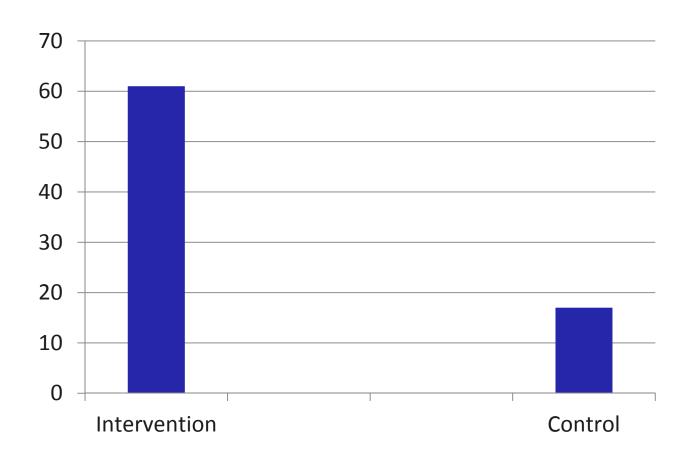






Change in physical activity level Between baseline to 6-months follow-up

(minutes per week)

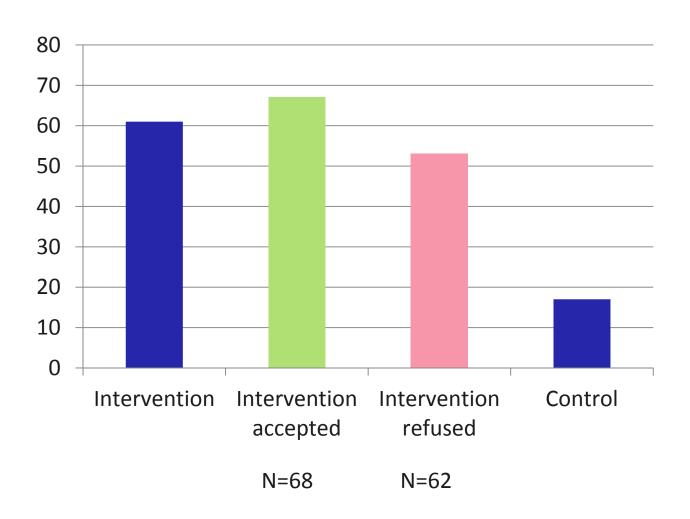






Change in physical activity level Between baseline to 6-months follow-up

(minutes per week)

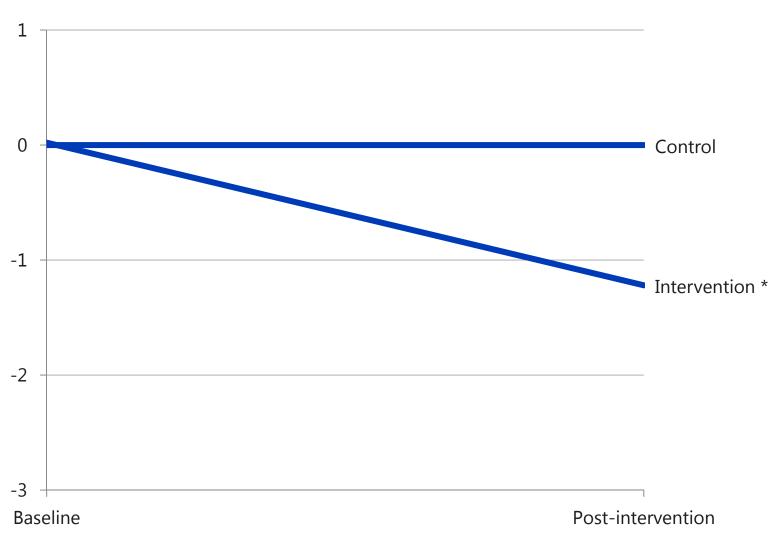






Difference in change in physical fatigue (ITT)

Lower score indicates less fatigue problems

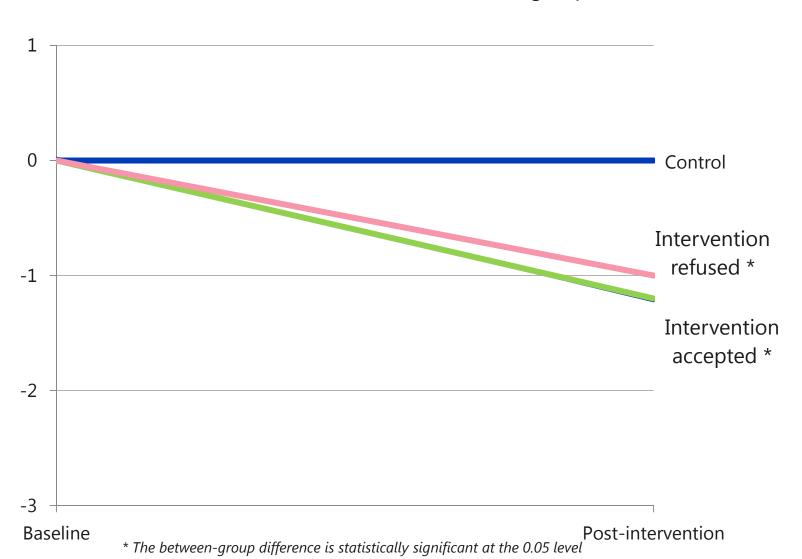




^{*} The between-group difference is statistically significant at the 0.05 level

Difference in change in physical fatigue (ITT)

Lower score indicates less fatigue problems





TwiCs in clinical oncology: Which advantages have been confirmed?

- Patient-centred informed consent
 - improved recruitment rates



more representative sample

• Prevention of contamination

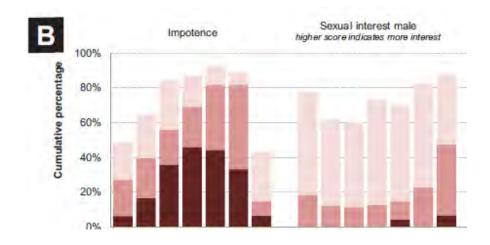


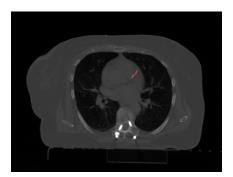


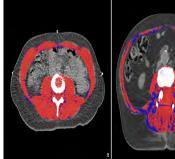
TwiCs in clinical oncology: What have we learnt?

- Staged informed consent is acceptable to patients and IRB's
- Non-acceptance and non-compliance depend on intervention
- Be realistic (and not optimistic) about refusal of offered intervention





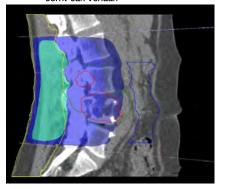


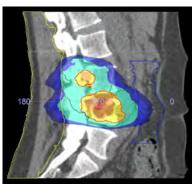




Stereotactic Radiotherapy Followed by Surgical Stabilization Within 24 h for Unstable Spinal Metastases; A Stage I/IIa Study According to the IDEAL Framework

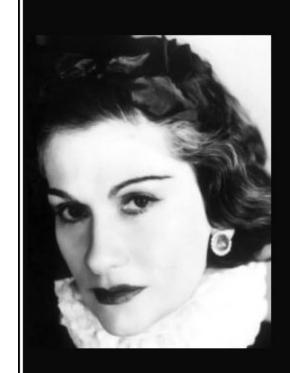
Anne L. Versteeg¹, Joanne M. van der Velden², Jochem Hes², Wietse Eppinga², Nicolien Kasperts², Helena M. Verkooijen², F. C. Oner¹, Enrica Seravalli² and Jorrit-Jan Verlaan¹*











Innovation! One cannot be forever innovating. I want to create classics.

(Coco Chanel)

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