



Trial design in older adults: European perspective

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Disclosure slide

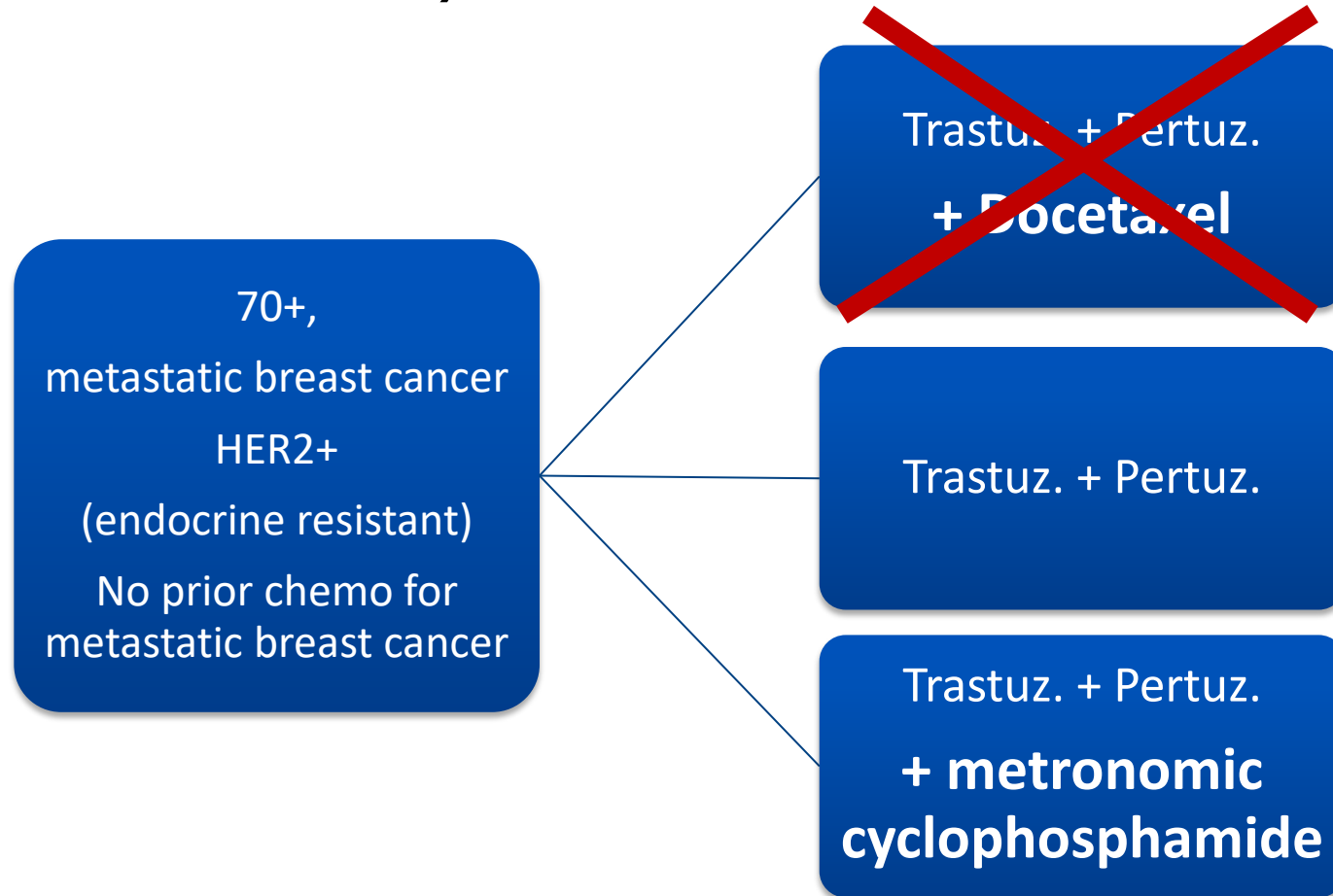
- **Institutional conflict:**
 - Consulting fees and honoraria to my institute from Abbvie, Amgen, Ariez International, AstraZeneca, Biocartes, DNA Prime, Lilly, Novartis, ORION corporation, Pfizer, PUMA Biotechnology, Roche, Sirtex, TRM Oncology, Vifor Pharma, Daiichi Sankyo.
 - Unrestricted research grant to my institute from Roche.
- **Travel support** from Roche and Pfizer.

End Points and Trial Design in Geriatric Oncology Research: A Joint European Organisation for Research and Treatment of Cancer–Alliance for Clinical Trials in Oncology–International Society of Geriatric Oncology Position Article

Hans Wildiers, Murielle Mauer, Athanasios Pallis, Arti Hurria, Supriya G. Mohile, Andrea Luciani, Giuseppe Curigliano, Martine Extermann, Stuart M. Lichtman, Karla Ballman, Harvey Jay Cohen, Hyman Muss, and Ulrich Wedding

HER2+ metastatic breast cancer

EORTC 75111; HER2+ MBC 1st line therapy



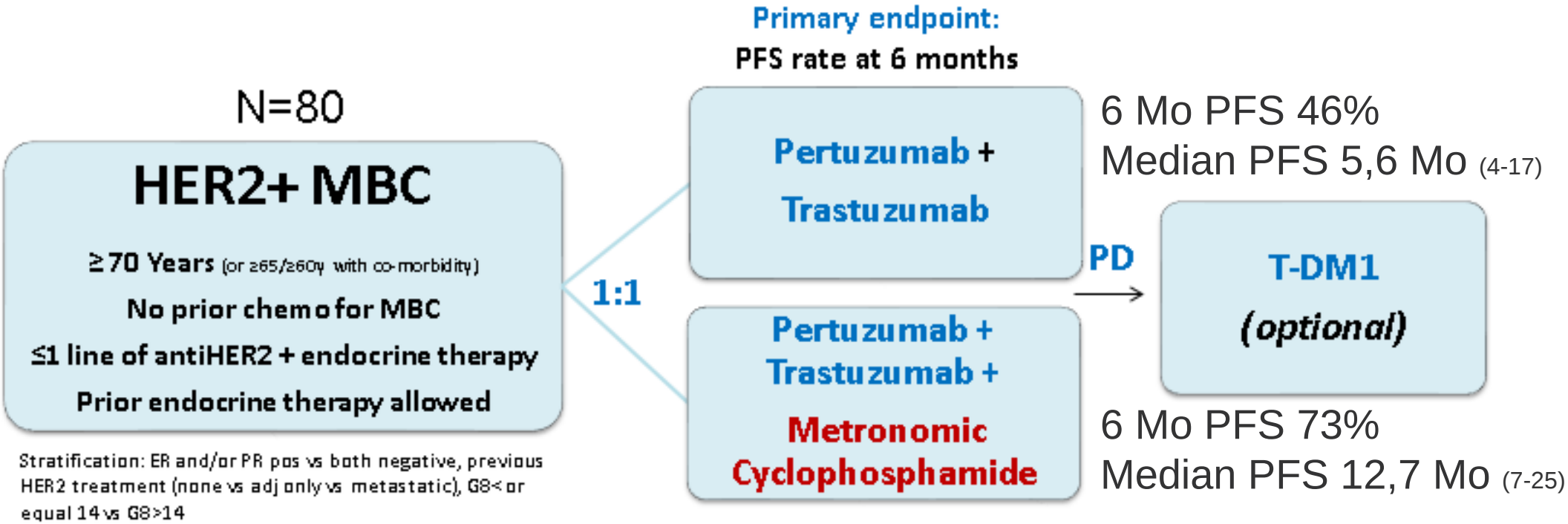
- **Standard arm?**

Catch 22, docetaxel arm
would exclude frail
patients

- **Primary endpoint?**

PFS at 6 months
(little difference expected
for QoL)

HER2+ metastatic breast cancer



Metronomic CT (chemotherapy):
cyclophosphamide 50 mg/d po
continuously

On progression: Option to have T-DM1
(3.6 mg/kg iv q3w) till progression

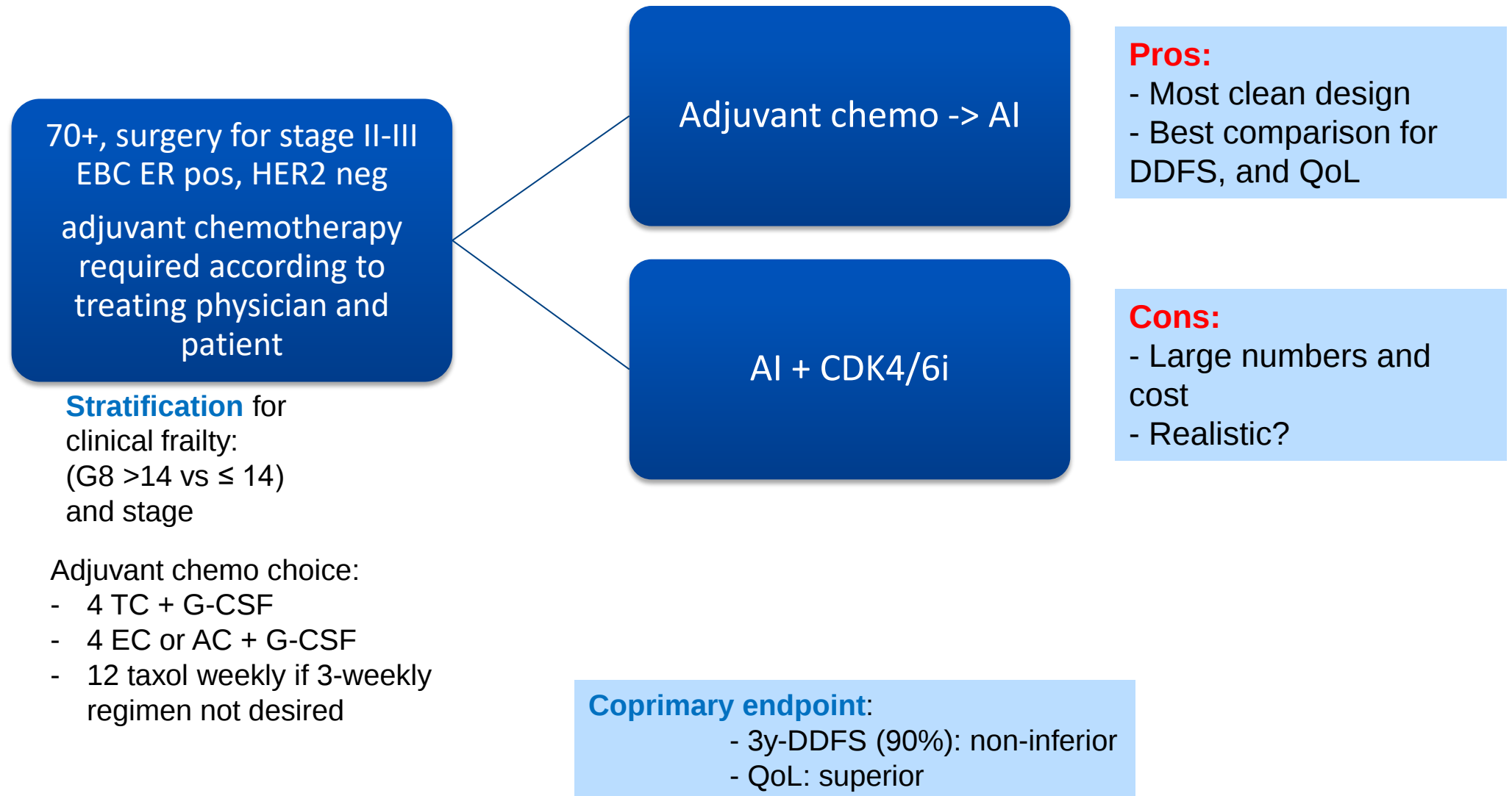
Pertuzumab and trastuzumab with or without metronomic chemotherapy for older patients with HER2-positive metastatic breast cancer (EORTC 75111-10114):
an open-label, randomised, phase 2 trial from the Elderly Task Force/Breast Cancer Group Lancet oncol 2018

Hans Wildiers, Konstantinos Tryfonidis, Lissandra Dal Lago, Peter Vuylsteke, Giuseppe Curigliano, Simon Waters, Barbara Brouwers, Sevilay Altintas, Nathan Tzouati, Fatima Cardoso, Etienne Brain

	N (%)
Age (years) – Median (Range)	77 (61 - 91)
WHO PS 2-3	19 (23.8)
ER and/or PgR positive	55 (68.8)
No prior anti-HER2 therapy for MBC	72 (91.1)
Prior adjuvant endocrine therapy	24 (30.4)
Visceral involvement	74 (93.3)
G8 score at baseline G8 ≤ 14	56 (70.9)
Frail (SPPB ≤ 7)	37 (52.9)

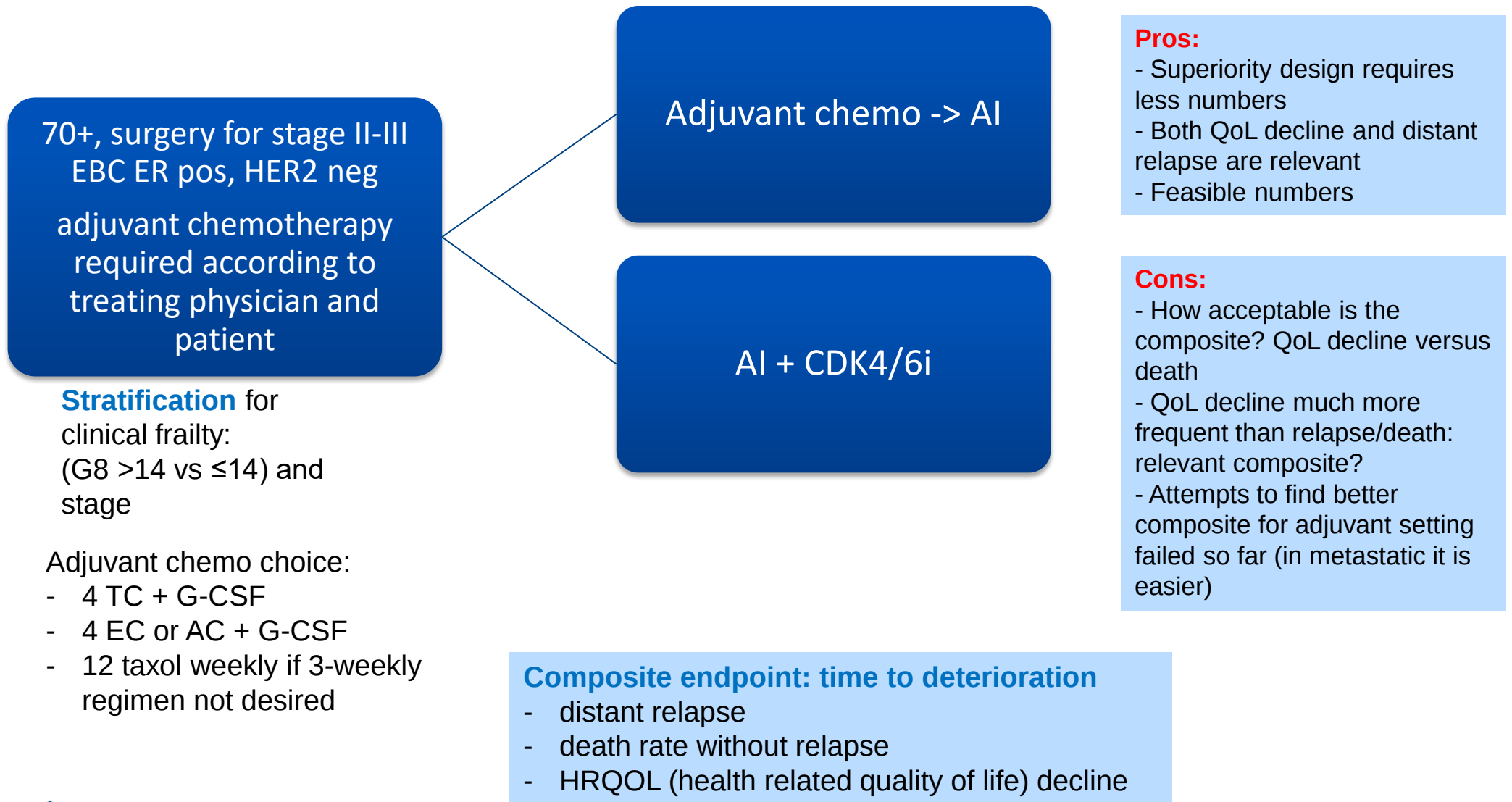
Adjuvant CDK4/6i in Luminal breast cancer

1. Randomized phase III ; non-inferiority



Adjuvant CDK4/6i in Luminal breast cancer

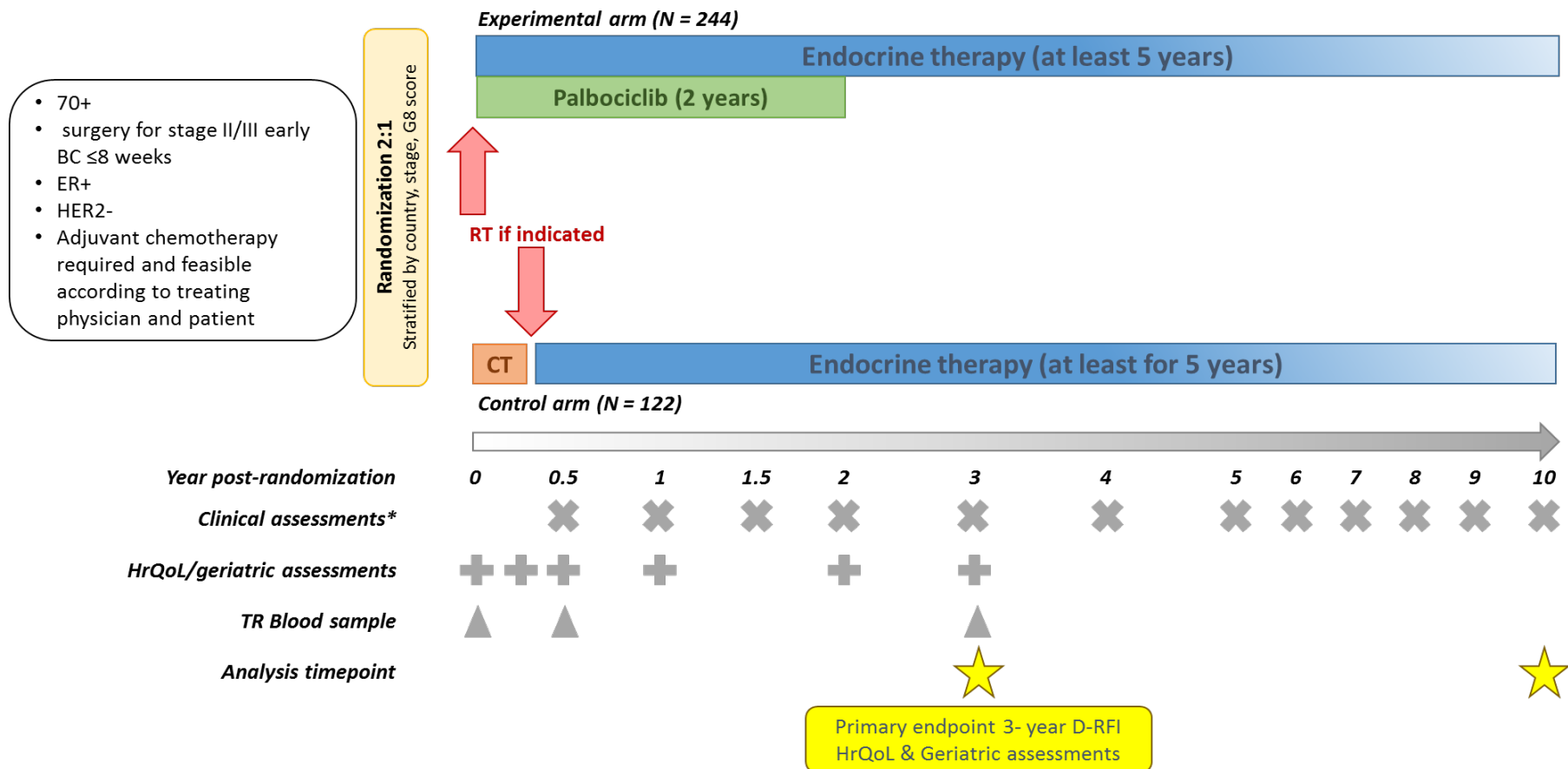
2. Randomized phase III ; superiority



Adjuvant CDK4/6i in Luminal breast cancer

3. Randomized (2:1) non-comparative phase II study

EORTC-ETF-BCG STUDY 1745 (APPALACHES): A PHASE II STUDY OF ADJUVANT PALBOCICLIB AS AN ALTERNATIVE TO CHEMOTHERAPY IN ELDERLY PATIENTS WITH HIGH-RISK ER+/HER2- EARLY BREAST CANCER



• Defined based on randomization date regardless of treatment administration, delays or interruptions.

BC = Breast cancer; CT = chemotherapy; D-RFI = Distant Relapse Free Interval; HrQoL = Health-related Quality of Life; RT = radiotherapy; TR = Translational Research

Metastatic colorectal cancer: **FOCUS2**

80% FU

80% OxFU

1. Does the addition of oxaliplatin improve PFS? NO

80% Cap

80% OxCap

2. Does oral capecitabine improve QoL compared with IV 5FU? NO

Chemotherapy options in elderly and frail patients with metastatic colorectal cancer (MRC FOCUS2): an open-label, randomised factorial trial



Matthew T Seymour, Lindsay C Thompson, Harpreet S Wasan, Gary Middleton, Alison E Brewster, Stephen F Shepherd, M Sinead O'Mahony, Timothy S Maughan, Mahesh Parmar, Ruth E Langley, on behalf of the FOCUS2 Investigators and the National Cancer Research Institute Colorectal Cancer Clinical Studies Group*

Lancet 2011, 377:1749-59

Metastatic colorectal cancer: FOCUS2

Overall Treatment Utility (OTU)



patient's view:

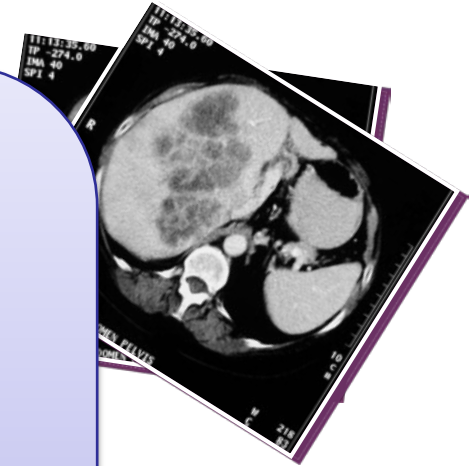
did it have an

OTU at 3 months

=

With the benefit of hindsight:

- am I (the patient) glad I decided to have the treatment?
- am I (the doctor) glad I decided to give the treatment?



benefit?

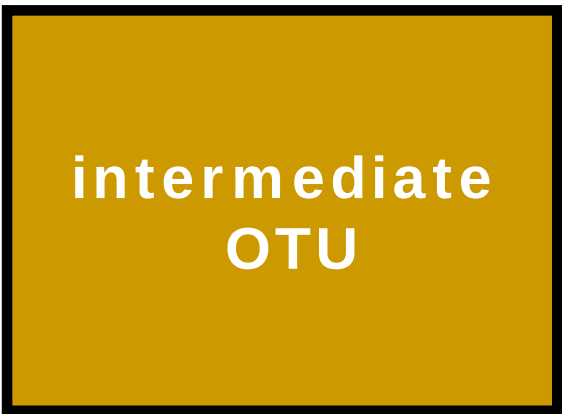
toxicity?



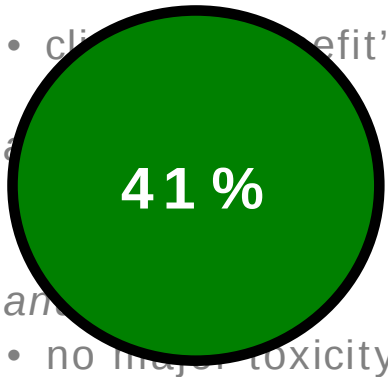
Good example of **composite endpoint**

Metastatic colorectal cancer: FOCUS2

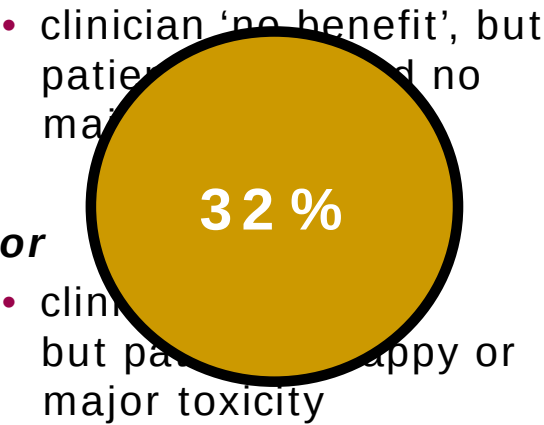
after 12 weeks:



all of:

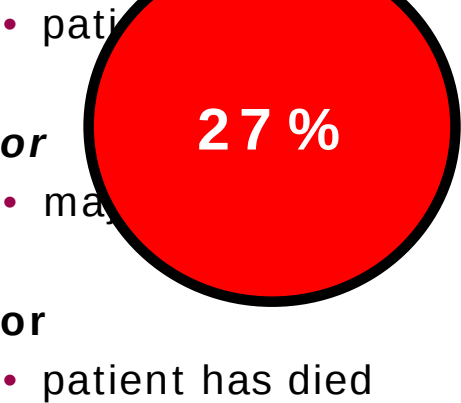


either



- clinician 'no benefit'

and either



Anticancer drugs are NOT well tolerated in all older patients with cancer

Hans Wildiers, Nienke A de Glas

Lancet Healthy Longev 2020;
1: e43–47

Panel: Reports on new anticancer drugs lack evaluation of frailty

- Many scientific publications conclude that new anticancer drugs are well tolerated by and feasible for older patients (aged 70 years or older) with cancer
- Most reports do not recognise that the older population enrolled in trials does not reflect the general older population, in which frailty is a common issue
- Incorporating measurements of frailty in clinical trials is important because these individuals have an increased risk of worse outcomes
- Tolerance of new anticancer agents should be evaluated in older frail patients before concluding that the treatment is well tolerated in all older patients