

European Organisation For Research and Treatment of Cancer (EORTC)





What is the EORTC?

European Organisation for Research and Treatment of Cancer

- Non-profit cancer research organisation founded in 1962
- Core activities: design and conduct of cancer clinical trials

Multi-national
Pan-European network

Multi-disease

Brain, breast, leukemia, ovarian, sarcoma,...

Multi-disciplinary

Surgery, radiotherapy, medical oncology, translational research

Academic independence

External peer review process / approval of study protocols, clinical database control by academia, IDMC, analysis of primary endpoints, publication of primary analysis, controlled access to biological material.



EORTC

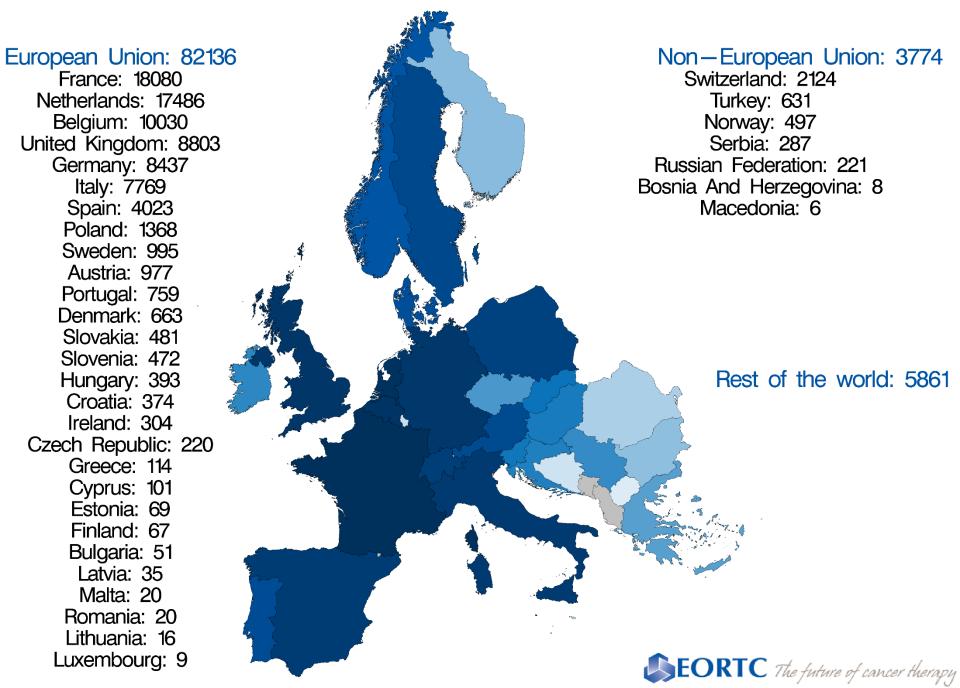
- International: Conducting clinical research across Europe and rest of the World.
- Multidisciplinary: Spanning all aspects of cancer management, from imaging and radiology to surgery and therapeutic innovations, working with a network of over 5.500 multidisciplinary oncology experts.
- Multi-tumour: Researching in all types of cancers, leaving no-one behind.
- Independent: Research is done with unwavering independence and accountability, making all results public.
- Compliant with regulation Our experts ensure our activities meet the strictest quality and reliability requirements, everywhere we are active.



EORTC by the numbers (2017)

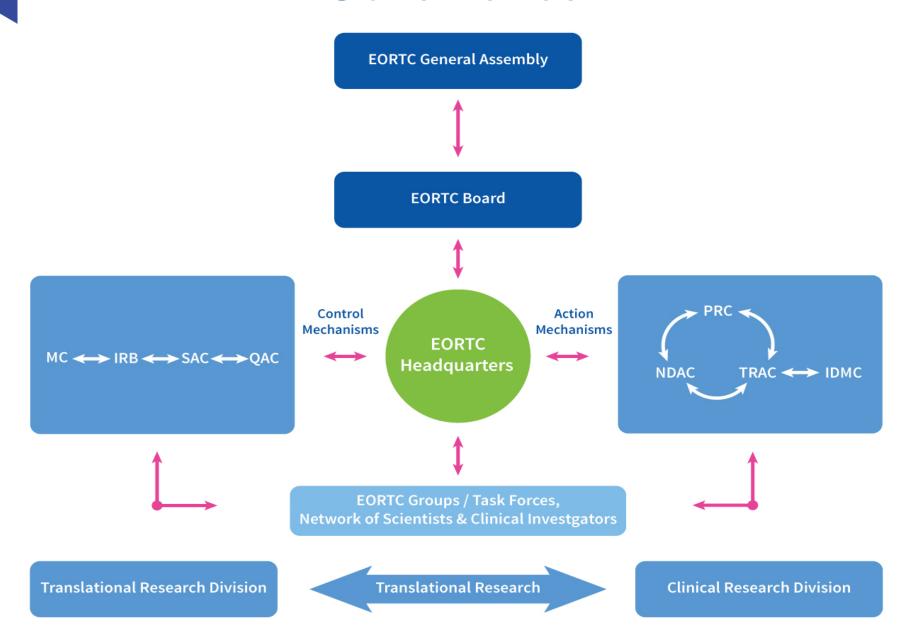
A world-class network	An expert HQ	Unique output
• > 5,500 collaborators	• 214 employees	• 15 new studies open to
• 930 institutions	 > 198,000 patients in 	patient
 27 countries 	database	 53 ongoing studies
	• > 25,000 patients in	• 25 studies in protocol
 20 groups & task-forces 	follow-up	outline development
• 120 collaborative		• 19 studies in protocol
groups		development
		 9 studies in regulatory activation
		 Working on ≈ 203 studies

Accrual of screened patients in EORTC clinical studies from 2000 to 2017: 91771 patients





Governance





EORTC Clinical Research Division

- Tumor specific groups
 - Brain Tumor
 - Breast Cancer
 - Lung Cancer
 - Leukemia
 - Lymphoma
 - Endocrine Tumors
- Other clinical groups
 - Infectious Diseases
 - Quality of Life
 - Radiation Oncology

- Melanoma
- Soft Tissue and Bone Sarcoma
- Gastro-Intestinal Tract Cancer
- Genito-Urinary Cancers
- Gynecological Cancer
- Head and Neck Cancer
- Task Forces
 - Elderly
 - Cutaneous Lymphoma



EORTC Translational Research Division

- Pharmacology and Molecular Mechanisms
- Pathobiology
- Imaging



Activities

- Clinical trial
- Infrastructure building: genomic testing, surgery and radiotherapy initiatives, late follow-up (survivorship)
- Development of QOL questionnaires
- Guidance, criteria. For example:
 - RECIST (Response Criteria in Solid Tumors)
 - RTQA
- Participation in the development of the oncology community
- Collaboration with regulators, payers, oncology academia, patients ...
- Education, teaching
 - Many courses, Early Career Investigator program



Environment is evolving *faster* than ever before

- Precision oncology and immunotherapy are here to stay and more is on the way
- New clinical research models and trial designs are emerging
- New clinical research infrastructures are needed as the forms and the methods of clinical research are evolving
- Clinical research landscape is changing
 - Complex and multidisciplinary datasets/data integration
 - Regulatory challenges are moving targets: upcoming regulations
 - Traditional partners have different expectations (industry..)
 - New partners have new demands (HTA...)



The changing clinical research pathway

From trials "designed to learn" to real life situation

Early clinical trials (R&D)

- Biology / imaging driven
- Integrated TR
- Screening platforms
- Collection of high quality data from various sources

Pivotal trials

- Highly targeted
- Large differences

Population-based studies

- Real world data
- Quality of life
- Health economics
- HTA
- Pragmatic trials



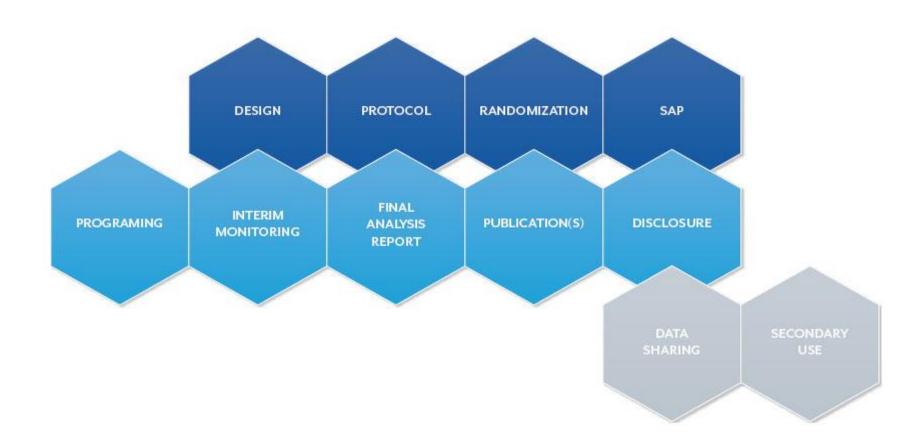
Partnerships made possible





Main roles and functions

To ensure appropriate up-to-date methodology use in every study or research conducted under the EORTC flag



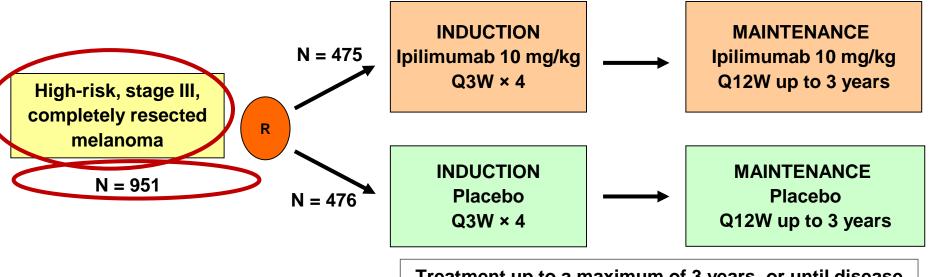


The future of cancer therapy

Adjuvant ipilimumab versus placebo after complete resection of high-risk stage III melanoma (EORTC 18071):

a randomised, double-blind phase 3 trial.

Eggermont et al, Lancet Oncol. 2015



Treatment up to a maximum of 3 years, or until disease progression, intolerable toxicity, or withdrawal

1 end-point:

Recurrence Free Survival,

assessed by IRC

Designed to detect HR=0.75 with 90% power, corresponding to an increase from 58.3% to 66% in 1-year and from 35.4% to 45.9% in 3-year recurrence-free survival



Adjuvant ipilimumab versus placebo after complete resection of high-risk stage III melanoma (EORTC 18071): a randomised, double-blind, phase 3 trial.

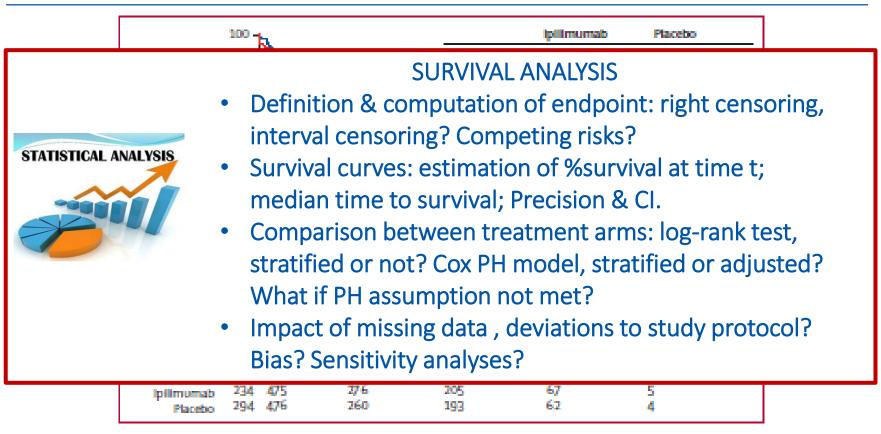
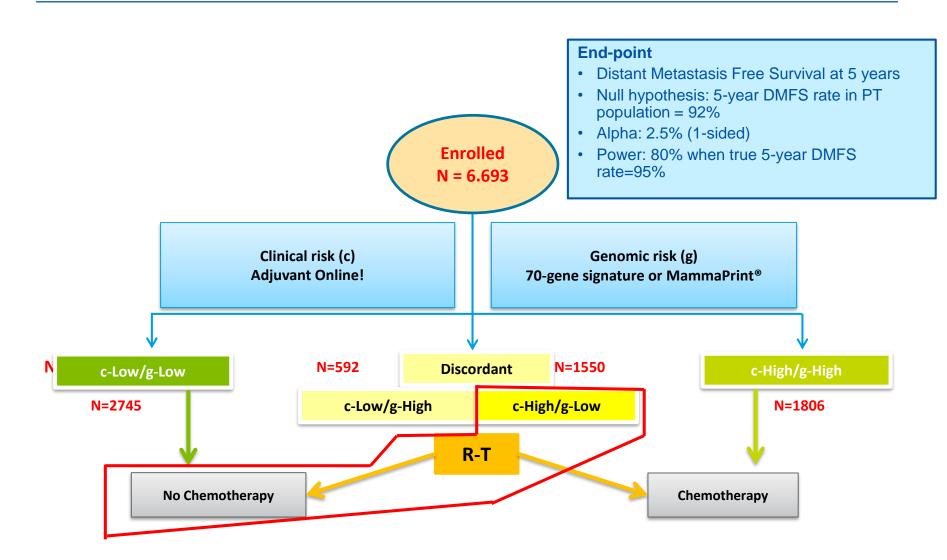


Figure 2- Kaplan-Meier curves of recurrence-free survival, as assessed by IRC

Interpretation Adjuvant ipilimumab significantly improved recurrence-free survival for patients with completely resected high-risk stage III melanoma. The adverse event profile was consistent with that observed in advanced melanoma, but at higher incidences in particular for endocrinopathies. The risk-benefit ratio of adjuvant ipilimumab at this dose and schedule requires additional assessment based on distant metastasis-free survival and overall survival endpoints to define its definitive value.



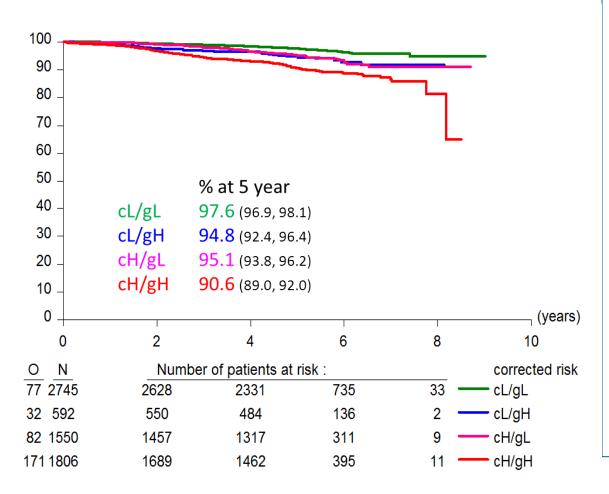
70-Gene Signature as an Aid to Treatment Decisions in Early-Stage Breast Cancer, Mindact study Cardoso et al, NEJM 2016





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Distant Metastasis Free Survival



CONCLUSIONS

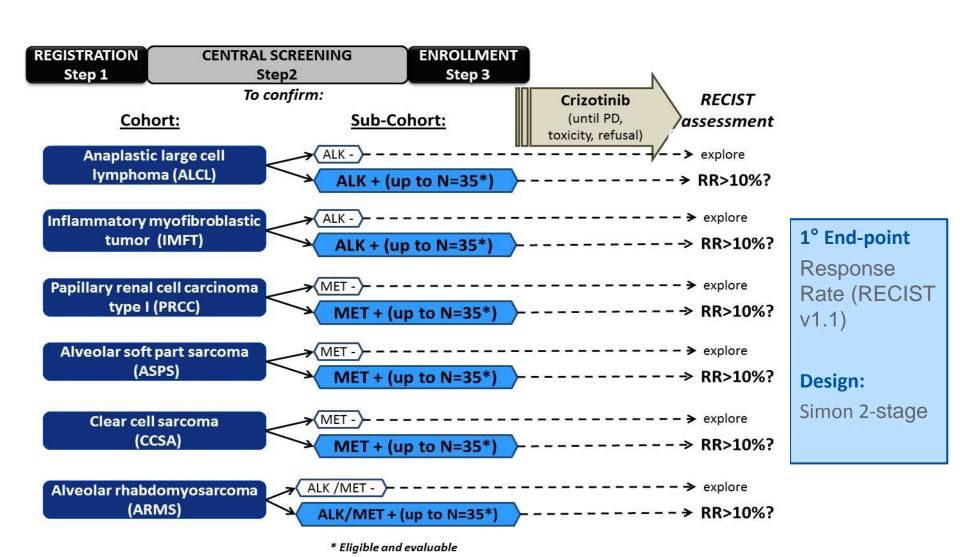
Among women with early-stage breast cancer who were at high clinical risk and low genomic risk for recurrence, the receipt of no chemotherapy on the basis of the 70-gene signature led to a 5-year rate of survival without distant metastasis that was 1.5 percentage points lower than the rate with chemotherapy.

Given these findings, approximately 46% of women with breast cancer who are at high clinical risk might not require chemotherapy.



Cross-tumoral phase 2 clinical trial exploring Crizotinib in patients with advanced tumors induced by causal alterations of ALK and/or MET

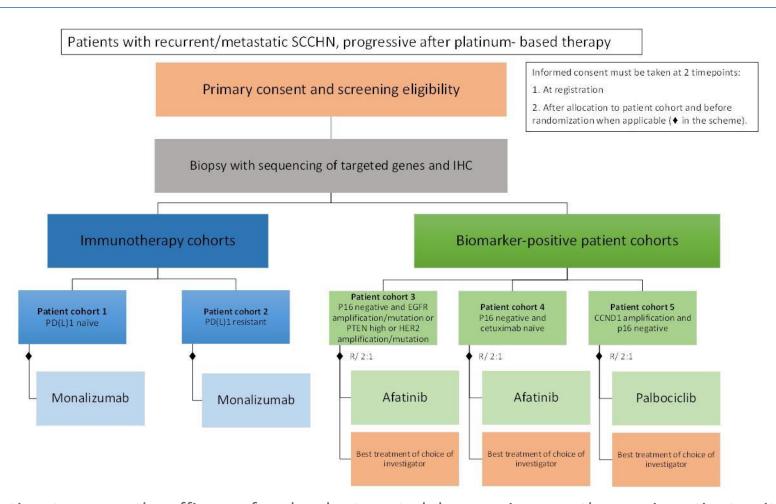
Study coordinator: P. Schöffski





A pilot study of personalized treatment in patients with recurrent/metastatic squamous cell carcinoma of the head and neck

Study Coordinator: J.P. Machiels



1° objective: to assess the efficacy of molecular targeted drugs or immunotherapy in patients with non-curable recurrent/metastatic SCCHN harboring pre-defined biomarkers



EORTC HQ Staff 2016





CONFERENCES AND COURSES

- 30th EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics, Dublin, Ireland, 13-18 November 2018
 - Chairs: Charlie Swanton, Antoni Ribas, James Gulley
- IBCD 2018: Innovation and Biomarkers in Cancer Drug Development, (Joint meeting of EORTC, AACR, EMA, NCI), 29-30 November 2018, Brussels, Belgium
 - · Chairs: Roberto Salgado, Denis Lacombe
- ECCO-EORTC-AACR-ESMO "Methods in Clinical Cancer Research", Zeist, The Netherlands, June 2019
- EORTC Quality of Life in Cancer Clinical Trials Conference, 16-17 may 2019
- EORTC Courses at EORTC HQ:
 - Patient Course, 3 March 2018,
 - Statistics for non Statisticians Course, 12-15 June 2018,
 - One day at EORTC, September 2018,
 - IDMC course, Date TBA
- EORTC Survivorship Summit, March 2020, Brussels

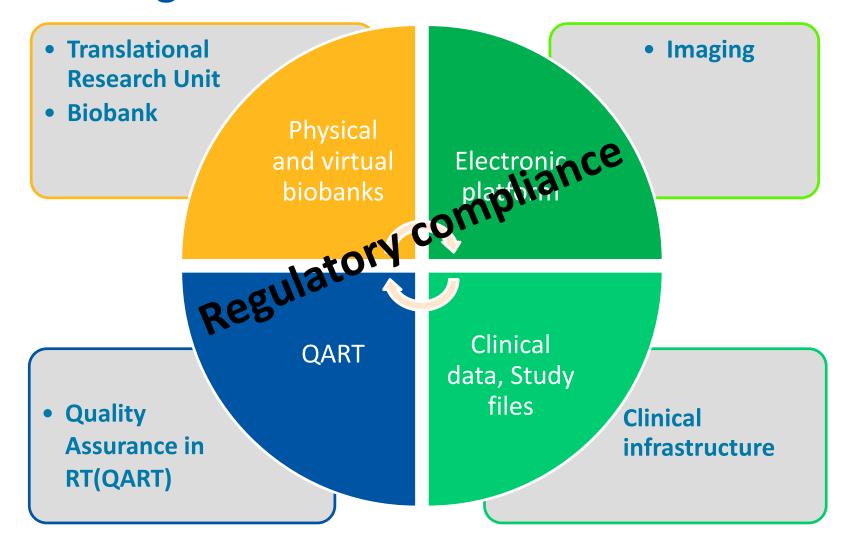


Back-up slides



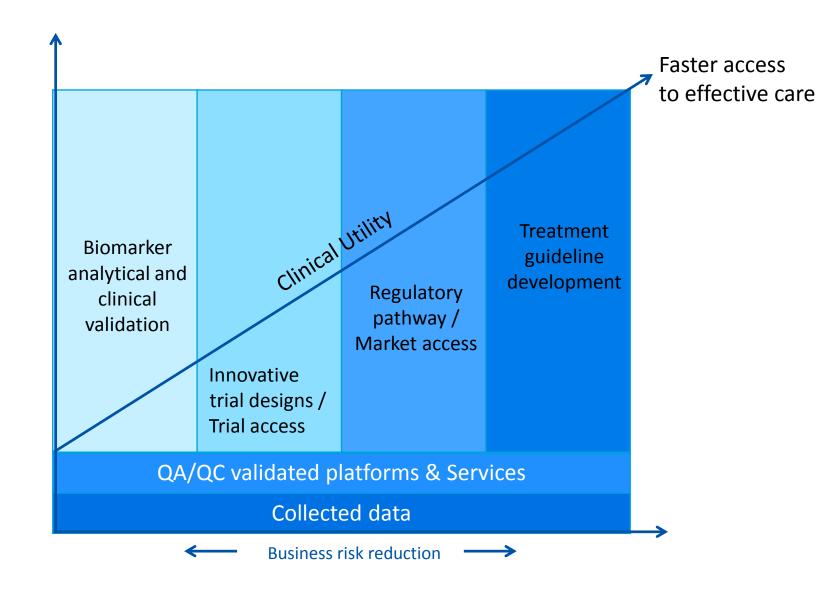


ÉORTC Infrastructure to support new generation clinical trials





Towards a data driven Healthcare





Re-engineering the processes but also the methods towards patient centred research

- Robustness of data sets / methodological evidence
- Better anticipation of therapeutic strategies in real life
- Addressing access to clinical research
 - Patient to protocols
- Addressing access in health care
 - Optimal use of treatments
- Relevance of patient centred end-points
- Approaches to robustness of patient centred end-points TRANSFORMING ASSETS AND STRENGTHS



SPECTA (Screening Cancer Patients for Efficient Clinical Trial Access)

SPECTA is an agile and adaptable infrastructure to reach patients outside of clinical trials. It includes

- A protocol for longitudinal collection of cancer patient data and human biological material without immediate interventional intent
- An informed consent form allowing future unspecified use of the collected data and human biological material, provided that all undefined testing eventually obtains ethical committee approval (without repeat consent)
- The logistics: a biobanking and testing infrastructure, to be activated according to the needs of the attached clinical trials or research projects

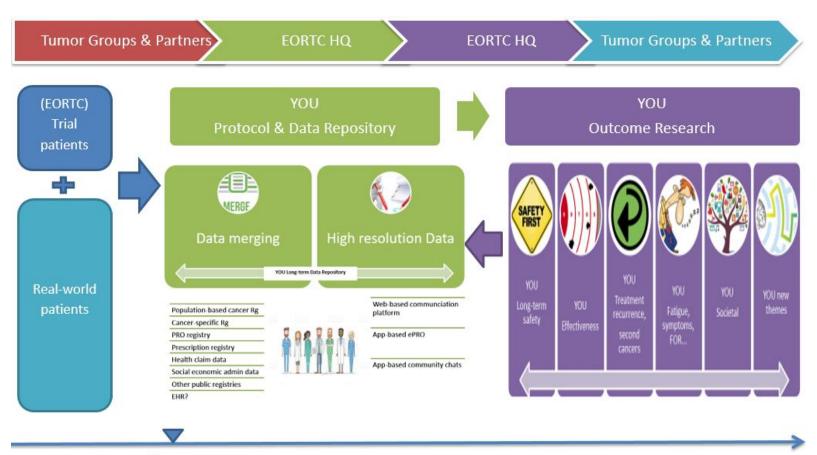


E²-RADIATE

- Offer in Europe an integrated platform that can efficiently collect information on radiation treatment and techniques, linked to clinical information, detailed diagnostic and treatment planning images
- Build on the existing QART programs of the EORTC
 - Harmonized registration of patients: common std data elements
 - Link clinical database with DICOM format image
 - Adaptive platform accommodating new techniques
 - Partnership and data sharing
- Focus on 2 projects (5Y):
 - Particle therapy: registry with objective to normal tissue sparing as compared to photons and probability to lower complications
 - Oligometastatic patients: identification of patients and patterns of care



The YOU protocol and research platform





The EORTC Early Clinical Investigator Leadership Program

- 33 promising ECIs selected by EORTC groups
- November 2017-March 2019
- Objective: raise the next generation of EORTC leaders with full competence to navigate in an evolving environment beyond the sciences, what they need to know to be driving clinical research program 2020-2030 beyond science and medicine

The ECI program is built around six unique dimensions

Academic societies **Policymakers**

Pharma industry

Regulators

Mission and vision

Strategy

Principles (e.g., principle of independence)

EORTC partnerships

YOU as Research

Leaders

Budgeting

Fundraising

EORTC structural Legal, IP approaches

Field work projects

Communication & negotiation

**

EORTC

mission,

history,

strategy

Leadership

& team

management

Problem solving & strategic thinking

Problem solving and critical thinking approach

Problem definition. issue trees and prioritization

Communication: Summary vs. synthesis

Being present as a Medical Affairs Leader

Negotiation theory

Effective interactions

Communicating for impact

Building trust

Connecting medical & cross-functional networks

Coaching

Strengths and passions

Managing energy

Inspirational Leadership & role modeling



We need to work differently...

- Eliminate waste / Improve efficiency
- From siloed tumor based projects to transversal approaches
- Technology based clinical research and bioinformatics

Infrastructure projects

- HBM related infrastructure: SPECTA
- Surgery related infrastructure: SURCARE
- Radiotherapy related infrastructure (E²-RADIatE)
- Long term outcome/survivorship infrastructure: YOU



SurCare: An integrated quality assurance program for Prospective Surgical Clinical Research



- Methodology of Integrated QA
 - Credentialing
 - Assessment of surgical / hospital expertise
 - Standardization
 - Standard surgical protocol
 - Guideline development
 - Definition of quality indicators
 - Central review
 - Use intraoperative pictures for QC
 - Review of surgical complications
 - Review of pathology



Investing in the next generation of clinical investigators

- EORTC fellowships
- ECCO-AACR-EORTC-ESMO Methods in Clinical Cancer Research Workshop
- Early Career Investigator (ECI) Leadership programme



IBCD 2018

29 - 30 November 2018 Brussels, Belgium

www.eortc.org/ibcd #IBCD2018

2nd Conference on Innovation and Biomarkers in Cancer Drug Development



The future of cancer therapy









Education, training and QOL

