

Fostering Age Inclusive Research (FAIR) Trials for Adolescents and Young Adults

Beate Wulff

F. Hoffmann-La Roche, Ltd.

Ethics Committee Medical Faculty University Duisburg-Essen

Why FAIR trials

- Research into teenage and young adults` cancer has made slower progress than for any other age group
- Enrollment of adolescents with cancer in clinical trials is much lower that of pediatric patients
- Many clinical trials exclude patients below 18 yrs of age - without medical justification
- For adolescents with “adult-type” cancers, lack of access to relevant trials
- To confront this problem, the Working Group on Fostering Age Inclusive Research (or FAIR Trials) was established in 2017 by the ACCELERATE Forum

Scientific rationale and medical justification

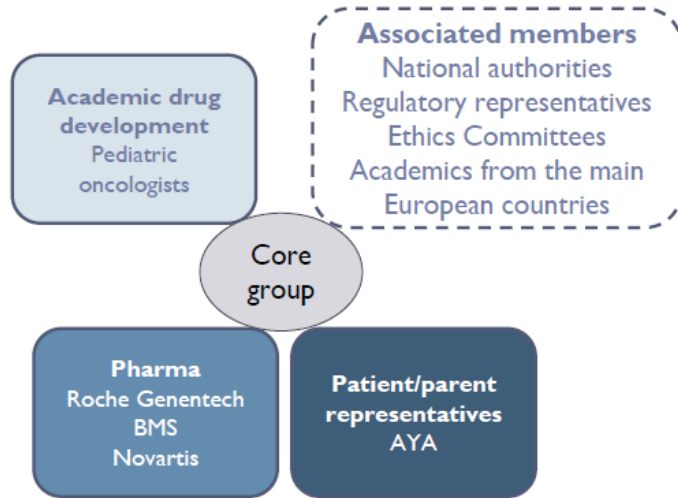
- Similarity of the target disease in adults and adolescents
- Similarity of pharmacokinetics of drugs and therapeutic proteins between adolescents and adults - FDA review of 2013 observed clearance in adolescents averaged 88.6% and 95.1% of the adult clearance for the IV and PO administered drugs
- Adolescents doses may be able to be derived using adult data
- Similarity in safety and tolerability profiles in adults and adolescents

⇒ **It can be recommended to include adolescents (ages 12-17) in disease- and target-appropriate adult oncology trials (FDA, EMA, EFGCP)**

FAIR Trials Working Group

<https://www.accelerate-platform.org/fair-trials/>

Fostering Age Inclusive Research



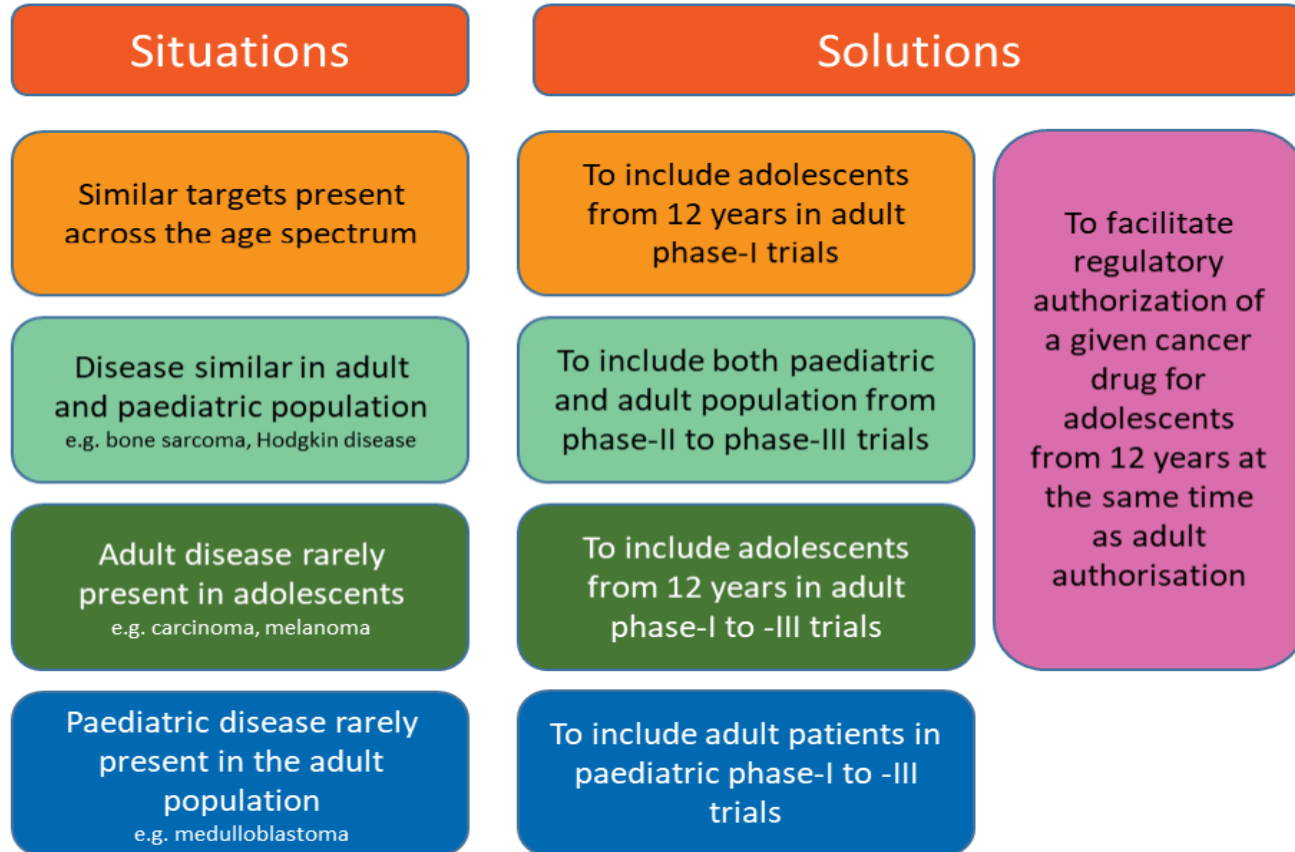
Raise Awareness

Gain Endorsement

Identify Successful Trials

Develop Tools for Colleagues and Supporters

ACCELERATE trial strategy for adolescents and young adults



Industry support

<https://www.accelerate-platform.org/fair-trials/>

Industry organisation letter of support

► Why FAIR trials?

► Multistakeholder supports to FAIR Trial Initiative

► Paediatric and Medical Oncologists

► Patient and Parent advocates

► Industry

► Regulatory



June 19, 2020

- Professor Gilles Vassal, ACCELERATE Chair and Innovative Therapies for Children with Cancer in Europe (ITCC) President
- Dr. Nathalie Gaspar, ACCELERATE Fostering Age Inclusive Research (FAIR) Working Group Co-Chair
- Chris Copland, ACCELERATE Fostering Age Inclusive Research (FAIR) Working Group Co-Chair

RE: Fostering Age-Inclusive Research (FAIR) Trials Initiative

Dear Professor Vassal, Dr. Gaspar, and Mr. Copland,

The Biotechnology Innovation Organization (BIO), European Confederation of Pharmaceutical Entrepreneurs (EUCOPE), European Federation of Pharmaceutical Industries and Associations (EFPIA), EuropaBio – the EuropaBio Association of Bioindustries, the Pharmaceutical Research Manufacturers of America (PhRMA), and our members recognise and value the efforts led by the ACCELERATE'S FAIR Initiative. With the goal of facilitating timely access to novel therapies for children with cancer, we see the FAIR Initiative as an important step to encourage researchers, regulators, ethics committees, and health technology assessment bodies to support and consider the systematic inclusion of adolescents (i.e., individuals from 12 to below 18 years of age), in oncology studies based on the benefit-risk profile of a product, when scientifically, ethically justified and feasible.

Together the Biotechnology Innovation Organization (BIO), European Confederation of Pharmaceutical Entrepreneurs (EUCOPE), European Federation of Pharmaceutical Industries and Associations (EFPIA), EuropaBio – the EuropaBio Association of Bioindustries, Pharmaceutical Research Manufacturers of America (PhRMA), representing the world's leading biotechnology and biopharmaceutical companies and related organisations, we want to bring innovative treatments to all patients that need them and encourage researchers, regulators, ethics committees, and health technology assessment bodies to recognise the use of flexible and practical innovative approaches so that new medicines can reach patients as soon as possible. We encourage an open dialogue between authoritative bodies and

companies on timely development strategies for paediatric populations (e.g. inclusion of adolescents in adult studies, or conducting adolescent studies concurrent to adult studies, where scientifically and ethically justified and feasible).

We do appreciate the efforts led by the FAIR Initiative and hope to continue to partner with ACCELERATE to speed up the delivery of innovative therapies to children and adolescents.

Yours sincerely,

E. Cartier Esham, Ph.D.
Executive Vice President, Emerging Companies
Senior Vice President, Science and Regulatory
Biotechnology Innovation Organization (BIO)

Magda Chlebuz
Executive Director
Science policy & Regulatory Affairs
EFPIA

Alexander Natz
EUCOPE Secretary General

Chief Medical Officer and Executive Vice
President, Science and Regulatory
Advocacy
PhRMA

Bernard Grimm
Healthcare Director
EuropaBio

Patient and Parent advocates

<https://www.accelerate-platform.org/fair-trials/>

▶ Why FAIR trials?

▶ Multistakeholder supports to FAIR Trial Initiative

▶ Paediatric and Medical Oncologists

▶ Patient and Parent advocates

▶ Industry

▶ Regulatory

Patient and Parent advocates

Fostering Age Inclusive Research (FAIR) Trials for Adolescents & Young Adults

Patient and parent advocates play a fundamental role for the success of the FAIR trials initiative. Please find below some useful links.

- The patient voice – Clinical trials for adolescents and young adults – video (Institut Gustave Roussy)
- The power of the personal story in spreading our message – article by Debbie Binner
- Mixed media: Childhood and Adolescent Cancer in the UK Press by Max Williamson (09-07-2018)
- Unite2cure fully supports the ACCELERATE FAIR trials initiative – article by Patricia Blanc (Unite2Cure)



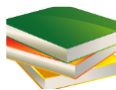
"Personally, I have witnessed how devastating it can be for a teenager to receive the news that they can't be helped because they don't meet an age inclusion criteria. A friend of mine, who was diagnosed with rhabdomyosarcoma and was just a few months away from being 18 years old, was denied access to a clinical trial because of his age. I am thrilled to be part of this initiative as a patient advocate and I wish to help shape the dialogue and raise awareness on this very important issue, hoping to encourage the different stakeholders to recognise how not only patients but also the medical and research community can benefit from this more inclusive approach." - **Mariana Coutinho, Portugal**

Increase awareness of tools or information supporting inclusion of AYA patients

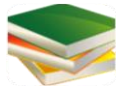
helps to

- positively influence decision making in consideration of trials including AYA patients
- address scientific-knowledge gaps impacting AYA inclusion in adult trials
- Ensure minimum requirements are in place

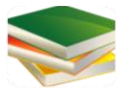
AYA Toolkit



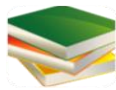
Regulatory aspects



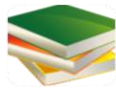
Protocol elements



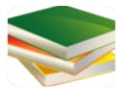
Assent guidance



Other protocol tools (e.g. PROs)



List of ongoing AYA friendly trials



AYA-friendly clinical sites



FAIR for AYA STAMP

<https://www.accelerate-platform.org/fair-trials/>

- ▶ Why FAIR trials?
- ▶ Multistakeholder supports to FAIR Trial Initiative
- ▶ Early Drug Development for Adolescents: Oncology Protocols Survey
- ▶ Resources
 - ▶ FAIR Investigations/ Sponsor Toolkit
 - ▶ FAIR for AYA Stamp
 - ▶ E-learning tools
- ▶ Publications
- ▶ Who we are

FAIR for AYA Stamp

Fostering Age Inclusive Research (FAIR) Trials for Adolescents & Young Adults



FAIR for AYA STAMP offered for **trials** which actively avoid unnecessary barriers based on age

Structure of confidentiality set up

The First three STAMPS

- Roche: **TAPISTRY** (Phase II)
- Eli Lilly/Loxo Oncology: **LIBRETTO-001** (Phase I –II)
- Eli Lilly and Cie: **LIBRETTO-531** (Phase III)





Representatives of the German FAIR trial group

Paediatric Oncologist
involved in early drug development

Cornelis van Tilburg, KiTZ Heidelberg
Beate Wulff, EC Essen

- 07/2018: set up of German FAIR special interest group (paed/adult oncologists, parent representative, project manager) including an overall action plan
- 09/2018: preliminary identification of early phase centers pediatric/adult collaboration
- 10/2018: endorsement of German FAIR group by GPOH chairman group

Medical Oncologist
involved in early drug development

Stefan Fröhling NCT Heidelberg

- Identification/contact the adult phase I/II units
- Further actions in collaboration with paediatric oncologists, parent representative

Sites that are able to perform early phase trials in both adult and pediatric oncology

Germany



In total N=58

Paediatric oncology centres accredited according to German Federal Joint Committee (G-BA)

ITCC centres: N=9

Non ITCC centres N= 49

Epidemiology:

1800 new diagnoses per year

ca. 360-400 relapses,

ca. 40- 50 of these will be cured,

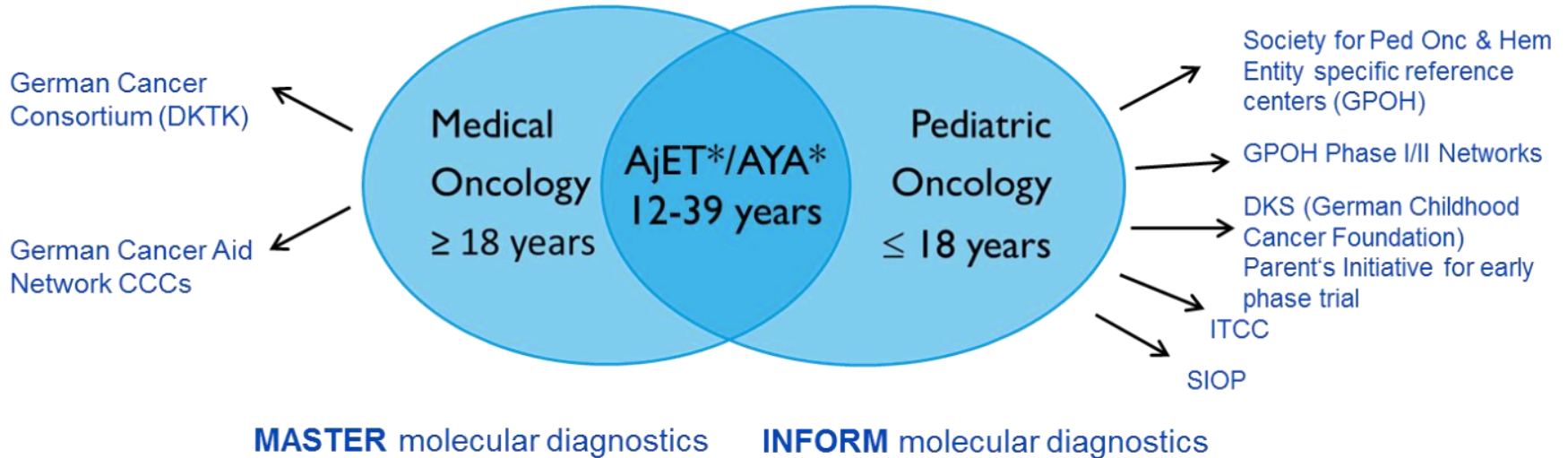
> 300 children with poor prognosis



- Phase I/II Pediatric and Adults
- ITCC Centers

Early phase centers Pediatric+/-Adult Oncology Germany – Preliminary Overview 2019

German Network and Collaboration for FAIR



*AjET adolescents, young adult and transition, AYA adolescents and young adults

What are the hurdles to including adolescents in joint adolescent/adult trials?

- A. Limited incidence of the condition in the 12-17 age range
- B. Competition for the same patients population (12-17 years of age) from another clinical trial
- C. Absence of a pediatric sub-investigator
- D. The study protocol was approved in certain institutions/countries only for 18 years old and above
- E. No appropriate referral network in place to enable enrollment of adolescents
- F. Absence of a pediatric ward or AYA (adolescents young adults) ward/center open for accrual
- G. Operational reasons (which one?)



TAPISTRY:

‘Tumor-agnostic precision immuno-oncology and somatic targeting rationale for you - A phase II platform trial’



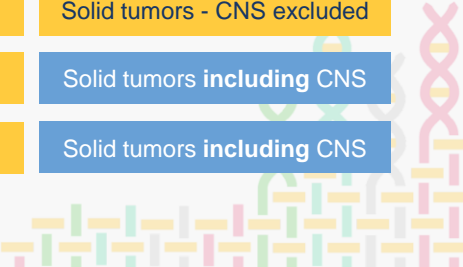
Enrollment via local high quality NGS testing

Central Lab samples required

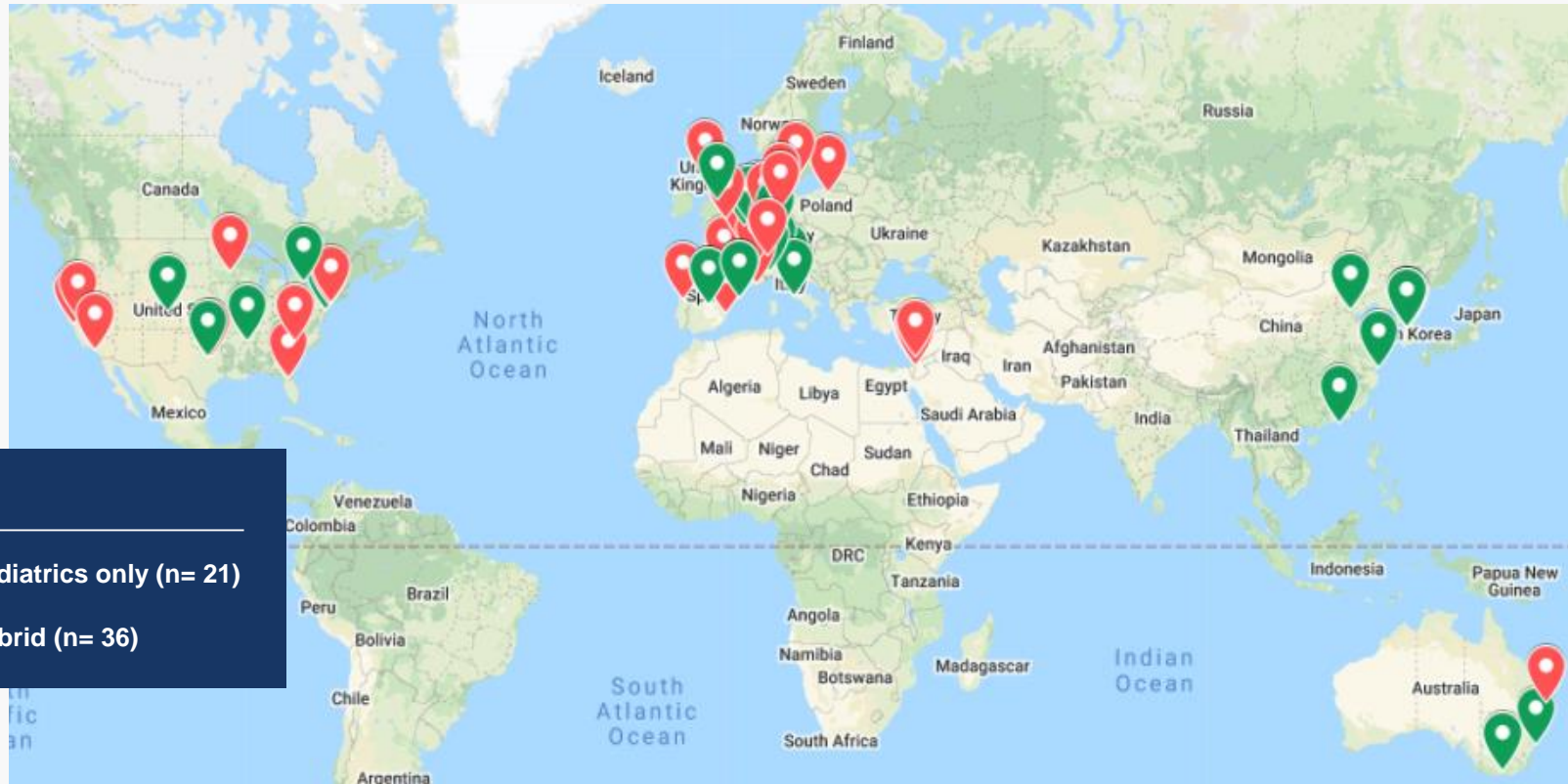


<i>ROS1</i> fusion-positive	✓	Cohort A Entrectinib	0+	Solid tumors including CNS
<i>NTRK1/2/3</i> fusion-positive	✓	Cohort B Entrectinib	0+	Solid tumors including CNS
<i>ALK</i> fusion-positive	✗	Cohort C Alectinib		
TMB-high	✓	Cohort D Atezolizumab	0+	Solid tumors including CNS
<i>AKT1/2/3</i> mutation positive	✓	Cohort E Ipatasertib	≥ 12	Solid tumors - CNS excluded
<i>HER2</i> mutation positive	✓	Cohort F Trastuzumab Emtansine	≥ 12	Solid tumors - CNS excluded
<i>MDM2</i> -amplified, <i>TP53</i> wild-type	✗	Cohort G Idasanutlin		
<i>PIK3CA</i> multiple mutation-positive	✓	Cohort H Inavolisib (GDC-0077)	≥ 12	Solid tumors - CNS excluded
<i>BRAF</i> fusion-positive and mutation positive	✓	Cohort I & J Belvarafenib	≥ 12	Solid tumors including CNS
<i>RET</i> fusion-positive	✓	Cohort K Pralsetinib	≥ 12	Solid tumors including CNS

No minimum - no maximum number of pediatric patients planned for any of the cohorts



A global and extensive pediatric footprint



Summary, perspectives - How Ethics Committees could help

- Scientific rationale and medical justification support the inclusion of adolescents (ages 12-17) in disease- and target-appropriate adult oncology trials
- This approach can be expanded to all age groups and to other disease areas
- Age inclusive trials allow earlier access to innovative drugs for children, adolescents and young adults
- Earlier information on safety and efficacy will inform the overall clinical development plan for children and has opportunity to earlier drug approval
- Awareness, knowledge sharing and multistakeholder support are instrumental to promote these activities