

Cancer in Adolescents and Young Adults (AYA) Working Group



IMPROVING AYA ACCESS TO INNOVATIVE THERAPIES BY BREAKING THE 18 YEARS DOGMA

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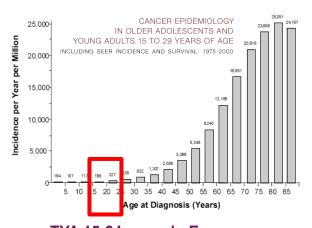


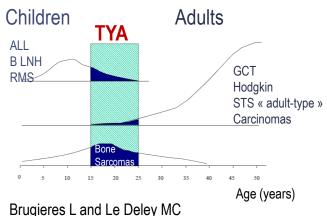
THE CURRENT LANDSCAPE AN URGENT NEED IN NEW DRUGS FOR ADOLESCENTS AND YOUNG ADULTS

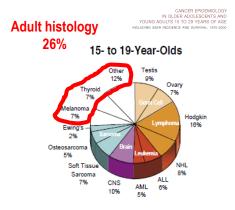
Rare disease

Wide range of histologies

from paediatric type to adult type cancers and cancer with a pic incidence at adolescence







TYA 15-24 years in Europe ~20,000 new cases per year

Gatta G, et al. EJC 2009;992-1005.

Cancer is the third cause of death in the adolescents and young adults

Persistent problems for AYA survival

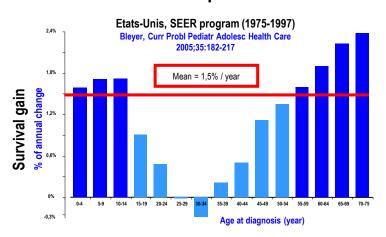
Acute leukaemia, soft tissue and bone sarcoma, some brain tumours Some metastatic or relapsing cancer forms

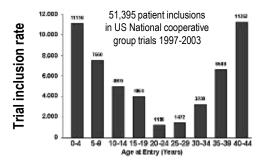




INCLUSION OF AYA IN THERAPEUTIC TRIALS MIGHT IMPROVE SURVIVAL OF AYA WITH CANCER

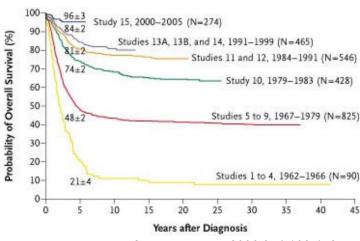
Lower AYA survival gains over years paralleled under-representation of AYA in therapeutic trials





Ferrari A and Bleyer A. Cancer Treat Rev 2007;33:603-608.

Inclusion in therapeutic trials Might improve AYA survival



Pui CH, et al. NEJM 2006;354:166-178.

Access to innovative therapies might improve AYA survival (e.g. imatinib plus chemotherapy in Philadelphia chromosome-positive acute lymphoid leukaemia more often seen in AYA)

McNeer JL, et al. PBC 2018;65(6):e26989.





AYA INCLUSION RATES ARE HIGHER IN AYA DISEASES WHERE JOINT PAEDIATRIC/ADULT PHASE III TRIALS ARE AVAILABLE

Good example: Bone sarcomas (osteosarcomas and Ewing sarcomas)

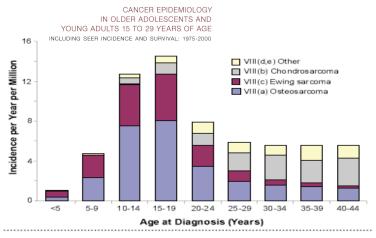
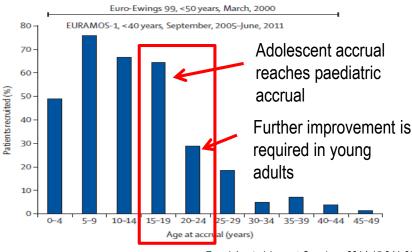


Figure 8.2: Incidence of Bone Sarcomas by Type, SEER 1975-2000



Fern LA, et al. Lancet Oncology 2014;15:341-350.

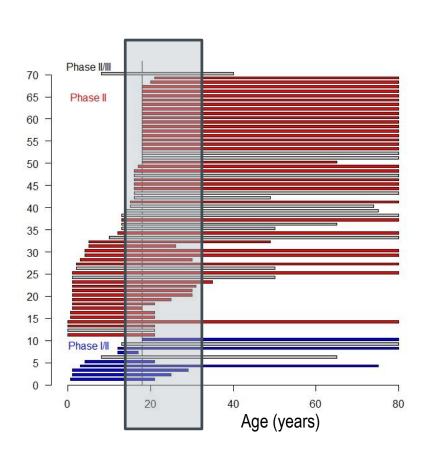
Joint paediatric/adult trial increased adolescent accrual rate But this rate is still insufficient in young adults

Efforts to reach a consensus for JOINT paediatric/adult phase III trial is ongoing in germ cell tumours, rhabdomyosarcoma while more discussion is required in lymphomas and soft tissue sarcomas

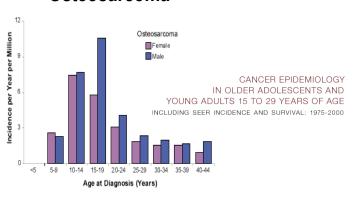




INAPPROPRIATE AGE INCLUSION CRITERIA IN RELAPSE PHASE II TRIALS BY INSUFFICIENT AYA ACCESS TO NEW DRUGS



Osteosarcoma



Only 30% of phase II trial was age adapted to osteosarcoma relapse epidemiology (Worse for targeted therapies than for chemotherapeutic agents)

One alleged cause is the absence of available paediatric recommended dose issued from paediatric phase 1 trial

Age inclusion criteria in osteosarcoma phase II trials 2003-2014

Omer N, et al. EJC 2017;75:98-108.





THE CURRENT LANDSCAPE

Early drug development for adolescents and young adults

The impressive progress recently observed in adult cancers through the introduction of new drugs has not yet been translated to adolescents 12–17 years of age [defined according to the International Conference on Harmonization (ICH) E11].

The current drug development landscape separates adult and paediatric drug development (see next slide). Adolescents are grouped with children, leading to a mismatch with a lack of trials for adolescents with relapsed cancer and delayed access to new, effective drugs already available for adults.





EUROPEAN REGULATION AND CURRENT LANDSCAPE IN NEW EARLY DRUG DEVELOPMENT FOR ADOLESCENTS

Table 1. European regulation and current drug development landscape for adolescents

European regulation

- The Regulation mandated the establishment of the European Medicines Agency (EMA)'s Paediatric Committee (PDCO), coordinating the Agency's work
 on the development of medicines for children and agreeing to the studies that pharmaceutical companies must carry out as part of Paediatric
 Investigation Plans (PIPs).
- The Regulation comprises a system of requirements, obligations, incentives and rewards for completed PIPs, and also waivers and deferrals which provide
 the framework for either obviating or postponing the institution or completion of studies in some or all of the paediatric population (age < 18 years).
- The Clinical Trials Regulation (EU) No 536/2014 has further improved the environment for clinical research in the paediatric population, now legally
 recognising their assent or agreement to clinical trial participation at the European level [25]. This is amongst other provisions to facilitate international
 research and to ensure quicker access to new, innovative treatments [26].

Consequences on current drug development landscape for adolescents

- The possibility for PIP requirements beyond studies proposed by companies is limited by the adult condition (cancer type), and cannot be mandated on
 the basis of the drug's-MoA. However, as PIPs must specify how research and development is done in patients from all age cohorts < 18 years, sponsors
 usually include adolescents 12–17 years in paediatric separate studies, rather than including them in relevant adult trials (which cannot be mandated).
 Adult studies generally recruit patients ≥ 18 years, while paediatric studies often cease recruitment at 18–21 years.
- As paediatric studies generally start later than studies in adults, there are delays in evaluating new drugs for adolescents, and adult patients with 'typical
 paediatric cancers' are not included in disease-specific 'paediatric' trials. Such studies can be proposed by companies, and some have been agreed as
 part of PIPs (e.g. lenvatinib in an osteosarcoma phase II trial, NCT02432274), while others are executed without being part of a PIP (e.g. ruxolitinib phase III
 trial in GVHD, NCT02913261).

The European Paediatric Medicine Regulation [(EC)-No1901/2006)] has dramatically improved the European regulatory environment for the development of paediatric medicines in the EU and has had an international impact [27].

Gaspar N, et al. Annals of Oncology 2018;29:766-771.

https://ec.europa.eu/health/sites/health/files/files/eudralex/vol-1/reg_2006_1901/reg_2006_1901_en.pdf

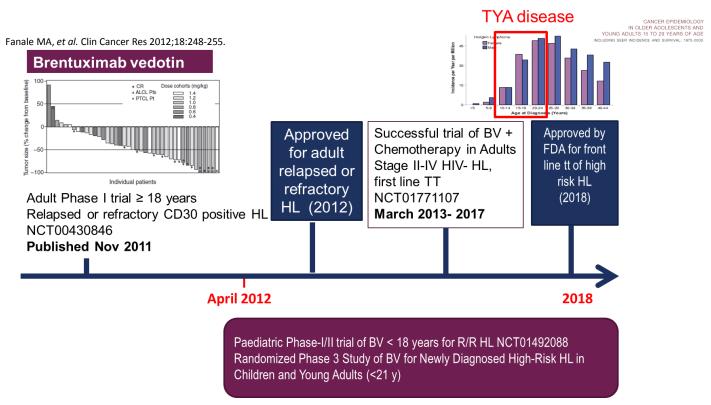




DELAYED ADOLESCENT DRUG ACCESS IN COMMON ADOLESCENT/ADULT DISEASES E.G. HODGKIN DISEASE

In some cancer types with identical drug targets in the paediatric and adult populations, adult phase II trials have demonstrated efficacy, but paediatric clinical development commenced much later

Significantly delayed introduction of beneficial drugs to adolescents



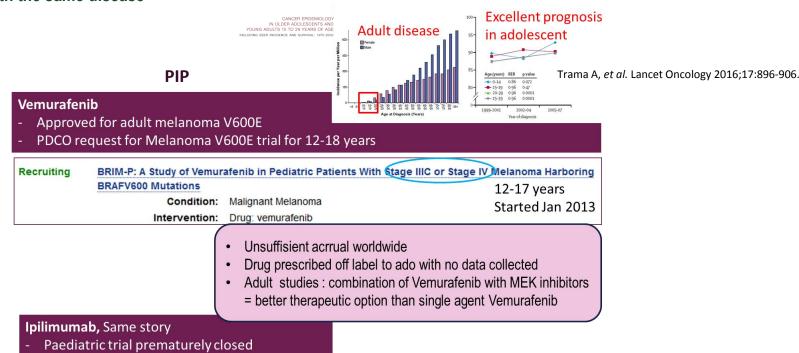




NON-VIABLE ADOLESCENT SPECIFIC TRIALS IN ADULT DISEASE RARELY PRESENT IN ADOLESCENTS E.G. MELANOMA

In diseases too rare in adolescents to allow completion of paediatric trials within a reasonable timeframe, even with worldwide accrual over several years, a very low (but not non-existent) incidence of a condition in adolescents has triggered the regulatory requirement for an adolescent study, while waivers have been granted, based on the absence of the condition, for studies in children < 12 years.

• 'Unfeasible' adolescent-specific phase I/II trials, using a drug already demonstrated effective in adults with the same disease







Standard care in adult are the combinations*

OFF-LABEL USE IN ADOLESCENTS OF NEW EFFICIENT DRUGS APPROVED IN ADULT INDICATIONS

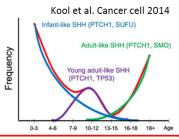
Efficient drug in adult phase I/II trial in a same disease present Delayed paediatric trial in adolescent Off-label use of the drug with an already marketed authorisation in adults No Protection of the adolescents through the research No data collection in the adolescent population on safety, efficacy, and biology For marketing authorisation in this population

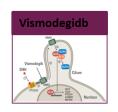




LOSS OF BIOLOGICAL INFORMATION FOR THE ADOLESCENTS AND THE DRUG ACTION/RESISTANCE

E.g. medulloblastoma, SHH pathway inhibitor





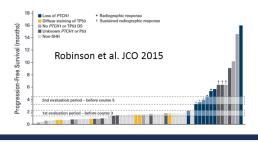
No efficacy of SHH inhibitiors if TP53 mutation presents

Mutations are age-dependant

=> The drug development can not be done in adults only

Adult Phase I trial ≥ 18 years NCT00607724 run 01/2007-12/2008 Response in a 26y-old MB Published Nov 2010

Adult Phase-II NCT00939484 ended in Dec 2012 **Published 2015**



Paed Phase-I trial 3-21 years NCT00822458 01/2009-09/2013 Published 2013 Paed Phase-II NCT01239316 ended in March 2015

Published 2015

Good example of joint development from early phase trial





YOUNG ADULTS MIGHT BENEFIT OF DISEASE-SPECIFIC 'PAEDIATRIC' PHASE 1 TO 3 TRIALS

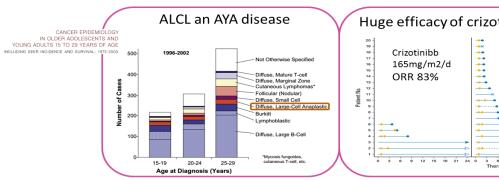
When they suffer from paediatric cancer

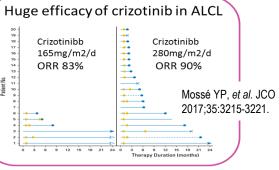
Paediatric inspired protocols might increase AYA but also older adult survival (e.g. leukaemia)¹

Such studies can be proposed by companies and there are concrete examples where such studies have been agreed as part of PIPs (e.g. lenvatinib in an osteosarcoma phase II trial, NCT02432274), and others executed without being part of a PIP (e.g. ruxolitinib phase III trial in GVHD, NCT02913261)²

Crizotinib

- Approved only for adult NSCLC with either ALK or ROS fusion EU approval Oct 2015
- Waiver below 18 years as NSCLC does not exist in children
- No authorisation in ALCL with NPM-ALK fusion while Crizotinib is efficient in this rare AYA dsease





ALCL Anaplastic Large Cell Lymphoma

A paediatric Phase 3 trial of ALK inhibitors in ALCL is in discussion with pharma. Inclusion criteria are intended to include young adult up to 25 years to match the epidemiology of the disease.

1. McNeer JL, et al. PBC 2018;65(6):e26989; 2. Gaspar N, et al. Annals of Oncology 2018;29:766-771.





HOW TO CHANGE THE CURRENT LANDSCAPE?

A rational, rapid and safe solution

To include adolescents in « adults » trials from early phases (phase I/II)

A rational approach to drug development based on the mechanism of action (MoA) of the drug, the therapeutic need and disease epidemiology in adolescents; and similarity between adolescents and adults disease, physiology and drug exposure.

Enrolment of adolescents of 12 years and over in adult early phase clinical drug trials, even in phase I first-in-human trials, may represent a safe and more efficient alternative compared with the current unsatisfactory situation.

This approach is complementary to existing paediatric and adult drug development approaches and should not replace, or delay them; it rather increases opportunities for adolescents to be included in early-phase trials.





TO INCLUDE ADOLESCENTS IN « ADULTS » TRIALS FROM EARLY PHASE (PHASE I/II)



An agreement of all multi-stakeholders involved in early drug development in Europe

Annals of Oncology

Industry corner: perspectives and controversies

Joint adolescent-adult early phase clinical trials to improve access to new drugs for adolescents with cancer: proposals from the multi-stakeholder platform—ACCELERATE

N Gaspar ➡, L V Marshall, D Binner, R Herold, R Rousseau, P Blanc, R Capdeville, J Carleer, C Copland, Y Kerloeguen K Norga, L Pacaud, M-A Sevaux, C Spadoni, J Sterba, F Ligas, T Taube, M Uttenreuther-Fischer, S Chioato, M A O'Connell, B Geoerger, J-Y Blay, J C Soria, S Kaye, B Wulff, L Brugières, G Vassal, A D J Pearson,

Annals of Oncology, mdy002, https://doi.org/10.1093/annonc/mdy002

on behalf of Members of Working Group 1 of the Paediatric Platform of ACCELERATE

Published: 16 January 2018

The only break Is the received ideas

Gaspar N, et al. Annals of Oncology 2018;29:766-771.





NO INCREASED RISK FOR ADOLESCENTS COMPARED TO ADULTS

Under cover of pharmacokinetic assessment in the adolescent population

In vitro and in vivo studies have shown that most elimination pathways are mature and reach adult levels by the age of 12 years¹

Clearance of drugs and many therapeutic proteins have been shown to be similar between adolescents and adults once the effect of body size on pharmacokinetics is taken into account²

The nearly identical doses in patients aged 12 to 17 and adults provide a scientific rationale and biologic justification from a pharmacokinetics perspective that adolescents aged 12 to 17 can be included in selected adult trials³

- 1. Leeder JS, et al. J Clin Pharmacol 2010;50:1377–87; Kearns GL, et al. NEJM 2003;349:1157–67.
- 2. Xu Z, et al. Pharmacol Ther 2013;137:225–47; Zhang Y, at al. J Clin Pharmacol 2015;55 Suppl 3:S103–15.
- 3. Lee JH, et al. JCO 2005;6:701-709; Paoletti X, et al. EJC 2013;49:2392-2402.





NO INCREASED RISK FOR ADOLESCENTS COMPARED TO ADULTS

Similar paediatric and adult phase I trial parameters and acute toxicities – For chemotherapeutic agents, targeted therapies and immunotherapies

Maximal tolerated dose (MTD)

Paediatric MTD strongly correlated to adult MTD

- Either for cytotoxic agents: paediatric MTD = 70-160% of adult MTD in 75% of the trials
- And molecular targeted agents: Paediatric RPIID = 90-130% of the BSA-adjusted approved dose in adults for 70% of the trials and 75% of compounds

Pharmacokinetic

High plasma drug clearance correlation in children and adults (r 0.97)

Median ratio paediatric/adult clearance = 0.95 (range 0,06-2,2)

Acute toxicity profiles

Toxicities types experienced by children enrolled into phase I trials were, with few exceptions, the same as those experienced by adult patients

- Either with cytotoxic agents
- Or with molecular targeted agents

Lee JH, et al. JCO 2005;6:701-709; Paoletti X, et al. EJC 2013;49:2392-2402.





NO LEGAL ISSUE AT EUROPEAN LEVEL

Either to include adolescents in adult trial or young adult population in PIP trial. Joint paediatric /adult trials can be considered...

... If the prerequisites to protect children in research are respected

European Paediatric Medicine Regulation [(EC) No 1901/2006)] on 26 /01/2007: objective of 'improving the health of children in Europe by facilitating the development and availability of medicines for children (between birth and 18 years)

International ICH E11 guideline for the conduct of paediatric clinical trials updated in 2016: recommendation to initiate paediatric studies with medicines that may represent an important advance in treatment for serious and life-threatening diseases with limited treatment options, earlier in the medicine's development

Clinical Trials Regulation (EU) No 536/2014, legally recognising adolescent assent or agreement to clinical trial participation at the European level.

... In Paediatric Investigation Plan (PIP) proposals

PIPs define datasets to be submitted and although in most cases specific trials are proposed, the data may be collected in different ways (e.g. data from adolescent patients included within adult trials, despite the fact that the adult trial could not be changed by the PDCO, as agreeing adult trials is beyond the remit of the PDCO and the trial is often underway/advanced by the time the PIP is submitted/under consideration).

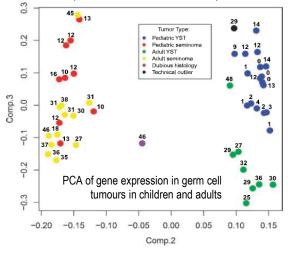




NO LEGAL ISSUE AT EUROPEAN LEVEL TO INCLUDE ADOLESCENTS IN ADULT TRIAL

Distinct gene expression patterns between adult and paediatric tumours of the same histology

Palmer RD, et al. Cancer Res 2008;68:4239-4247.



REGULATION (EU) No 536/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014

on clinical trials on medicinal products for human use, and repealing Directive 2001/20/EC

- 1. A clinical trial on minors may be conducted only where, in addition to the conditions set out in Article 28, all of the following conditions are met:
- (f) the clinical trial either relates directly to a medical condition from which the minor concerned suffers or is of such a nature that it can only be carried out on minors;
- (g) there are scientific grounds for expecting that participation in the clinical trial will produce:

 (i) a direct benefit for the minor concerned outweighing the risks and burdens involved; or Clinical trials on minors
 - (ii) some benefit for the population represented by the minor concerned and such a clinical trial will pose only minimal risk to, and will impose minimal burden on, the minor concerned in comparison with the standard treatment of the minor's condition.

https://ec.europa.eu/health/sites/health/files/files/eudralex/vol-1/reg_2014_536/reg_2014_536_en.pdf

Expected individual benefit

For these adolescents with severe and life-threatening disease without cure hope

Efficacy in adolescent can not be fully extrapolated from adult data, including for

- A same disease
- A similar therapeutic target

Possible benefit for younger children

adolescent inclusion in early adult trials might give signal of activity in paediatric cancers usually not included in adult trials





NO ARBITRARY AGE LIMIT IN CLINICAL TRIALS

A concept already integrated in the health care policy of some countries

. . .

Panel: Statements in regulatory and health-care policies about age eligibility UK Cancer Reform Strategy³⁶

"The use of age as an exclusion criterion in cancer clinical trials is avoided wherever possible"

Japanese Health Policy Bureau³⁷

"It is inappropriate to establish an arbitrary age limitation in clinical trial protocols"

US FDA guideline for industry³⁸

"Protocols should not ordinarily include arbitrary upper age cutoffs"

International Conference on Harmonisation of Technical Requirements for registration of pharmaceuticals for human use studies in support of special populations: geriatrics E7³⁹

"Drugs should be studied in all age groups"; "protocols should not include arbitrary upper age cutoffs"

US FDA guideline for industry E11, clinical investigation of medicinal products in the paediatric population⁴⁰

"The identification of which ages to study should be medicinal product specific and justified"





NO OPPOSITION FROM THE INDUSTRY...

...Which might give some advantages to joint adolescent/adult early trials

This JOINT adolescent and adult trial from early drug development

- Did not jeopardise the outcomes of adult trials
- Might increase the likelihood of achieving proof of concept/proof of principle for drugs with brand new mechanisms of action
- Might increase biology knowledge in drug efficacy/resistance mechanisms, given rational for further development of molecular driven trial and personalised medicine
 - Might positively influence adult drug development of a given drug
 - Shorten and orientate the full paediatric drug development time
- Might accelerate marketing authorisations of an effective drug in adolescent population at the same time of adult approval







PATIENT AND PARENTS SUPPORT

As trials are the safest way to access new drugs for these adolescents

Adolescent patients and their parents are leading co-drivers of this initiative and support it strongly, as do several AYA associations across Europe.

The need to have early access to more new drugs and to be proactively informed about which trials are available has been highlighted by adolescents and parents as priorities.

Adolescents, who have defined themselves as 'people who have to live with the disease without current chance of cure', claim to be able to understand and freely choose whether or not to participate in a trial once they have had clear explanations of expected adverse effects and uncertainties about drug efficacy, and enough time to discuss with their parents and others. They are more than willing to participate in adult trials to increase the chance of their own disease responding, as well as for altruistic reasons i.e. to help future patients, as long as they can still be treated in an age-appropriate environment for their adolescent condition (such as paediatric or AYA units), and maintain the established relationship of trust with their referring doctor. These factors are also considered very important for trial compliance and retention, and thus, ultimately, data quality.

https://imagineformargo.org/en/minimum-age-for-adult-clinical-trials-why-it-should-change/https://unite2cure.org/news/





A RATIONAL, RAPID AND SAFE SOLUTION

To include adolescents in « adults » trials from early phases (phase I/II)

No increased risk for the adolescents

Comparison of ped and adult phase I showed for adolescents ≥ 12 years and adults

- Similar PK
- Similar recommended dose
- Less acute toxicity

No legal issue at European level

If the prerequisites to protect children in research are respected

No opposition from the industry

How to do it in practice?

Patient and parents support

As trials are the safest way to access new drugs for the adolescents





A RATIONAL, RAPID AND SAFE SOLUTION ...

To include adolescents from early phase « adults » trials (phase I/II) ... But not at all cost

Not all drugs but based on a scientific rational (same disease, same therapeutic target) Paediatric oncologists should be involved from the trial concept to adapt it at best to adolescents

To respect the requirements of the regulation for paediatric clinical trial

First patient on a phase I/Ib trial should not be an adolescent

Use dose adapted to body weight or body surface area without exceeding adult dose

To perform PK and toxicity monitoring in the adolescent population, even in phase II or III trials, if the adolescent population is included in adult trial without previous paediatric phase I trial

The adolescent care should continue to be given in an age appropriate care unit (paediatric or TYA units) authorised for phase I/II trials





PROPOSED CHANGES OF THE EUROPEAN PAEDIATRIC PLATFORM



- 1. In adult early-phase anticancer drug studies, the age of entry into clinical trials should be lowered to 12 years where the agent has an MoA relevant to adolescents' unmet treatment needs, especially when the disease is rarely present in adolescents (making separate studies unlikely), unless there are well justifiable medical and/or scientific reasons not to do so.
- 2. There should be no set upper or lower age limit criteria for phases II and III trials for adolescent and young adult (AYA) cancers that are present in both paediatric and adult populations with similar biology. Adolescents over 12 years of age should be included from the onset of the cancer drug development process in adults. Additional adolescent PK and toxicity studies should be undertaken in phase II studies. Children < 12 years should be studied as soon as the pRP2D is determined.</p>
- Trials enrolling adolescents should always be conducted in an age-appropriate setting with clinical care
 provided by expert paediatric or AYA oncologists, to ensure best safety, care and compliance. This could
 be facilitated by having coprincipal investigators, with separate responsibilities for adults and
 adolescents.

Gaspar N, et al. Annals of Oncology 2018;29:766-771.





PROPOSED CHANGES OF THE EUROPEAN PAEDIATRIC PLATFORM



- 4. Adolescents should be included in paediatric phase I, II and III trials where relevant (e.g. adolescents with paediatric cancers type or biological targets).
- 5. Young adults with paediatric cancer types should be offered to participate in paediatric phase II/III trials.
- 6. This approach should yield adequate data to support an adolescent indication at the time of the initial marketing authorisation application for a given anticancer drug, particularly where the disease crosses the age spectrum and has similar biological and clinical behaviour, or when diseases are histologically different but have similar targets present across the age spectrum. Adolescent PK/safety data collected in adult trials, even within trials for different diseases, might support extrapolation of activity between diseases if the targets are the same.

Gaspar N, et al. Annals of Oncology 2018;29:766-771.





BENEFITS

Including adolescents in adult phase I/II trials without the need for prior paediatric phase I/II trials

Improved and earlier access of adolescents to new cancer drugs

Reduce off-label use in the paediatric population

Increased innovative trial available for the AYA population

Accelerate marketing authorisations of an effective drug in the adolescent population at the same time of adult approval

Increase the likelihood of achieving proof of concept/proof of principle for drugs with brand new mechanisms of action

Shorten and orientate the full paediatric drug development time

Might positively influence adult drug development of a given drug

Increase knowledge in AYA tumour biology and drug efficacy/resistance mechanisms, given rational for further development of molecular driven trial and personalised medicine

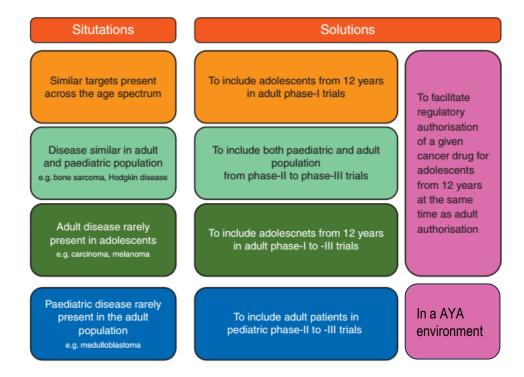




PROPOSED CHANGES OF THE EUROPEAN PAEDIATRIC PLATFORM



ACCELERATE trial strategy for adolescents and young adults



Adolescents inclusion in adult trial when appropriate, even in phase I trial, as soon as some adult PK and toxicity data are available and under cover of adolescent PK/PD studies

Gaspar N, et al. Annals of Oncology 2018;29:766-771.







FAIR TRIALS WORKING GROUP

Fostering Age Inclusive Research

Associated members National authorities representatives Regulators I **Academic drug** Ethic comittees development Academics from the main Paediatric and European countries medical oncologists Core group Pharma Patient/parent Roche Genentech representatives BMS AYA United2Cure **Novartis**

Objective1

To identify successful trials

Objective 2

Raising awareness to the professional involved in trial design and approval and the general public

Objective 3

Tools ready to use to facilitate the understanding of the problem and the initiation of trial

Objective 4

Endorsement of the adolescent strategy

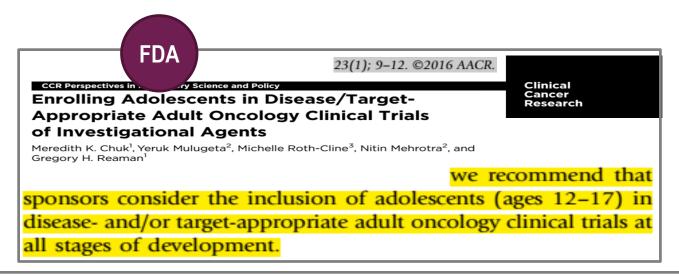
https://www.accelerate-platform.eu/work-programme/ongoing/working-group-fair/why-fair-trials/







A UNIVERSAL CHANGE OF PRACTICE





VOLUME 35 · NUMBER 33 · NOVEMBER 20, 2017

JOURNAL OF CLINICAL ONCOLOGY

ASCO SPECIAL ARTICLE

Modernizing Clinical Trial Eligibility: Recommendations of the American Society of Clinical Oncology–Friends of Cancer Research Minimum Age Working Group

Lia Gore, S. Percy Ivy, Frank M. Balis, Eric Rubin, Katherine Thornton, Martha Donoghue, Samantha Roberts, Suanna Bruinooge, Jennifer Ersek, Nancy Goodman, Caroline Schenkel, and Gregory Reaman

. Automatic inclusion of pediatric patients is

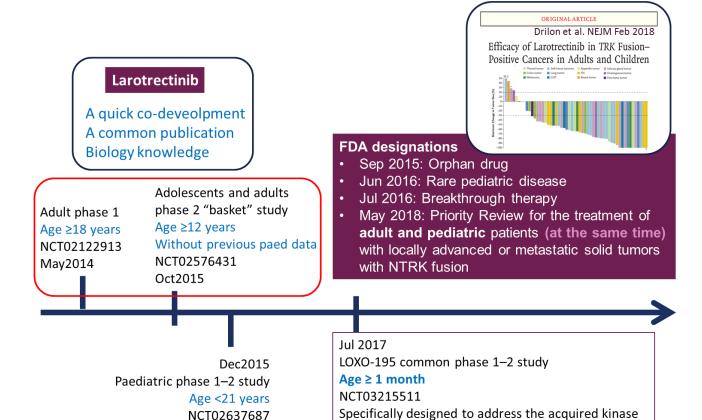
appropriate in early-phase trials that assess dose, safety, and pharmacokinetics in a variety of tumor types and later phase trials that assess efficacy in a specific disease that spans adult and pediatric populations.





A SUCCESSFUL EXAMPLE

An "age- and tumour-agnostic" drug development e.g. rare NTRK fusion positive tumours (< 1% of all tumours)







domain mutations issue

CONCLUSION

Breaking the 18 years dogma in haemato-oncology through JOINT adolescent and adult clinical trials from early drug development is safe and might speed up

- Early drug access of adolescents and young adults (AYA)
- General drug development for both adult and paediatric population

Requirements

- Changing minds
- Increasing collaboration between paediatric and « adult » oncologists
- Increasing collaboration among all the multistakeholders of drug development









Cancer in Adolescents and Young Adults (AYA) Working Group

THANK YOU FOR YOUR ATTENTION

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