

# The present, the past and the future of TEDDY

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# The present, the past and the future of TEDDY

2005

Task-force in Europe for Drug



1°in Europe Network of Excellence to promote Paediatric Research and Paediatric Medicinals development

2011

Network of Excellence for Paediatric Clinical Research

Member of Enpr-EMA





2018



A Network with a legal status to be fully represented in the European paediatric research framework





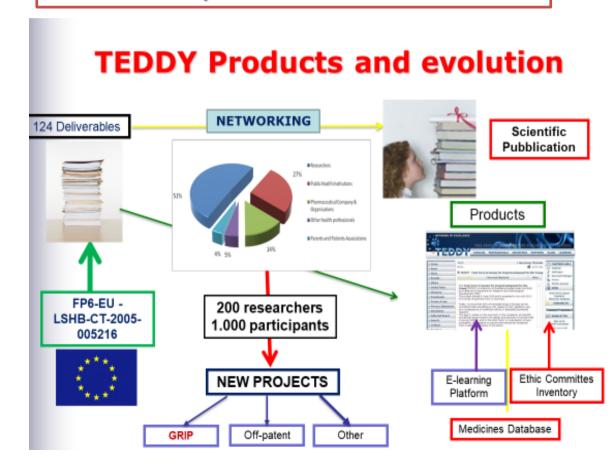
### **Main Topics**

- Life Science and Clinical research
- Ethics and methodology
- Drug uses in children
- Education in Paediatric Medicines
- Knowledge dissemination



# 1°in Europe Network of Excellence to promote Paediatric Research and Paediatric Medicinals development

**Gained experience and Main Results** 



19 Partners (EU+ Israel); Coordinator CVBF; Scientific Coordinators Adriana Ceci & Carlo Giaquinto; Project Manager Fedele Bonifazi; EU Scientific Officer Fergall Donnelly

### Experience and tools from TEDDY NoE

Defining off-label and unlicensed use of medicines for children: results of a Delphi survey

Health				
Professionals	14.29 (12)	20.59 (7)		
Industry	8.33 (7)	8.82 (3)		
Regulatory	20.24 (17)	14.71 (5)		
Scientists	52.38 (44)	55.88 (19)		
Other	4	0		
Total	84	34		
		•		

Inventory of available Paediatric medicines and off-label use in Italy, UK and The Netherland

One hundred-forty three active substances corresponding to 269,590 prescriptions

European Survey on ethical and legal framework in paediatric research

27 European Countries900 Ethic Committees identified770 Questionnaires further circulated

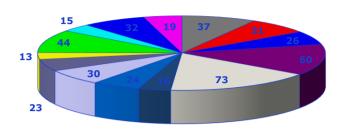
Assessment of 16 databases from 10 EU Countries including 8 million children



		Cohort Case- Control Studies	Drug utilisation studies	IMS DA UK	Pedianet	IPCI	GPRD	THIN Data	QRESEA RCH	SPICE	IMS DA FRANCE	IMS DA AUSTRIA	IMS DA GERMANY	PHARMO	IADB	The Danish Prescription Database (NPD)	Finland prescription register	PEM	Swedish Medical Birth Register
	Unique Identifier																		
	Age	yes	80																
	Age Gender	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes yes	yes	yes	yes
	Death		yes																
_	Death	yes	80	yes	yes	yes	yes	yes	yes	yes	no	no	no	yes	yes	no	no	yes	limited
_	Prescriptions	ves	yes	ves	ves	162	Yes	ves	ves	ves	Yes	Yes	Yes	Yes	Y85	162	Yes	Yes	105
	Unique product code	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
F 0	ATC Code	yes	yes	yes	yes	Yes	no	no	yes	yes	yes	yes	Yes	yes	yes	2	yes	yes	yes
2 2	Date of prescription	yes	yes	yes	yes	yes	765	yes	yes	yes	yes	yes	yes	yes	yes	- 00	yes	yes	no
	Dosage of prescription	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	yes	yes	yes
å	Duration of prescription	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	no	yes	yes
							_												
	Laboratory values	Ves	00	Wes	Wes	V9:5	V95	VPS	VPS	no	VPS	VPS	V93	VES	no	no	00	VPS	no
	Diagnostic data (e.g. x-ray, MRT, etc.)	yes	80	yes	yes	yes	yes	yes	limited	no	no	yes	yes	yes	no	no	no	yes	no
	Treatment outcome	yes	BO	yes	yes	Yes	Y65	yes	yes	no	no	no	no	yes	no	no	no	Yes	no
ě	Hospital admission	yes	BO	yes	yes	Yes	Y65	yes	limited	no	no	Yes	Yes	yes	no	no	no	Yes	no
Outcomes	Hospital discharge diagnosis	yes	BO	no	yes	yes	yes	yes	limited	no	no	no	no	yes	no	no	no	yes	no
	Referral to specialist	yes	BO	yes	yes	yes	yes	yes	limited	no	no	yes	yes	yes	no	no	no	yes	no
	Results of referral visits	yes	no	yes	yes	yes	yes	no	limited	no	no	no	no	yes	no	no	no	yes	no
										_									
	Diagnosis	yes	yes	yes	yes	yes	yes	yes	yes	785	yes	yes	yes	yes	no	no	no	yes	yes
ourfounders	Medical history (anamnesis)	yes	80	yes	yes	yes	yes	yes	yes	yes	no	no	no	yes	no	no	no	no	no
2	Vaccination	yes	BO	yes	yes	yes	yes	yes	yes	yes	no	no	no	yes	no	yes	no		no
3	Allergies	yes	80	yes	no	yes	yes	yes	yes	yes	no	no	no	yes	no	no	no	limited	no
Com	Indication for prescription	yes	80	yes	no	yes	yes	limited	limited	no	yes	yes	yes	no	no	no	limited	yes	no
	Height	yes	BO	yes	yes	yes	yes	yes	yes	no	no	no	no	yes	no	no	no	no	yes
	Weight	yes	80	yes	yes	yes	yes	yes	yes	no	no	no	no	yes	no	no	no	no	yes
	Environmental and life-style characteristics	yes	800	yes	yes	yes	yes	no	no	no	no	yes	yes	yes	no	no	no	no	no
	Access to raw data	yes	80	yes	no	yes	yes	yes	yes	no	yes	yes	yes	yes	no	no	yes	no	yes
	Access to original medical charts	yes	80	no	yes	yes	yes	no	no	no	no	no	no	yes	no	yes	no	no	no

### **Successful Networking activities**







### Data collected on 443 drugs of interest for children

- paediatric status in different countries
- availability on the market
- therapeutic needs
- available/ongoing trials and studies

All data stored in TEDDY Database (EPMD)

OMP trade name	Number of countries where OMP is available	Ranges of first availability	Number of countries where OMPs are distributed by pharmacies	Number of countries where OMPs are 100% reimbursed
Alduraryme	5	2003-2004	2	4
Busilvex	6	2002-2005	1	4
Carbaglu	4	2002-2006	0	2
Fabrazyme	7	2001-2006	2	5
Glivec	7	2001-2006	2	6
Onsenal	2	2002	1	3
Replagal	4	2001	2	2
Somawert	5	2002-2004	1	3
Tracleer	5	2002-2003	1	3
Trisenox	3	2002	1	2
Ventavis	6	2003-2004	2	3
Zavesca	5	2003-2005	1	3
Litak	4	2004	1	3
Lysodren	4	2004-2005	1	4
Orfadin	3	2005	1	1
Pedea	3	2004	1	1
Photobarr	0	not available	not available	not available
Prialt	0	not available	not available	not available
Xagrid	2	2005	1	1
Wilzin	2	2004-2005	0	2



■Anaesthesiology

■Infectious Dis.

Respiratory Dis.

■ Cardiology

□Oncology

■ Diabetes

■ Epilepsy

□Gastroenterology

■Immunology

□Migraine

■Nephrology

■ Pain

Psychiatry

Rheumatology

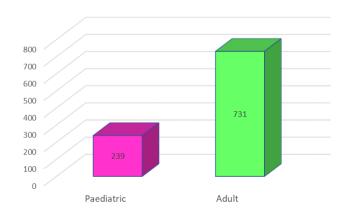
### Experience and tools from TEDDY NoE

A database containing information on paediatric drugs authorised by the European Medicine Agency (EMA) under the centralised procedure. It is aimed to create a **harmonised**, **integrated and reliable European source of information** on paediatric medicines in Europe



After 10 years from the entry into force of the Paediatric Regulation, the number of paediatric medicines has tripled, but they remain ~ 1/3 of all the centrally authorised medicines

### Medicines approved up to 2017



European Paediatric Medicines Database, October 2017



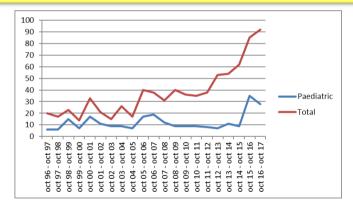
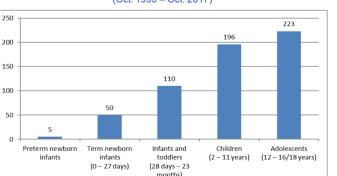


Figure 1 - Medicinal products authorised by EMA divided by year (Oct. 1995 – Oct. 2017)



Not a constant increase for paediatric medicines approval

Still few medicines approved for term and preterm newborns

# Network of Excellence for Paediatric Clinical Research (on Voluntary Agreement basis) NEW PROJECTS Platform Platform Platform Platform Medicines Database RESPECT Palient Reeds RESPECT Palient Reeds

After expiring, the funded period TEDDY has consolidated its activities in the field through a research Consortium Agreement among 41 partners from 14 countries

From 2014 TEDDY was Member of EnprEMA, Category 4 while from 2016 TEDDY is Member of EnprEMA category 1.





**Focus on Ethics and Regulatory** 

•SOPs

 Inventory of the applicable procedures for trials and studies in EU/non EU countries

Focus on paediatric trials governance and management

- Sites Inventory
- Sites preparedness
- Pharmacovigilance
- Trials Management

Focus on children empowerment and awareness



Trials informative documents tailored for children and adolescent
1° Italian YPAG promotion and setting up



### **SOPs Availability**

### **RATIONALE**

The sponsor is responsible for implementing and maintaining quality assurance and quality control systems with written SOPs to ensure that trials are conducted and data are generated, documented (recorded), and reported in compliance with the protocol, GCP, and the applicable regulatory requirement(s).

The TEDDY Network has produced some procedures in the context of the FP7 trials that have been conducted with the involvement of many TEDDY partners.



A plan for SOPs update is now ongoing.





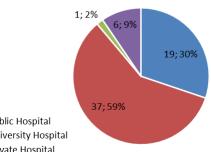
### **Sites Inventory**

Expertise of centres performing paediatric clinical trials, available services, equipment and the centralised services supporting clinical trials in each site

### Preliminary experience

Answers were got from 63 centres belonging to 11 Eu and non-Eu countries (Ireland, United Kingdom, Italy, Albania, Norway, Iceland, Denmark, Austria, Switzerland)

### Respondents



- Public Hospital University Hospital
- Private Hospital
- Other



# North Atlantic Ocean

### **PROs and CONs**

- Completeness of the information to be collected
- Possibility to reach all Eu countries through national contacts
- Easy-to-use online system

- Length of the survey
- Difficulty to check mistakes in the completion
- Self-report
- Need for help-desk service



### Informative documents and YPAG

The GAPP (GAbapentin in Paediatric Pain) project intends to improve the therapeutic perspectives of children who suffer from chronic pain, providing them with the drug "Gabapentin"

> 3 different BOOKLETS for each study (GABA-1 e GABA-2) for different age groups

>2 different ASSENT FORMS for patients from 7 to 11 and from 12 to 17 years of age

Një vizitë e veçantë

Available in the 7 languages of the project (Albanian, French, Greek, English, Italian, Dutch and German)







### Two animated videos have been developed:

presenting general information on clinical trials for young children
presenting general information on clinical trials for teenagers







### Informative documents and YPAG

### **YPAG (Young Persons Advisory Group)**

A Young Persons Advisory Group, or YPAG, is an organization composed of youths, patients, carers and people interested in a health condition or in research, actively participating as partners, advising researchers and their teams in a full range of activities in various research projects and initiatives.



CVBF in collaboration with the TEDDY Network and the paediatric University Hospital Azienda Ospedaliero-Universitaria Consorziale Policlinico di Bari — Ospedale Pediatrico "Giovanni XXIII" promotes the first italian YPAG in Bari corresponding to a new chapter of iCAN, named "KIDS Bari".



Launch event on 7th June 2017 in Bari

### KIDS Objectives:

Peer support for young patients;

advocacy for children, patients and participants in clinical trials:

advise young people on research;

raising public awareness;

fundraising.



Consorzio per Valutazioni Biologiche e Farmacologiche – Dege e shoqerise se huaj, Albanian Branch Office in collaboration with the TEDDY Network and University Hospital Center Tirana "Mother Teresa", Service of Paediatrics), promoted the first YPAGin Albania, named KIDS Albania.

Launch event on 15th September 2017 in Tirana



### Participation in public consultations/contribution in other initiatives

Survey of Young Persons Groups (YPAG) in Europe (January 2017)

blic consultation on "Summary of Clinical Trial Results for Laypersons" (August 2016)

Survey for Enpr-EMA networks regarding Young Persons Groups (April 2016)

Guideline on Conduct of Pharmacovigilance for Medicines used by the Paediatric Population (2006)

Draft guidance on 'specific modalities' for non-commercial clinical trials (2006)

Reflection Paper on the use of Pharmacogenetics in the pharmacokinetic evaluation of medicinal products (2006)

EMA Assessment of paediatric needs and Priority-List of Off-patent medicinal products for paediatric studies (2007, 2008)

Enpr-EMA request for information to develop a Global Paediatric Clinical Trials Network (October 2014) Contribution to the topic of transition from paediatrics to adults clinical care settings by (May 2015)

ICH E11 (R1) guideline on clinical investigation of medicinal products in the pediatric population (April 2017)





### Participation in public consultations/contribution in other initiatives



Ethical Considerations for Clinical Trials Performed in Children (2007)

Public consultation on the revision of "Ethical Considerations for Clinical Trials on Medicinal products conducted with Minors" (August 2016)

ICH E11 (R1) guideline on clinical investigation of medicinal products in the pediatric population (April 2017)

Public consultation to gather stakeholders' experiences of the EU Paediatric Regulation (February 2017)

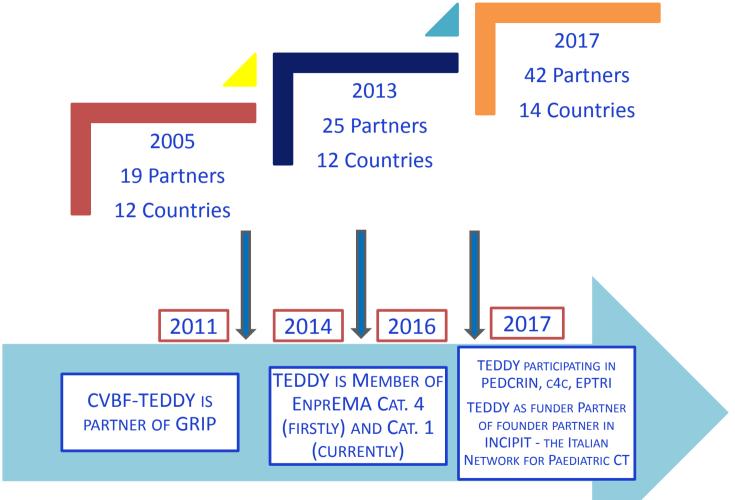
Public consultation on the concept paper on the Revision of the 'Clinical Trials Directive' 2001/20/EC (February 2011)

Contribution to amendments proposed by GRiP to the draft Regulation on Clinical Trials on medicinal products for human use (May 2013)

stakeholder consultation for Horizon 2020 Societal Challenge "Health, demographic change and wellbeing" for the programming exercise 2016/2017 (September 2014)

Evaluation of the legislation on medicines for children and rare diseases (medicines for special populations) (January 2018)

## **TEDDY Step by Step**



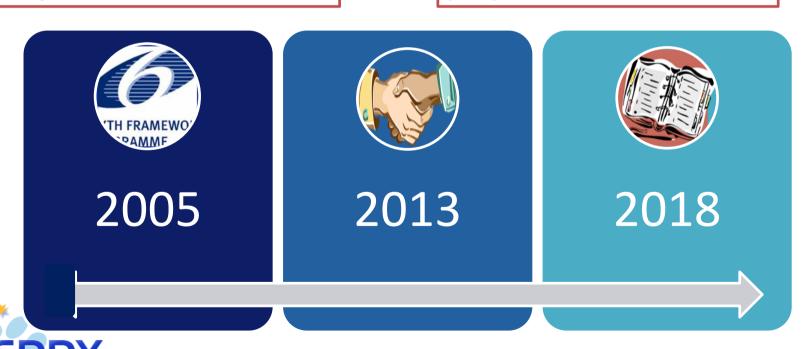


# TEDDY future plans and ambition

### WHY to provide TEDDY with an autonomous legal status?

To consolidate the work carried out up to date

European Network of Excellence for Paediatric Clinical Research to expand the future perspective of the Network



# TEDDY future plans and ambition

### **PARTNERS**

- Up to 42 partners
- Up to 14 countries

### **CURRENT PRODUCTS**

- **EPMD** annually updated
- **CTs Sites Inventory**
- **EU/non-EU Regulatory Procedures**
- Communication Tools for children

### WORKING **GROUPS**

- CTs SOPs/ Ethical Issues/Off-label
- Regulatory/CTs facilities/Health Data
- Children engagement/ATMPs for children



WHICH resources to be committed in this effort?

# TEDDY future plans and ambition

Through an autonomous representativeness we aim to

Have a **consolidated role** in the European paediatric research community framework

Enlarging the participation of its Members actively taking part in new EU projects



