



THE PHARMACHILD PROJECT: A PRINTO/PRES REGISTRY IN JUVENILE IDIOPATHIC ARTHRITIS

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Istituto G. Gaslini Genova

Pediatric Rheumatology International Trials Organisation (PRINTO)

EULAR Centre of Excellence in Rheumatology 2008-2013

Outline

- ◆ PRINTo and juvenile idiopathic arthritis (JIA)
- ◆ Safety of biologicals in JIA
- ◆ The Pharmachild
 - Protocol
 - Websystem
 - Very preliminary results
- ◆ Problems with international collaboration
 - Ethics
 - Funding



www.printo.it (56 countries)

www.pediatric-rheumatology.printo.it

PRINTO

SUPPORTED BY THE EUROPEAN UNION

PRÉS paediatric rheumatology european society

Избирание
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 اختيار **selezione**
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 Επιλέξτε

Argentina	Australia	Belgium	Brasil	България	Chile	中国	Costa Rica
Cuba	Ceská R.	Danmark	Deutschland	مصر	España	France	საქართველო
Ελλάδα	Hrvatska	India	ایران	Ireland	ישראל	Italia	日本
Latvija	Lietuva	Luxembourg	Magyarország	México	Nederland	Norge	Österreich
Polska	Portugal	Россия	المملكة العربية السعودية	Shqiperi	Singapore	Slovenija	Slovensko
대한민국	Srbija i Crna Gora	Suomi	Sverige	Switzerland	تونس	Türkiye	UK

Information on **paediatric rheumatic diseases**

“.to foster, facilitate, and conduct high quality research in the field of paediatric rheumatology...”

PRINTO bylaws

To be listed on this website please download the SURVEY For any inaccuracy CONTACT us LINKS to related websites



PRINTo no profit studies

	Western Europe	Eastern Europa	Latin America	North America	Other	Total
MTX	492	55	66	8	12	633
QOL	3,988	1,388	903		365	6,644
JSLE	243	102	150	37	21	553
JDM	162	37	78	18	3	298
CSA	203	27	25	85	4	344
MTX2	180	80	90		10	360
Vascul.	599	353	260	6	181	1399
Autoin	750	133	24		96	1003
JDM	98	13	15	1	2	139

The success of the EU pediatric legislation

Regulation (EC) no 1901/2006



	West Europe	East Europe	Latin America	North America	Total
Etanercept				69	69
Infliximab	61	10	28	11	110
Adalimumab	57	26		88	171
Abatacept	75		108	31	214
Tocilizumab	59	7	22	24	112
Tocilizumab	54	50	60	24	188
Canakinumab	26				26
Canakinumab	141	13	17	19	190



JIA definition

- ◆ Arthritis with
 - Onset before the age of 16
 - Unkown etiology
 - Persistent for at least 6 weeks
- ◆ Reported prevalence of 86.1-94 per 100,000 children
- ◆ Classification criteria
 - 1977-78: juvenile reumathoid arthritis (USA), juvenile chronic arthritis (Europe)
 - **1997 juvenile idiopathic arthritis (JIA)**



The anti-TNF hidden problem

- ◆ **2008 FDA black box warning:** a possible increased risk of lymphoma and other malignancies in children treated with anti-TNF agents.
 - 9 cases in registries (mainly lymphomas)
 - FDA Post-marketing 48 pediatric malignancies (**20 in JIA**, 28 in IBD), after a median of **2.5 years** (range 1 month-7 years), **50% lymphomas**, most while using **other drugs** (steroids, azathioprine, MTX, mercaptopurine)



Anti TNF and Malignancies

Juvenile Idiopathic Arthritis and Risk of Cancer

A Nationwide Cohort Study

J. F. Simard,¹ M. Neovius,¹ S. Hagelberg,² and J. Askling³

ARTHRITIS & RHEUMATISM
Vol. 62, No. 12, December 2010, pp 3776-3782

Arthritis & Rheumatism

An Official Journal of the American College of Rheumatology
www.arthritisrheum.org and www.interscience.wiley.com

EDITORIAL

Should the Food and Drug Administration Warning of Malignancy in Children Receiving Tumor Necrosis Factor α Blockers Change the Way We Treat Children With Juvenile Idiopathic Arthritis?

Malignancies in Juvenile Idiopathic Arthritis: A Preliminary Report

SASHA BERNATSKY, ALAN M. ROSENBERG, KIEM G. OEN, CIARAN M. DUFFY, ROSALIND RAMSEY-GOLDMAN, JEREMY LABRECQUE, YVAN ST. PIERRE, and ANNE E. CLARKE
(J Rheum 2011; 38:1007-1011)
First Release Jan 15 2011; doi:10.3899/jrheum.100711

Tumor Necrosis Factor α Blockers and Malignancies: Forty-Eight Cases Reported

Peter Diehl, Lois La...

U.S. Department of Health and Human Services | www.hhs.gov

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Drug Safety and Availability | Postmarket Drug Safety Information for Patients and Providers

Early Communication About an Ongoing Safety Review of Tumor Necrosis Factor (TNF) Blockers (marketed as Remicade, Enbrel, Humira, and Cimzia)



JIA and Malignancies considerations

- ◆ the effect of biological therapies on cancer risk in JIA is controversial owing to confounding factors such as the use of concomitant immunosuppressants
- ◆ Questions still remain on the effect of the disease itself and biological therapies on cancer risk.
- ◆ A rigorous pharmacovigilance system with a very large sample size and an adequate follow-up period



Pharmachild registry question

- ◆ Are current available **drugs (biologics±MTX)** able, in the long run, to achieve
 - clinical remission
 - prevent/stop joint erosions development over time while
 - **maintaining an acceptable safety profile?**
- FP7 funding 2011/2014 (**PI Dr Nico Wulffraat**)
- **ENCEPP sealing:** 25 November 2011
- NCT number: NCT 01399281

Study design: retrospective

RETROSPECTIVE DATA COLLECTION OF ANONYMOUS JIA PATIENTS

Step 1: Census

data collection of limited key elements (e.g. initials, JIA subtype, drug treatment) of all JIA patients followed at each centre.

This step will include individual PRINTO/PRES centres and existing national/international registries

Step 2: one time safety anonymous data collection (written consent only if required by local ethics committee)



Study design: prospective

PROSPECTIVE DATA COLLECTION OF CONSENTING JIA PATIENTS

Longitudinal (up to 3-10 years and more) collection of safety/efficacy data of

- 1) inception cohort of newly treated children (biologic agents \pm MTX) after consent
- 2) patients from the retrospective cohort who will sign consent/assent

IMPORTANT for Group 2 enrollment in the prospective cohort will allow validation of the retrospective chart review



Choice of the control group

1. JIA treated with MTX alone
2. JIA treated with a combination of MTX \pm biologicals/other drugs
3. JIA treated with biologicals
4. (JIA treated only with NSAIDs and/or steroid injection with at least 3 years follow-up).



Choice of the control group

1. JIA treated with MTX alone
2. JIA treated with a combination of MTX \pm *biologicals*/other drugs
3. JIA treated with *biologicals*
4. (JIA treated only with NSAIDs and/or steroid injection with at least 3 years follow-up).



Strategies for success

- ◆ **Census** of patients treated with MTX±biologics
- ◆ **Moderate to severe adverse events (AE) and Events of Special Interest (ESI)**
 - **Malignancies, serious infections, autoimmune dis., gastrointestinal events, growth failure etc**
- ◆ **Simplified*** and userfriendly web CRF
 - **Patient chronicle (drug, flare, JADAS, remission, safety)**
- ◆ **Family involvement** for AE/outcome reporting
- ◆ **Regular update to MDs, families**



<https://www.printo.it/pharmachild/investigator/>



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PRINTo

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Email: printo@ospedale-gaslini.ge.it



Privacy

- ◆ Personal information (first and last name, date of birth and the national patient unique identifier).
 - To be seen ONLY on the local computer screen.
 - On the central PRINTo database ONLY one way encrypted data will be saved.
- ◆ **Impossible for PRINTo to decrypt or disclose to anyone the personal information**
- ◆ Info exchange PRINTo ↔ local centres through the PRINTo PRINTo patient id (country-centre-patient number e.g. IT-01-0010)



Patient list decripted



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SUBJECTS LIST FOR CENTRE IT01

[+ enter a new subject](#)

Displayed results: 25
Page number: 1 [Go to page](#)

Subject ID	First name	Last name	Age (Y)	Gender	ILAR Category	CENSUS	RETRO	PROSP	ACTION	
IT01			All	All	Category: All	Prov: All	All	All	All	Filter Reset
(in red provisional diagnosis)										
IT01-0479	Elena	Arcidiacono	10	F	SYSTEMIC	✓	✓	✗	summary	
IT01-0478	Riccardo	Cremona	18	M	ENTHES	✓	✗	-	summary	
IT01-0477	Elisa	Lagati	10	F	POLY (RF-)	✓	✓	✗	summary	
IT01-0476	Manuel	Giacchetti	9	M	OLIGO PERSISTENT	✓	✓	✗	summary	
IT01-0475	Martina	Conti Belloc	5	F	OLIGO PERSISTENT	✓	✓	✗	summary	
IT01-0474	Giulia	Balocco	20	F	OLIGO PERSISTENT	✓	✓	✗	summary	
IT01-0473	Fabio	Conoscitore	14	M	ENTHES	✓	✓	✗	summary	
IT01-0472	Immacolata Da	Botta	18	F	POLY (RF+)	✓	✓	✗	summary	
IT01-0471	Carlotta	Gazzotti	16	F	OLIGO EXTENDED	✓	✗	-	summary	
IT01-0470	Federico	De Chiara	19	M	OLIGO EXTENDED	✓	✓	✗	summary	
IT01-0469	Martina	D'Angelo	14	F	OLIGO EXTENDED	✓	✗	-	summary	



Patient list encrypted



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Subject ID	First name	Last name	Age (Y)	Gender	ILAR Category	CENSUS	RETRO	PROSP	ACTION	
IT01	No Filter	No Filter	No Filter	All	Category: All	Prov: All	All	All	All	Filter Reset
(In red provisional diagnosis)										
IT01-0479	Encrypted	Encrypted	Encrypted	F	SYSTEMIC	✓	✓	✗	summary	
IT01-0478	Encrypted	Encrypted	Encrypted	M	ENTHES	✓	☐	-	summary	
IT01-0477	Encrypted	Encrypted	Encrypted	F	POLY (RF-)	✓	✓	✗	summary	
IT01-0476	Encrypted	Encrypted	Encrypted	M	OLIGO PERSISTENT	✓	✓	✗	summary	
IT01-0475	Encrypted	Encrypted	Encrypted	F	OLIGO PERSISTENT	✓	✓	✗	summary	
IT01-0474	Encrypted	Encrypted	Encrypted	F	OLIGO PERSISTENT	✓	✓	✗	summary	
IT01-0473	Encrypted	Encrypted	Encrypted	M	ENTHES	✓	✓	✗	summary	
IT01-0472	Encrypted	Encrypted	Encrypted	F	POLY (RF+)	✓	✓	✗	summary	
IT01-0471	Encrypted	Encrypted	Encrypted	F	OLIGO EXTENDED	✓	☐	-	summary	
IT01-0470	Encrypted	Encrypted	Encrypted	M	OLIGO EXTENDED	✓	✓	✗	summary	
IT01-0469	Encrypted	Encrypted	Encrypted	F	OLIGO EXTENDED	✓	☐	-	summary	



Home page: communication tracking



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HOME PAGE FOR CENTRE IT01

⚠ Please remember that the following groups of patients with JIA can be enrolled into the Pharmachild study:

- **Group 1:** JIA patients treated with BIOLOGICS with or without MTX (as of December 2011 funding available only for this group)
- **Group 2:** JIA patients treated with MTX only but not with BIOLOGIC (volunteer data provision; no funding available at December 2011)
- **Group 3:** JIA patients with at least 3 years follow-up treated with NSAIDs and/or steroid injections only (volunteer data provision; no funding available as of December 2011)

OPEN QUERY TICKET

Last message on	Last message Author	TOPIC	SUBJECT	ACTION
23-DEC-2011 14:31:57	Giuseppe Silvestri	Site Log	MANNAGGIA A LUCIANI	details
27-DEC-2011 13:14:54	Giuseppe Silvestri	Data queries	sdsa	details
27-DEC-2011 13:28:19	Giuseppe Silvestri	SAE initial	PROVA	details
27-DEC-2011 13:30:04	Giuseppe Silvestri	SAE initial	fdfd	details
30-DEC-2011 14:12:12	Giuseppe Silvestri	SAE initial	TEST_TRIGGER	details
02-JAN-2012 10:42:48	Luca Villa	Technical problem	prova invio ticket colpo singolo	details
02-JAN-2012 11:22:13	Luca Villa	Technical problem	invio selettivo a due indirizzi	details
02-JAN-2012 11:29:54	Luca Villa	Technical problem	PROVA TICKET MANDATO A TUTTI	details
02-JAN-2012 12:35:19	Chiara Pallotti	Technical problem	ticket con allegato x luca	details
02-JAN-2012 12:37:19	Chiara Pallotti	Centre Password lost	rifaccio ticket con allegato x luca	details



Ethics committees documents



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PHARMACHILD SITE DOCUMENTATION

ETHICS COMMITTEE DOCUMENTATION

- [Ec site approval](#)
- [Documenti per Comitati Etici italiani](#)
- [Consents / Assents, Protocols, JAMAR translations and CRFs English version](#)



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Consents / Assents, Protocols, JAMAR translations and CRFs English version

Country	1. Protocol full/synopsis	2. Consent/Assent forms	3. JAMAR parents/child	4. CRFs
PRINTo English version	Full protocol PDF ↓	Consent parents PDF ↓	JAMAR parents PDF ↓	CRF retrospective PDF ↓
	Synopsis PDF ↓	Consent 18+ PDF ↓	JAMAR child PDF ↓	CRF prospective PDF ↓
		Assent minor PDF ↓		CRF safety PDF ↓
Belgium	Full protocol PDF ↓	Consent parents PDF ↓	JAMAR parents	CRF retrospective PDF ↓
	Synopsis PDF ↓	Consent 18+ PDF ↓	JAMAR child	CRF prospective PDF ↓
		Assent minor PDF ↓		CRF safety PDF ↓
Bulgaria	Full protocol PDF ↓	Consent parents PDF ↓	JAMAR parents PDF ↓	CRF retrospective PDF ↓
	Synopsis PDF ↓	Consent 18+ PDF ↓	JAMAR child PDF ↓	CRF prospective PDF ↓
		Assent minor PDF ↓		CRF safety PDF ↓
Czech Republic	Full protocol PDF ↓	Consent parents PDF ↓	JAMAR parents	CRF retrospective PDF ↓
	Synopsis PDF ↓	Consent 18+ PDF ↓	JAMAR child	CRF prospective PDF ↓



Provide **advantages** for the physicians

- ◆ Immediate feed back by the system
- ◆ Use in routine clinical care with patient in visit room
 - Pre involvement of parents through **patient's reported outcome (PRO)**
- ◆ Patient's quantitative chronicle
 - Decision on patient management based on quantitative data
- ◆ No paper forms but web forms
- ◆ **A research and clinical service to the pediatric rheumatology community**

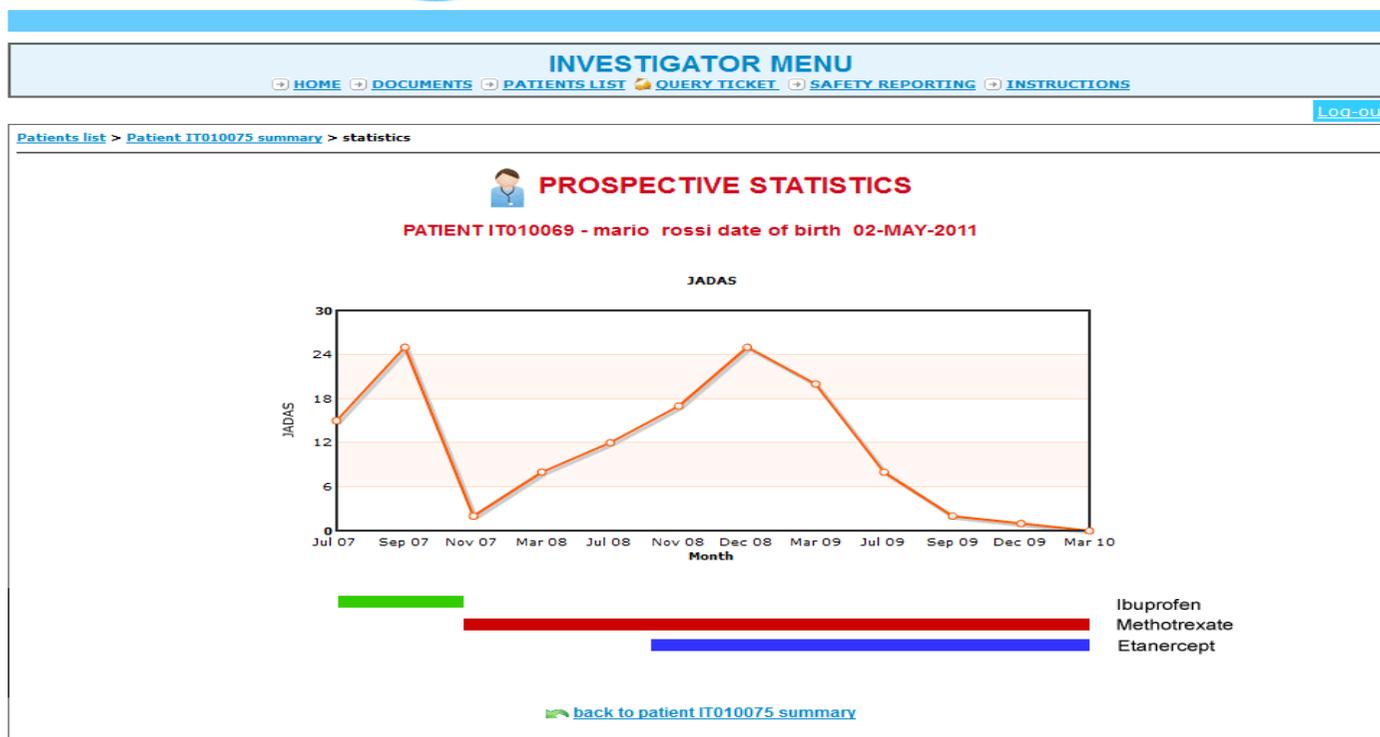


Download your own data

Microsoft Excel interface showing a spreadsheet with columns labeled PATIENT ID, VISIT DATE, AnaDa1st, AnaDa2nd, Ana1stDe, Ana1stSp, Ana2ndDe, Ana2ndSp, AnaDeMet, AnaDeMSp, AnaDeMet2, AnaDeMSp2, and RF1st.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	PATIENT ID	VISIT DATE	AnaDa1st	AnaDa2nd	Ana1stDe	Ana1stSp	Ana2ndDe	Ana2ndSp	AnaDeMet	AnaDeMSp	AnaDeMet2	AnaDeMSp2	RF1st
2	IT010479	05/04/2012			99	titer:		titer:					0
3	IT010478	13/09/2012			99	titer:		titer:					99
4	IT010477	04/04/2012	15/02/2005	06/04/2010	1	titer: 1:320	1	titer: 1:320	0		0		0
5	IT010476	04/04/2012	14/07/2010		1	titer: 1:160	99	titer:	0				99
6	IT010475	03/04/2012	01/10/2010	10/10/2011	0	titer:	0	titer:	0		0		0
7	IT010474	03/04/2012	27/07/2011		1	titer: 1:320	99	titer:	0				99
8	IT010473	11/04/2012	15/11/2008		0	titer:	99	titer:	3				1
9	IT010472	23/11/2011	29/03/2008		1	titer: 1:80	99	titer:	3				1
10	IT010471	05/04/2011	29/03/2007		1	titer: 1:320	99	titer:	0				0
11	IT010470	22/06/2011	05/06/1998	15/09/1998	1	titer: 1:640	1	titer: 1:640	3		3		0
12	IT010469	05/06/2012	15/07/2005	19/09/2005	0	titer:	0	titer:	0		0		99
13	IT010468	20/11/2012			99	titer:		titer:					0
14	IT010467	11/09/2012	16/05/2002	06/07/2004	0	titer:	0	titer:	0		0		0
15	IT010466	16/04/2013	23/10/2002	13/11/2003	1	titer: 1:320	1	titer: 1:320	0		0		99
16	IT010465	23/11/2009	20/01/2005	17/01/2008	1	titer: 1:160	1	titer: 1:320	0		0		99
17	IT010464	09/07/2012	04/08/2009		0	titer:	99	titer:	0				0
18	IT010463	06/12/2012	19/09/2005	29/09/2008	1	titer: 1:320	1	titer: 1:160	0		0		99
19	IT010462	15/07/2011	15/05/2008	15/06/2008	0	titer:	0	titer:	0		0		0
20	IT010461	01/02/2013	24/01/2007	14/11/2007	1	titer: 1:160	0	titer:	0		0		99
21	IT010460	14/02/2013			99	titer:		titer:					99
22	IT010459	21/05/2012	05/07/2004	13/07/2005	1	titer: 1:320	1	titer: 1:160	0		0		0
23	IT010458	22/11/2012	04/02/2010	19/05/2010	1	titer: 1:320	1	titer: 1:320	3		0		0
24	IT010457	04/03/2011	15/10/2007		1	titer: 1:160	99	titer:	3				0
25	IT010456	03/12/2012	06/09/1995	12/01/2012	1	titer: 1:320	1	titer: 1:320	0		0		99
26	IT010455	17/05/2012	18/03/2005	30/11/2005	1	titer: 1:160	1	titer: 1:160	0		0		99
27	IT010454	21/06/2012	07/07/2005	23/09/2009	1	titer: 1:80	1	titer: 1:160	0		0		0
28	IT010453	10/07/2012	12/12/2006		1	titer: 1:320	99	titer:	0				99
29	IT010452	13/03/2013	13/06/2005		0	titer:	99	titer:	0				0
30	IT010451	20/09/2012	28/09/2004	27/03/2006	1	titer: 1:320	1	titer: 1:80	0		0		99
31	IT010450	08/08/2012	11/10/2005	10/02/2010	1	titer: 1:320	1	titer: 1:320	0		0		99
32	IT010449	30/08/2012	18/01/2006		0	titer:	99	titer:	0				0
33	IT010447	15/05/2012	02/10/2008	22/07/2011	0	titer:	0	titer:	0		0		0

Patient disease activity and drugs



**Pediatric Rheumatology
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Events of special interests (ESI)

The following adverse events have been classified as being of special interest (ESI) for the Pharmachild study:

1. Aplastic anemia	14. Lupus erythematosus systemic/lupus-like syndrome
2. Neutropenia	15. Lymphomas
3. Pancytopenia	16. Leukaemias
4. Congestive heart failure	17. Haematopoietic neoplasms (excl leukaemias and lymphomas)
5. Gastrointestinal ulcer/bleed/perforation	18. Macrophage activation syndrome
8. Inflammatory Bowel Disease (IBD)	19. Neoplasm (other)
9. Tuberculosis	20. Demyelination
10. Serious/targeted infections	21. Optic neuritis
11. Other autoimmune diseases	22. Multiple sclerosis
12. Infusion-related reaction	23. Pregnancy
13. Injection related reaction	

PRINTO Feasibility (refer to 2008 – updated 2013)



	Western Europe	Eastern Europe	Latin America	Other	Total
No of centres	87	35	38	37	197
Methotrexate					
Prevalent	10,663	4,276	4,231	3,438	22,608
Incident	2,148	845	960	740	4,693
Biologic agents					
Prevalent	5,538	2,296	1,152	1,030	10,016
Incident	1,682	569	409	365	3,025



Methodology versus logistic hurdles

- ◆ 103 approvals from 30 different countries for JDM trial (essentially no comments) in two years
 - **3 refused approval because drugs were “not approved” for use in children!**
 - **Some request insurance for a “standard of care study” (20,000€ or 8% of the budget from AIFA)**
- ◆ **Move from directive to regulation for**
 - **Insurance not required for “standard of care” studies**
 - **“logistic management” of ethics approval: eg one per the entire EU or one per country**



Ethics evaluation or ethics bureaucracy?

Downloaded from adc.bmj.com on October 4, 2012 - Published by group.bmj.com

Editorial

Ethics bureaucracy: a significant hurdle for collaborative follow-up of drug effectiveness in rare childhood diseases

Mats G Hansson,¹ Marco Gattorno,²
Joanna Stjernschantz Forsberg,¹ Nils Feltelius,^{3,4}
Alberto Martini,² Nicolino Ruperto²

Arch Dis Child June 2012 Vol 97 No 6

Funding

- ◆ FP7 funding 2011/2014 (**PI Dr Nico Wulffraat**)
- ◆ Pharmaceutical companies
 - One project agreed (**PRINTO data property**, data collected for EMA/FDA company requirements)
 - Two under discussion

Funding: a negative history

- ◆ ...3 applications to FP7 for MTX comparator within the framework of the paediatric priority list of off-patent drugs
 - 2010 total score 9,5/15 with a threshold of 10/15 (lack of industrial partner)
 - 2011 total score 2/15 (out of the scope of the call)
 - 2012 (two step procedure): rejected for lack of scientific significance



Proposal in a nutshell

- ◆ One single international JIA registry for **MTX±biologics**
- ◆ Combination of existing registries for safety
 - non-profit (Germany, UK, France, Italy, Netherlands, etc)
 - for profit
- ◆ Establishment of a **common platform** for an active pharmacovigilance system
- ◆ Main goals: **safety** and effectiveness (e.g. erosions, efficacy, remission, retention on treatment)