

Adverse Drug Reaction Research in FP7 Health Theme

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Adverse drug reactions present a major public health burden

It is estimated that ADR cause

- 5% of all hospital admissions
- 197000 deaths per year in the EU
- Total societal cost of €79 billion in the EU





Adverse drug reaction research in FP7

FP7 Health Theme

- Specific ADR topics based on EMA's priority areas
 - Scientific evidence for post-authorisation risk assessment
- Topic on patient stratification and pharmacogenomics approaches in WP 2011
 - ➤ New biomarkers to distinguish responders and nonresponders and those at high risk for ADR

Innovative Medicines Initiative (IMI)

Tools and methodologies, education and training



Funded Projects FP7 Health Theme

Acronym	Title	Coordinator / Website	Drugs studied
ADDUCE	Attention Deficit Hyperactivity Disorder Drugs Use Chronic Effects	School of Pharmacy, University of London adhd-adduce.org	Methylphenidate
ARITMO	Arrhythmogenic potential of drugs	Erasmus Medical Center www.aritmo- project.org	Antipsychotics, anti-infectives (antibacterials, antimycotics and antivirals) and H1-antihistamines
EUROmediCAT	EUROmediCAT: Safety of Medication use in Pregnancy in Relation to Risk of Congenital Malformations	UNIVERSITY OF ULSTER euromedicat.eu	New antiepileptics, insulin analogs, SSRI antidepressants, and antiasthmatics



Funded Projects FP7 Health Theme

Acronym	Title	Coordinator / Website	Drugs studied
PHARMACHILD	Long-term PHARMacovigilance for Adverse effects in Childhood arthritis focussing on Immune modulatory drugs	University Medical Center Utrecht www.printo.it/Pharmachild/	Immune modulatory drugs
sos	Safety Of non-Steroidal anti-inflammatory drugs	Erasmus Medical Center www.sos-nsaids-project.org	Traditional nonaspirin, nonsteroidal anti- inflammatory drugs (tNSAIDs) and cyclo- oxygenase II inhibitors (coxibs)
STOP	Suicidality: Treatment Occurring in Paediatrics	University College London, Institute of Child Health www.stop-study.com	Risperidone in conduct disorder; fluoxetine in depression, and montelukast in bronchial asthma

Research and Innovation



Funded Projects FP7 Health Theme

New projects launched in 2011

Acronym	Title	Coordinator	Drugs studied
CARING	Cancer risk and insulin analogues	Utrecht University	Insulin analogues
SAFEGUARD	Safety evaluation of adverse reactions in diabetes	Erasmus Medical Center	Biguanides, sulfonamides, urea, alpha- glucosidase inhibitors, thiazolinones, DDP-4, others
ASTRO-LAB	Assessment of safety of LABAS in asthma in routine care by combining health-care databases and direct patient follow-up	Université Lyon 1 Claude Bernard	Long-acting beta-agonists (LABAs)
EPOCAN	Gaining sage on the Epoetins' saga: assessing long term risks and advancing towards better Epoetin driven treatment modalities	Tel-Aviv University	Epoetins



Commission

Funded Projects

Projects funded in patient stratification and pharmacogenomics topic, WP 2011

Acronym	Title	Coordinator
Predictive Genomic Biomarkers Methods for Combination Bevacizumab (Avastin) Therapy		ROYAL COLLEGE OF SURGEONS IN IRELAND
CRESTAR	Pharmacogenomic biomarkers as clinical decision making tools for clozapine treatment of schizophrenia	KING'S COLLEGE LONDON
Epilepsy Pharmacogenomics: delivering biomarkers for clinical use		University College London www.epipgx.eu





NEXT CALL FOR PROPOSALS EXPECTED TO BE OPENED IN JULY 2012

FP7 Health - 2013 orientation paper available on Cordis:

http://cordis.europa.eu/fp7/health/home_en.html





Indicative topic for ADR

HEALTH.2013.4.2-2: Adverse drug reaction research.

- Long term safety of antipsychotic medication in patients with dementia
- Genetic causes of adverse drug reactions: angiotensin-converting enzyme inhibitors and angioedema, and statin-induced myopathy
- Long-term adverse skeletal effects of bisphosphonates

Min. 15 % EU Contribution to SME(s)

Based on working document, refer to final published call text





Upcoming Call in the FP7 Health

- Two-stage submission and evaluation
- Expected to open in mid-July 2012
- Stage-1 short outline proposals
- Indicative closing date 2 October 2012 (stage-1)
- Successful applicants will be invited to submit full proposals





Advice for applicants (1)

- Analyse the Work Programme carefully topic, introduction and call fiche
- Follow the instructions in the Guide for Applicants
- Apply if you see a clear opportunity that fits your strategy
- Choose your partners carefully they have to be appropriate for the tasks
- Appropriate study design, data processing and statistical analysis of results are important





Advice for applicants (2)

- Address ethical issues, both in the proposed methodology and the possible implications of results
- Managing the project yourself is a major task it needs to be properly planned & resourced
- Use support structures for preparing your proposal:
 - National Contact Points (NCPs)
 http://cordis.europa.eu/fp7/ncp_en.html
 - Fit-for-Health
 www.fitforhealth.eu





Horizon 2020: The next Framework Programme for research and innovation

Proposed budget: €80bn, a 46% increase compared to FP7

Europe needs cutting edge research and innovation Essential to ensure competitiveness, growth and jobs Vital to tackle pressing societal challenges 3% of GDP invested in R&D: headline target of Europe 2020





Horizon 2020: Health, Demographic Change and Wellbeing Challenge – proposal ~ €8.5bn

Understanding the determinants of health (including environmental and climate related factors), improving health promotion and disease prevention;

Developing effective screening programmes and improving the assessment of disease susceptibility

Improving surveillance and preparedness

Understanding disease

Developing better preventive vaccines

Improving diagnosis

Using in-silico medicine for improving disease management and prediction

Treating disease

Transferring knowledge to clinical practice and scalable innovation actions

Better use of health data

Improving scientific tools and methods to support policy making and regulatory needs

Active ageing, independent and assisted living

Individual empowerment for self-management of health

Promoting integrated care

Optimising the efficiency and effectiveness of healthcare systems and reducing inequalities through evidence based decision making and dissemination of best practice, and innovative technologies and approaches.





Next steps

Ongoing: Parliament and Council negotiations on the

basis of the Commission proposals

Ongoing: Parliament and Council negotiations on EU

budget 2014-2020 (including overall budget

for Horizon 2020)

Mid 2012: Final calls under 7th Framework Programme

for research to bridge gap towards Horizon

2020

Mid 2013: Adoption of legislative acts by Parliament

and Council on Horizon 2020

1/1/2014: Horizon 2020 starts, launch of first calls





Further information

EU research

http://ec.europa.eu/research

EU Health Research

http://ec.europa.eu/research/health/index_en.html

Seventh Framework Programme

http://ec.europa.eu/research/fp7

IMI

http://www.imi.europa.eu/

Information on research programmes and projects

http://cordis.europa.eu/

Information requests

http://ec.europa.eu/research/enquiries/

