Future of Diabetes Research in Europe JDRF Perspective

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Future of Diabetes Research: Lessons from Today (1)

- Life with T1D is a major daily challenge
- 24 hrs, 7 days, 365 days/year challenge of testing blood sugars, monitoring diet, dosing insulin
- Even with extensive effort, cannot achieve optimal glucose control
- Constant fear of low blood sugars and its accompanying morbidity and mortality
- Risk for long-term diabetic complications, which are devastating in their impact to individuals, families, and society



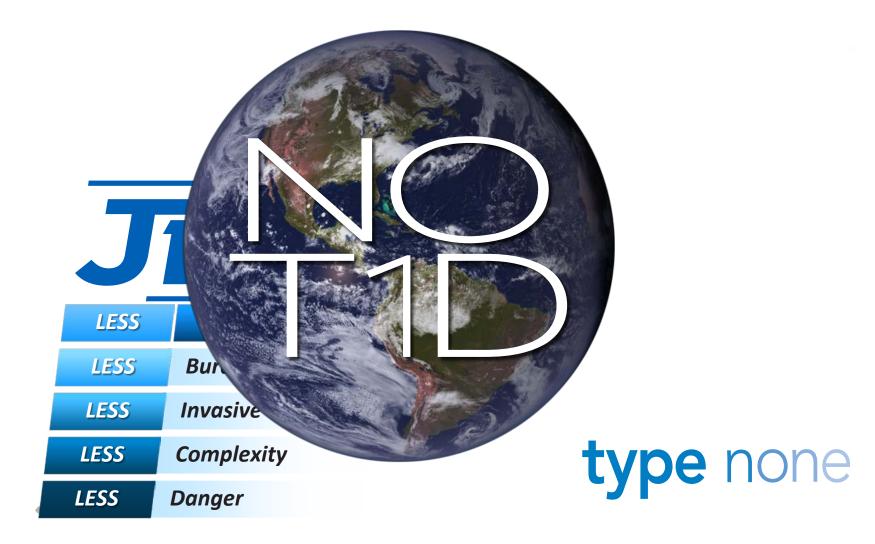


Future of Diabetes Research: Lessons from Today (2)

- Need to hear the voice of the patient and patient's family deliver impact that addresses daily and long-term needs
- Need devices and therapies to decrease the daily burden, uncertainty, danger, and fear of living with T1D or insulindependent T2D
- Need to prevent low blood sugars and long-term complications
- Need a Cure
- Need to prevent the disease in the next generation
- Need integrated, high level investment and cooperation in research from all stakeholders (Member States, Industry, Organization, EC, and Patients)





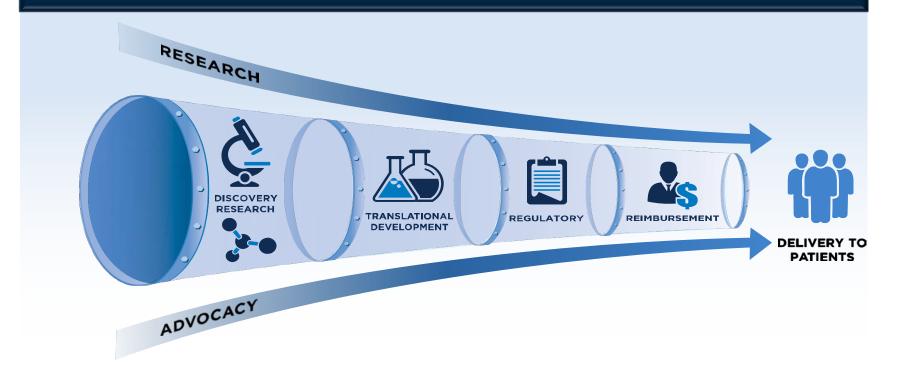






JDRF is a virtual R&D organization

- Focused on advancing a pipeline of Research Projects
- Which deliver a continuum flow of therapeutic opportunities







JDRF Partners with Industry Worldwide

to Translate and Deliver Therapeutic Solutions to Patients

- 57 contracts/collaborative partnerships with 42 companies
- Committed ~\$130M JDRF research funding





Representative Partners

















JDRF Priority T1D Therapies





Artificial Pancreas



Smart Insulin



Prevention



Restoration



Complications

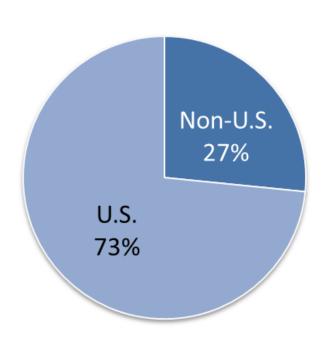




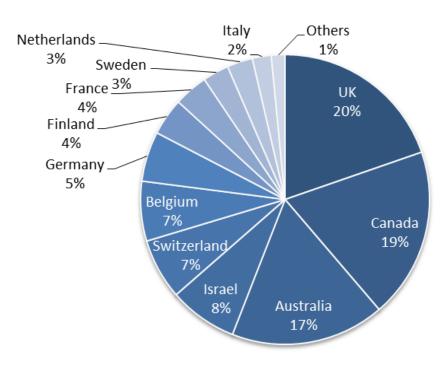


JDRF is a Global Research Organization

2013 Research Funding by Country



U.S. vs Non-U.S. 2013 Funding



Non-U.S. 2013 Funding





JDRF is a Patient Organization with Key Assets as a Partner in Europe:

- 1 High Level Patient and Public Involvement (PPI)
 - JDRF Board and Board Committees are individuals and family members affected by T1D
 - Research funding decisions by Board committee
 - Volunteer-led Online Diabetes Support Team (ODST)
 - T1D Clinical Trials Connection

 Matching people with T1D with appropriate clinical trials
 - Several tools and supports for people living withT1D:









JDRF is a Patient Organization with Key Assets as a Partner in Europe:

High Level Patient and Public Involvement (PPI)







March 11th 2014 – Over 60 adults and children that live with type 1 diabetes descended on UK Parliament to explain to MPs the impact the condition has on people's lives and encourage increased spending on research





JDRF is a Patient Organization with Key Assets as a Partner in Europe:



Already participating in IMI / EC supported Programs





















A bioartificial pancreas to treat type 1 diabetes













JDRF is a Patient Organization with Key Assets as a Partner in Europe:

3 Further Developing Partnering and Research Support

Worldwide experience

Partnering with







- Convening high level international scientific workshops / meetings / symposia (25 organized in 2013)
- Management of International Consortia

 JDRF Microbiome Consortium, JDRF Immune Memory Consortium, JDRF Biomarker Working Group,
 JDRF Diabetic Nephropathy Genetics Consortium, JDRF-ITN T1D Preclinical Combination Therapies
 Consortium, JDRF Resistors and Progressors of Complications Consortium, JDRF nPOD, JDRF nPODViral Working Group, JDRF nPOD-Transplantation Working Group
- Strong links and collaboration with NIDDK international oriented Special Diabetes Program (TEDDY, TrialNet)
- TrialNet Funded by NIH and JDRF (funds international sites) for T1D risk screening, natural history, and T1D prevention trials



JDRF is a Patient Organization with Key Assets as a Partner in Europe:

- 4 Interfacing with Regulatory and Reimbursement Authorities
 - Interfacing with US FDA (Draft Guidance for Artificial Pancreas Systems, Encapsulation, Stem Cells, Prevention)
 - Public consultation to European Community for improvement of EC Regulatory Directives (ex of Medical Devices, Clinical trial framework)
 - Public consultation to EMA for improvement of Guidelines
 Recombinant human insulin and insulin analogues, Insulin Biosimilar specific guidelines, xenografts
 - Addressed pricing and reimbursement strategy for Artificial Pancreas medical device market access
 - Interfacing with Government bodies







Drive Change in Delivery of Medical Practice

