

Objective ICT-2007.5.2: Advanced ICT for Risk Assessment and Patient Safety

Target outcome:

1. **Advanced computerised adverse event systems:** Identification of common patterns in safety-relevant events beyond merely reporting nosocomial infections and/or Adverse Drug Events (ADE). These alerting and management support systems must incorporate new tools for prediction, detection and monitoring of adverse events and other relevant events impacting on patient safety. The solutions should be based on innovative data mining, integration techniques of existing databases and electronic health record systems, decision support systems, intelligent medication delivery (e.g. RFID-based), and adverse event reporting systems. Emerging technologies like semantic mining and semantic information integration should be validated on multimedia databases. Each proposal will include a validation scheme leading to quantitative benefits.
2. **New risk prediction for large scale events:** Investigation of all aspects related to ICT research in new risk prediction, assessment and management tools for preparation, surveillance, support and intervention in case of large-scale adverse health events. All relevant stakeholders in Europe and worldwide will be involved. This will complement the efforts made by Directorate General Health and Consumer Protection's Health 41 of 127 Emergency Operations Facility (HEOF) which uses a set of ICT tools to facilitate the spread of information concerning health related crisis²⁴.
3. **Collaboration with Latin America countries:** Following previous and existing activities such as @Health project and @LIS programme (Alliance for the Information Society)²⁵, a research project (SICA, Specific International Cooperation Action) will aim at establishing collaboration between EU constituency and their Latin America counterparts in the area of patient safety. The proposal should build cooperation, transfer of technology and demonstration activities in the area of alert and decision support systems based on Electronic Health Records. The proposal should focus on the use of EU standards in this area.

Expected impact:

- World-leading levels of patient safety with fewer medical errors and optimised medical interventions resulting in savings of lives and resources.
- Early alerts and improved management of large scale health-related crises through effective and automated risk prediction, assessment and management.
- Accelerated and wider adoption of future electronic health record systems.
- International cooperation between EU constituency and the Latin America counterpart. Uptake of EU standards in the electronic Health Records area in Latin America.

Funding schemes

a): CP; b): CSA (Up to one CSA of maximum 1 year duration); c) CP (STREP only / SICA)

Indicative budget distribution¹²

30 M€:

a): CP 26 M€ of which a minimum of 9 M€ for IP and a minimum of 9 M€ for STREP

b): CSA: 1 M€

c) CP: 3M€

Call

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