

STREP project funded by the Future and Emerging Technologies arm of the IST programme FET Open scheme

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⌘ 1,67 million with an EC contribution of  
⌘ 1,48 million

\* Project start and duration:  
January 1st 2004, with a duration of 30 months

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**Integrating formal methods  
in the development process of  
medical guidelines and protocols**

**PROTOCOLURE II - IST-FP6-508794**

[www.protocure.org](http://www.protocure.org)



Objectives	Expected results
Support guidelines developers in the health-care profession in the construction and maintenance of high-quality and up-to-date living guidelines and protocols.	<ol style="list-style-type: none"> <li>1. A prescriptive process model for the integrated and iterative development of formal and informal versions of guidelines</li> <li>2. A set of software tools which supports this development process</li> <li>3. A library of guideline components, in the form of re-usable patterns</li> <li>4. A demonstration guideline, which has been developed according to the above expected results</li> </ol>
Work packages & tasks	Participants
<p><b>I. Process model</b></p> <p>Elaborate a new model for a rigorous guideline development process</p> <p><b>II. Development-Modelling</b></p> <p>Select a reference guideline</p> <p>Define adequate representation formats for (informal and formal) guidelines</p> <p>Facilitate the modelling of guidelines</p> <p><b>III. Development-Validation/Testing</b></p> <p>Facilitate the validation of guidelines with the support of an interpreter</p> <p>Study adequate techniques to the validation/testing of guidelines, and apply them to the reference guideline</p> <p><b>IV. Development-Verification</b></p> <p>Facilitate the rigorous verification of guidelines using theorem proving and model-checking</p> <p>Apply these techniques to the verification of selected properties in the reference guideline</p> <p><b>V. Deployment</b></p> <p>Provide basic support for the deployment of medical guidelines</p> <p><b>VI. Maintenance</b></p> <p>Ease the validation and verification of continuously evolving medical guidelines</p>	<p>- <b>Universitat Jaume I - UJI</b> [Castellón, Spain]</p> <p>- <b>Dutch Institute for Healthcare Improvement - CBO</b> [Utrecht, The Netherlands]</p> <p>- <b>Fundació Biblioteca Josep Laporte - FBJL</b> [Barcelona, Spain]</p> <p>- <b>Katholieke Universiteit Nijmegen - KUN</b> [Nijmegen, The Netherlands]</p> <p>- <b>Vienna University of Technology - TUW</b> [Vienna, Austria]</p> <p>- <b>University of Augsburg - UA</b> [Augsburg, Germany]</p> <p>- <b>Vrije Universiteit Amsterdam - VUA</b> [Amsterdam, The Netherlands]</p>