

Project N°507424  
Natural Language Based Decision Support in Neuro-rehabilitation  
**ALLADIN**

SPECIFIC TARGETED RESEARCH PROJECT  
PRIORITY 2.3.2.11

***Deliverable 6.1:***

***Clinical validation Deliverable:  
User acceptance and satisfaction inquiry***

*List of Partners:*      Arteveldehogeschool (B)  
Language and Computing NV (B)  
Budapest University of Technology and Economics (HU)  
Univerza v Ljubljani, Fakulteta za Elektrotehniko (SL)  
Zenon SA, Robotics and Informatics (EL)  
University Campus Bio-Medico (I)  
Multitel ASBL (B)  
Trinity College Dublin (IRL)  
Országos Orvosi Rehabilitációs Intézet (HU)  
Scuola superiore di studi universitari e di perfezionamento Sant'Anna (I)

<i>Document identifier:</i>	D6.1_final.doc
<i>Version:</i>	1.0
<i>Date:</i>	20/04/07
<i>Organisation:</i>	University of Dublin, Trinity College
<i>Deliverable:</i>	6.1
<i>Milestone:</i>	M39
<i>Workpackage:</i>	6
<i>Task:</i>	6.1
<i>Dissemination:</i>	Public
<i>Nature</i>	Report
<i>Authors:</i>	Emma Stokes, AC Varghese, Eleanor O'Grady,

<b>1</b>	<b>Executive Summary &amp; Introduction .....</b>	<b>4</b>
	1.1 Executive Summary .....	4
	1.2 Introduction .....	4
	1.2.1 General .....	4
	1.2.2 User interface: Evaluation & Satisfaction survey .....	4
	1.2.3 Content and structure of the document .....	5
	1.2.4 Use of the deliverable.....	5
<b>2</b>	<b>Project Synopsis.....</b>	<b>6</b>
	2.1 Project details .....	6
	2.2 Participating partners.....	6
	2.3 Centres participating in the Validation of Alladin software .....	6
	2.4 Aims and objectives of the ALLADIN project .....	6
	2.6 The ALLADIN Diagnostic Device (ADD).....	7
<b>3</b>	<b>Ethical Issues .....</b>	<b>7</b>
<b>4</b>	<b>Location and Training .....</b>	<b>7</b>
<b>5</b>	<b>Software Installation and Integration with HIS.....</b>	<b>8</b>
	5.1 ACSS/HIS link configuration.....	8
	5.2 Various functions on the ACSS .....	9
	5.2.1 Login Window.....	10
	5.2.2 Patient profile .....	10
	This window allows the user to enter and edit patient demographics, clinical notes and comments. However only the system administrator or the principal investigator has the right to delete a patient. (fig 5-3) .....	10
	5.2.4 Clinical description (Natural Language).....	11
	5.2.5 NL Query tool .....	13
	5.2.5 DICOM (Digital Imaging and Communications in Medicine) .....	13
<b>6</b>	<b>The Validation Study .....</b>	<b>14</b>
	6.1 The Questionnaire .....	14

6.2 Pilot Study .....	17
6.3 Validation Study.....	19
6.3.1 Participants .....	19
6.3.2 Protocol .....	19
6.3.3 Duration of the trial .....	20
6.4 Results .....	20
6.4.1 Pre-requisite and training .....	21
6.4.2 User interface & navigation .....	22
6.4.3 HIS Link.....	23
6.4.4 Query tool.....	24
6.4.5 PDA & Natural Language .....	25
6.4.6 Overall Satisfaction .....	26
6.4.7 General pattern of response.....	27
6.4.7 Suggestions for improvement.....	27
6.5 Conclusion.....	28
<b>Appendix 1 .....</b>	<b>30</b>
<b>Appendix 2 .....</b>	<b>31</b>
<b>Appendix.3 .....</b>	<b>33</b>
<b>6.6 References .....</b>	<b>81</b>