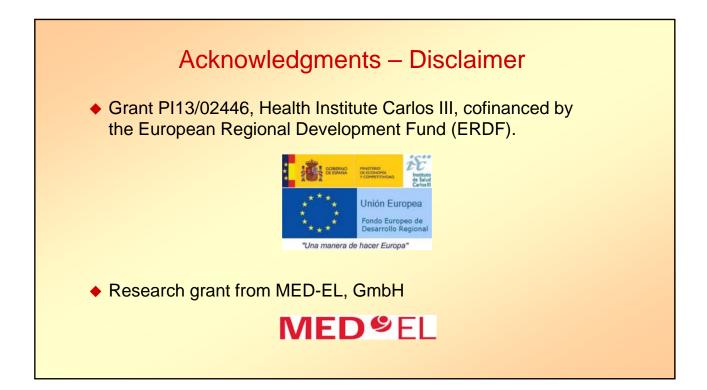
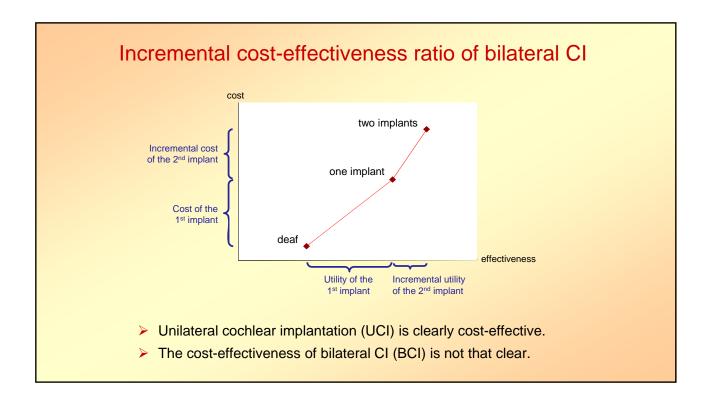
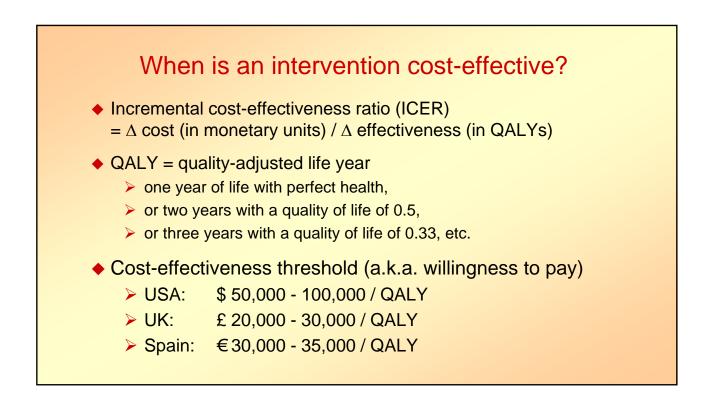
CI 2015 Symposium Washington DC. October 15-17, 2015

Cost-effectiveness of pediatric bilateral cochlear implantation in Spain

Jorge Pérez-Martín - Francisco Javier Díez UNED, Madrid, Spain www.ia.uned.es/~fjdiez www.cisiad.uned.es

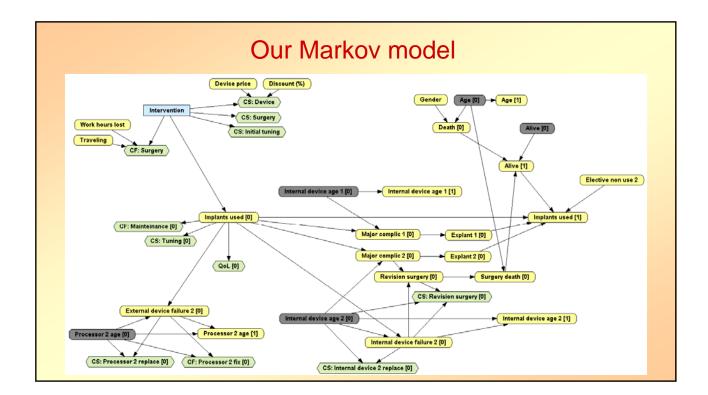


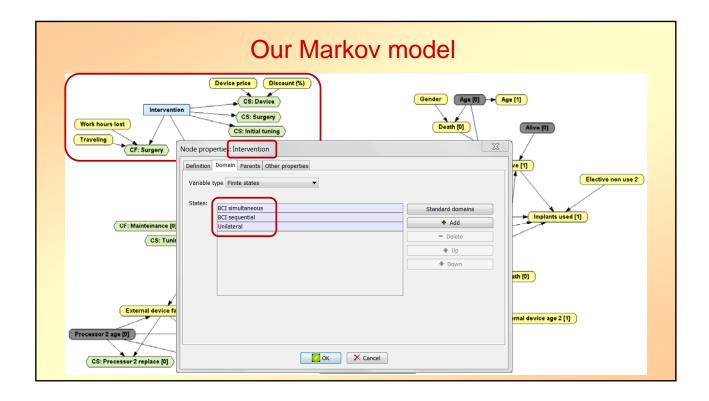


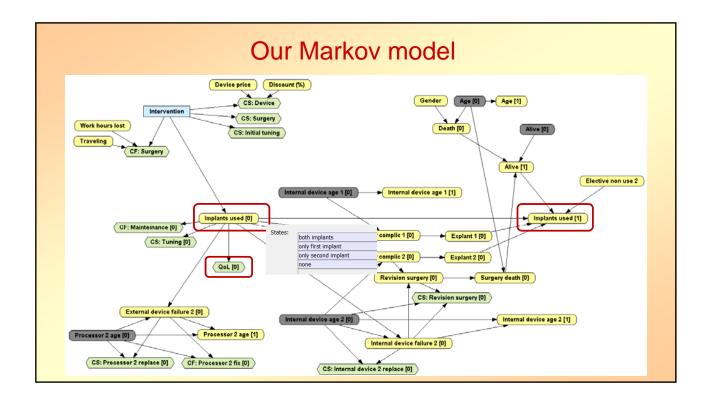


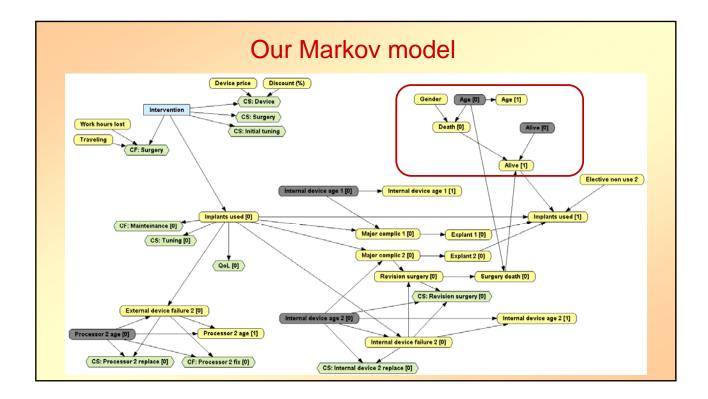
 Our study for measuring the quality of life Visual analog scale (VAS) 									
	One cochlear implant	Being dead	86	Perfect health	-	+			
	Two cochlear implants	Being dead		1 Perfect health	-	+			
♦ Tin	 Time trade-off (TTO) 								
I think the	I think that living for years with perfect audition is equivalent to living for 20 years with one CI .								
I think that	I think that living for years with two CIs is equivalent to living for 20 years with one CI .								
						Come poster a	see ou at 4:30p		

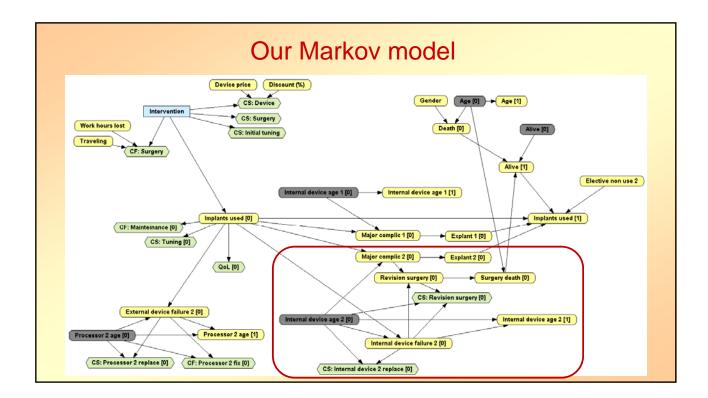
Study	Target	Informants	Method	Increase in qualit of life
Summerfield et al. [2002]	adults	experts	тто	0.031
Summerfield et al. [2006]	adults	bilaterally implanted patients	HUI-3	0.015 (initial) 0.030 (adjusted)
Bichey and Miyamoto [2008]	adults and children	bilaterally implanted patients (or their parents)	HUI-3	0.11
Lovett [unpublished]	children	parents of bilaterally implanted children	VAS	0.33
Lovett et al. [2010]	children	parents of unilaterally and bilaterally implanted children	VAS	0.04
Lovett et al. [2010]			HUI-3	-0.003
Summerfield et al.	children	experts, students and parents of children with other disabilities	VAS	0.06
[2010]			TTO	0.05
Sparreboom et al. [2012]	children	bilaterally implanted children	HUI-3	0.04
Chen et al., 2014	adults	doctors, implanted adults	HUI-3	0.03
Härkönen et al. [2015]	adults	bilaterally implanted patients	15D	0.03
	5] children	general populations (students)	VAS	0.25
Artaso, Díez [2015]			TTO	0.10

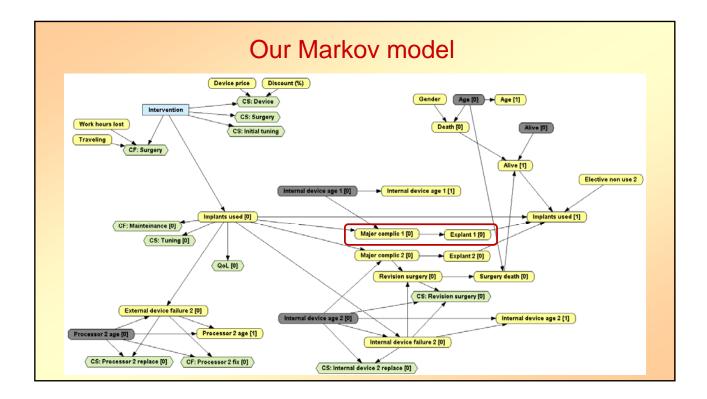


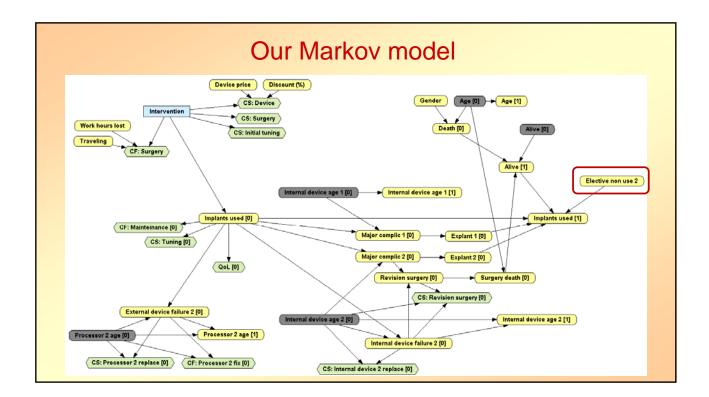


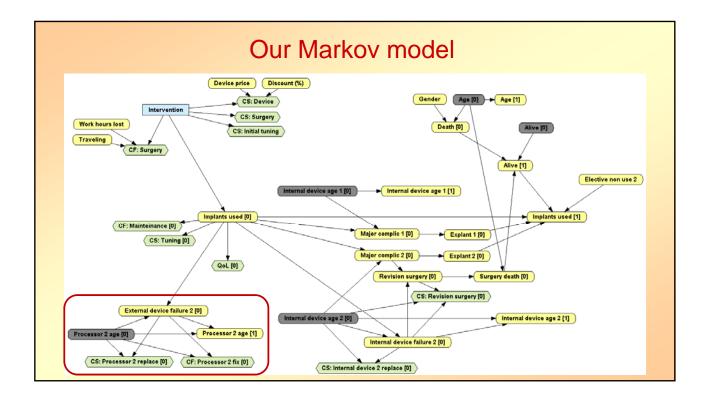






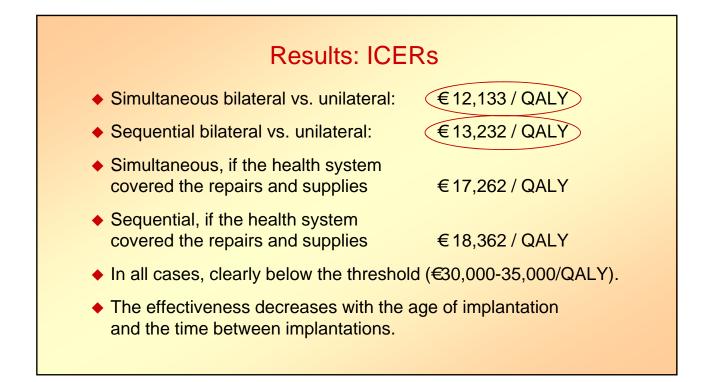




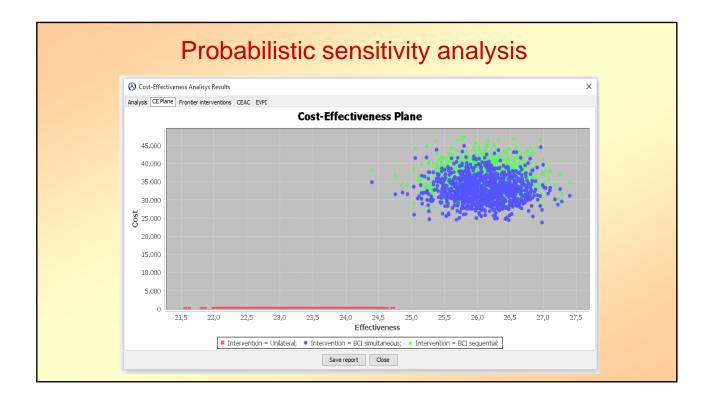


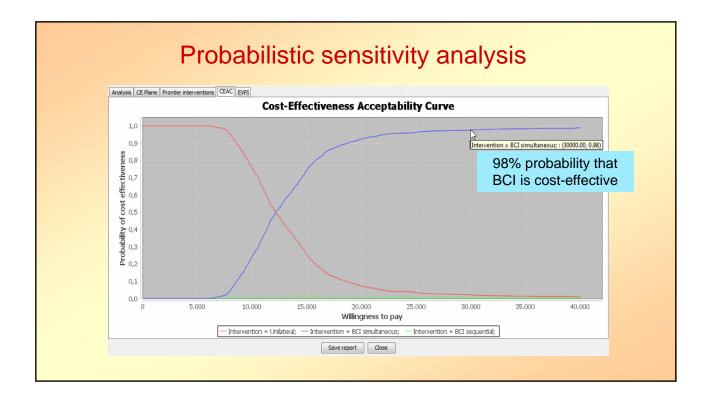
Who pays for the costs of CI in Spain?

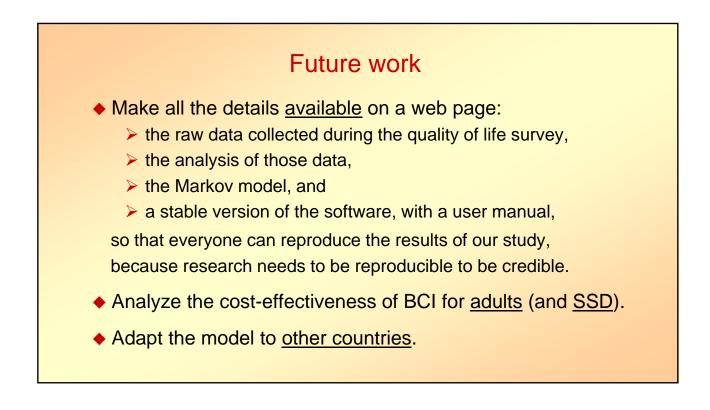
- Initial costs (assessment + device + surgery): the health system
- Failure of the internal components
 - first 10 years: manufacturer's warranty
 - after the 10th year: health care system
- Failure of the external processor
 - first 2 years: <u>manufacturer's</u> warranty
 - 3rd to 7th year: <u>user</u> or his/her family (usually repaired)
 - > after the 7th year: if fails, replaced by the health system
- Microphone: if fails after the 4th year, replaced by the health system
- Coil: if fails after one year of use, replaced by the health system
- Cables and batteries: paid by the <u>user</u> or his/her family.



Study	Country	Source of utilities	Population	ICER
Summerfield et al. [2002]	UK	own data	adults	£61.734/QALY
Summerfield et al. [2003]	UK	Summerfield et al., 2002	adults	£100.000/QALY
Summerfield et al. [2006]	UK	own data	adults	£102.500/QALY
Cochlear Europe Ltd.	UK		adults	£32,909/QALY
[submitted to NICE]		projection of data	children	£39,049/QALY
	UK		adults	£49,559/QALY
Bond et al. [2007, 2009]		Summerfield et al., 2006	children	£40,410/QALY
	Spain		adults	€53,018/QALY
L-Pedraza Gómez et al. [2007]		Summerfield et al., 2002	children	€44,199/QALY
Bichey and Miyamoto [2008]	USA	own data	adults and children	\$2,187/QALY
Summerfield et al. [2010]	UK	own data	children	£21,768/QALY
Chen et al. [2014]	Canada	own data	adults	\$55,020/QALY
Martín-Pérez, Díez [2015]	Spain	own data	children	€12,133/QALY







If you wish to know more details about this study or adapt it to your country please write to: <u>cochlear-implant@cisiad.uned.es</u>.

Thank you very much!