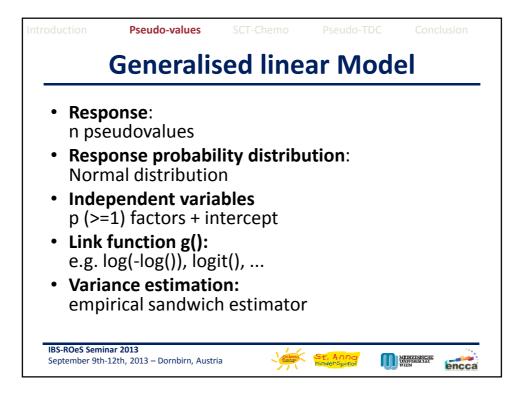
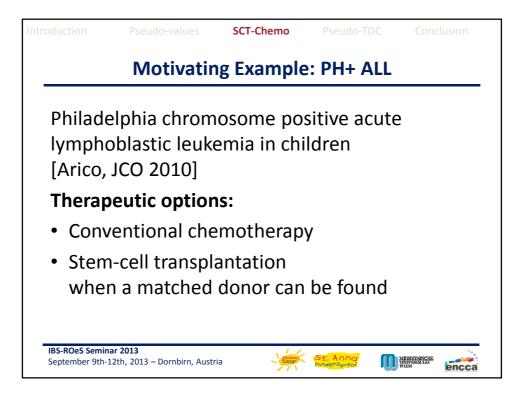


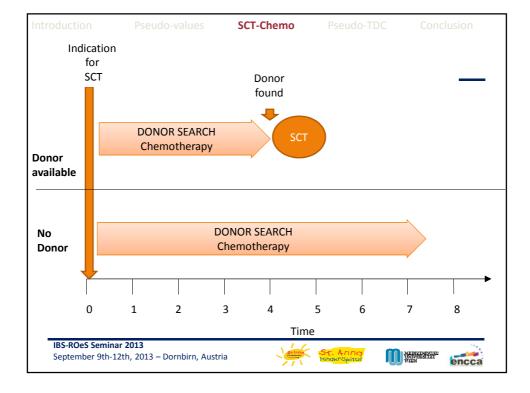
troduction	P	seudo-valu	es	SCT-Chem		seudo-TD		
	Fx:	ampl	e 1.	Pse	ohud	-Val	lies	
				1.50				
			Control		E)	perimenta	al	
		Pseudo-	Event-	Event	Pseudo-	Event-	Event	
		value	time		value	time		
		1.12	>5	0.00	1.09	4.17	0.00	
		0.54	0.11	0.00	-0.38	4.06	1.00	
		1.12	>5	0.00	1.12	>5	0.00	
		-0.33	3.73	1.00	0.70	1.61	0.00	
		-0.25	3.04	1.00	1.12	>5	0.00	
		-0.24	2.97	1.00	1.12	>5	0.00	
		1.12	>5	0.00	-0.07	1.37	1.00	
		0.92	2.95	0.00	-0.34	3.79	1.00	
		-0.07	1.31	1.00	1.12	>5	0.00	
	n	590			410			
	mean	0.485			0.605			
	min	-0.533			-0.607			
	max	1.117			1.117			
	KME	0.485			0.605			

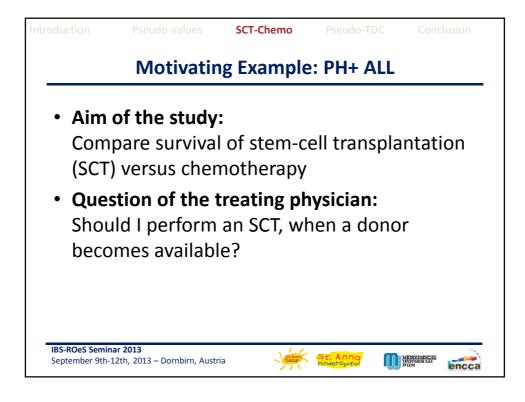
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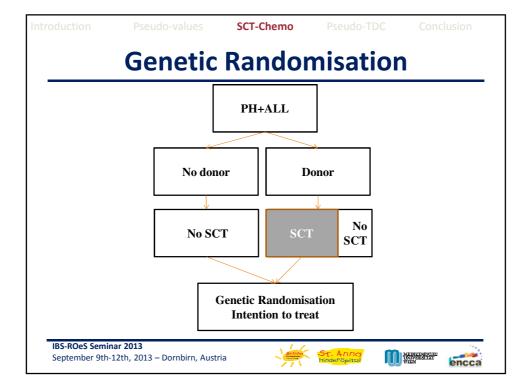


Parameter			p-value		95%	6 CI
Therapy	$\rightarrow H$	R	< 0.001	0.694	0.561	0.860
Intercept (Control)	5-	years p		0.485	0.438	0.530
Experimental	5-	years p		0.605	0.551	0.654
				2,00 -		
				Hazard ratio (32%CI) 1,00 - 0,50 -	I	
					• 0,83	0,6
				0,50 -		
				Ŧ	1	
				0,25 —		

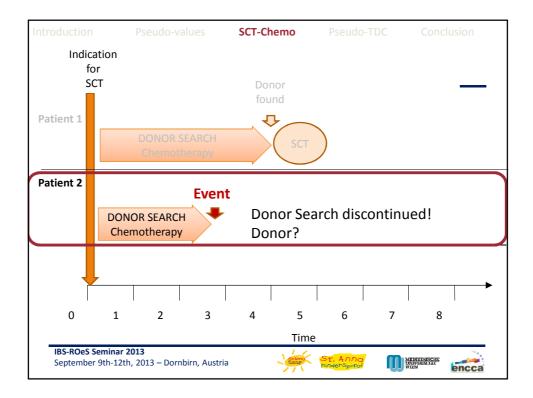


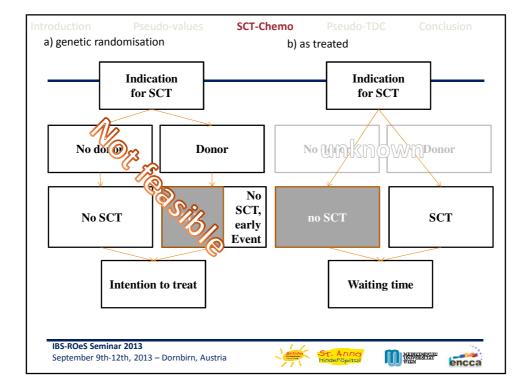


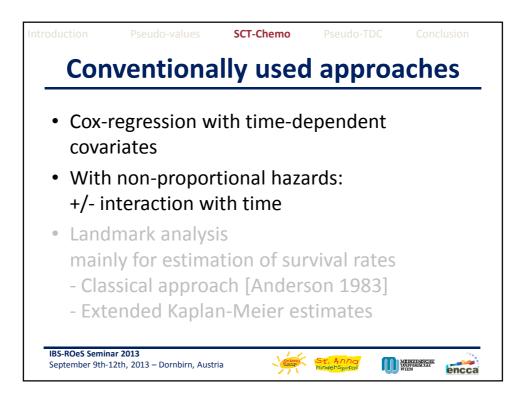


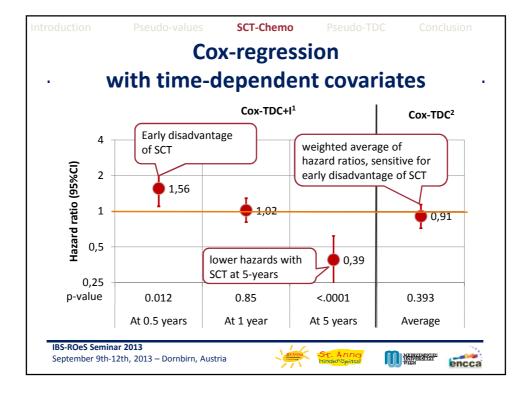


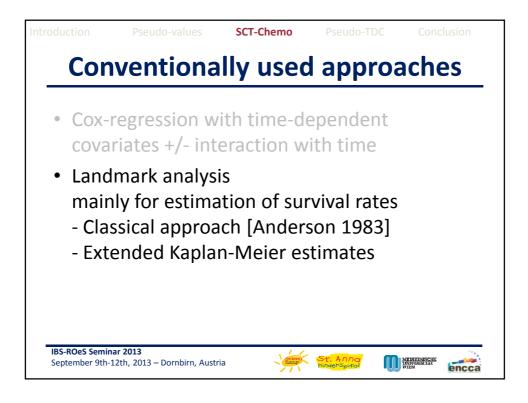
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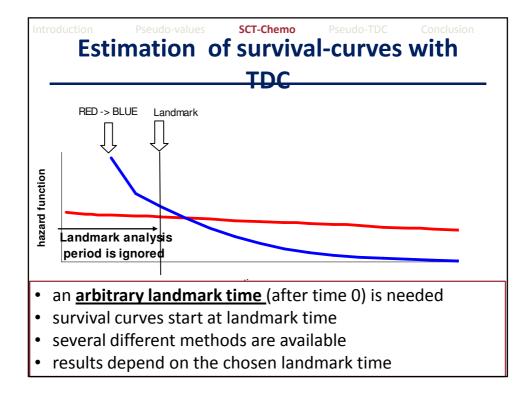


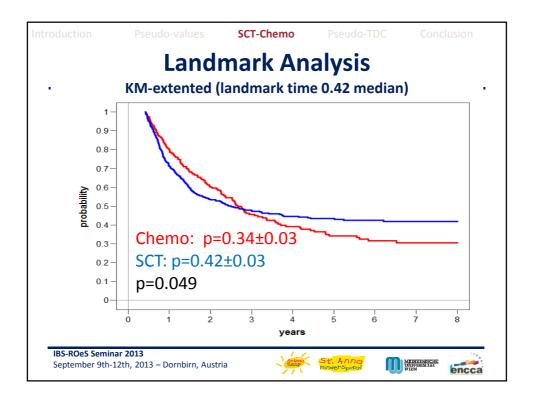


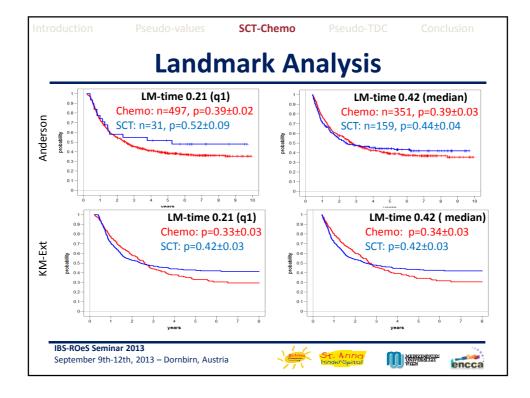




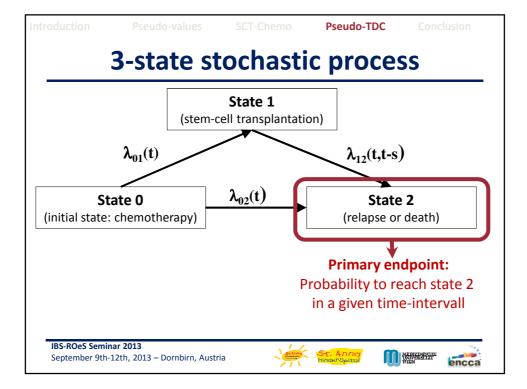


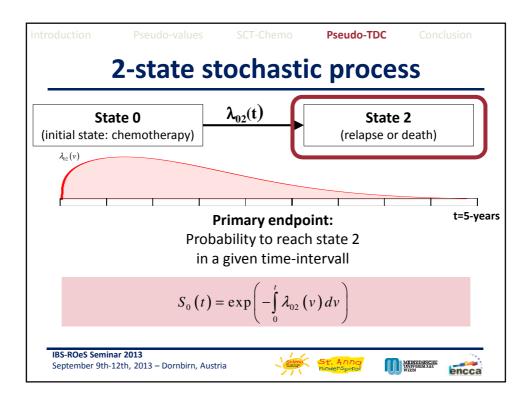


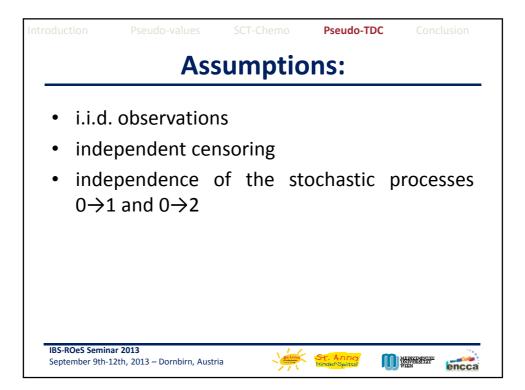


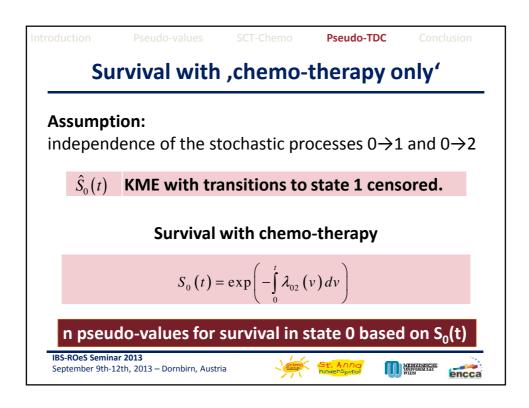


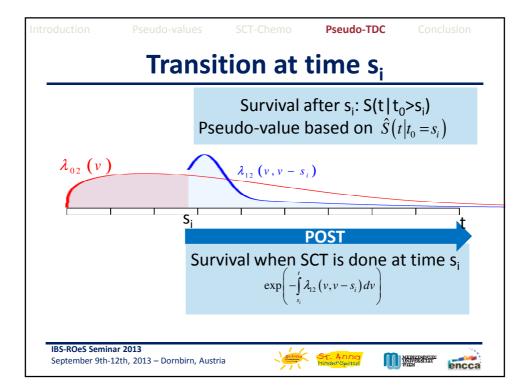
Problem	Cox	Pseudo	LM	novel
PH-assumption not needed	×	✓	?	
addresses long-term outcome	×	✓	√	Z
adjustment for waiting-time bias no arbitrary specification landmark-time needed	✓ ✓	×	✓ ×	Needeo
inclusion of covariates	∨	✓	×	ed
parameter estimates clear interpretation	~	~	×	

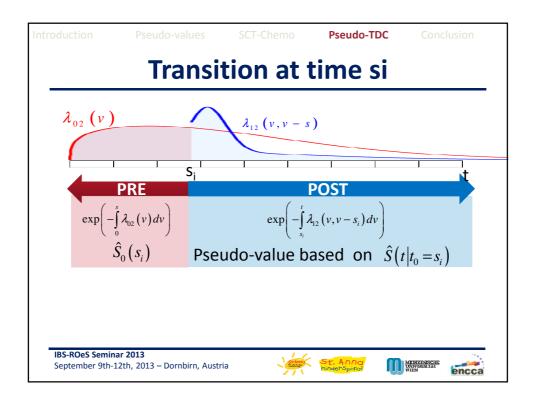


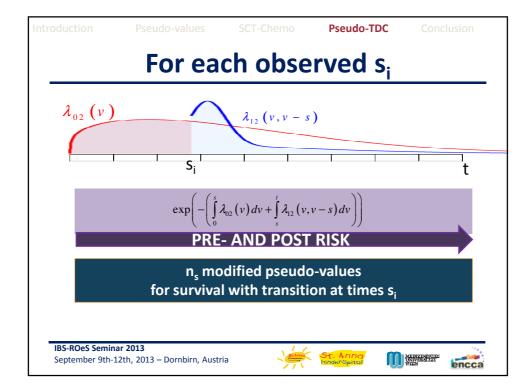


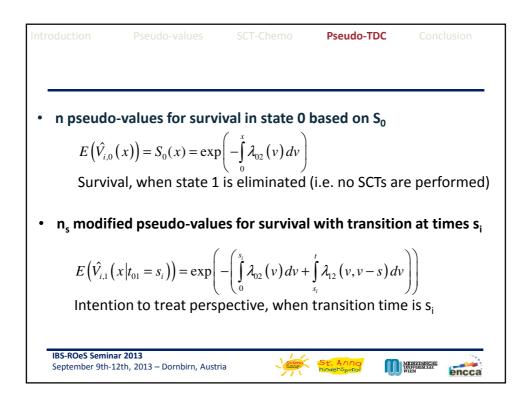


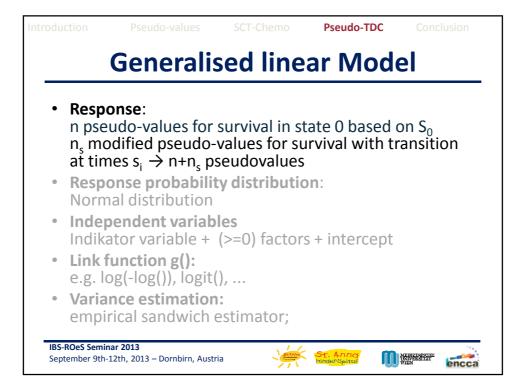


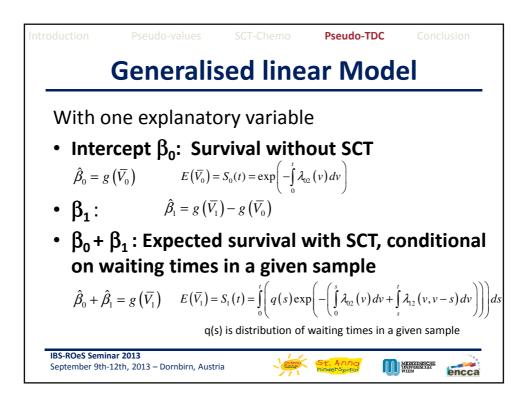


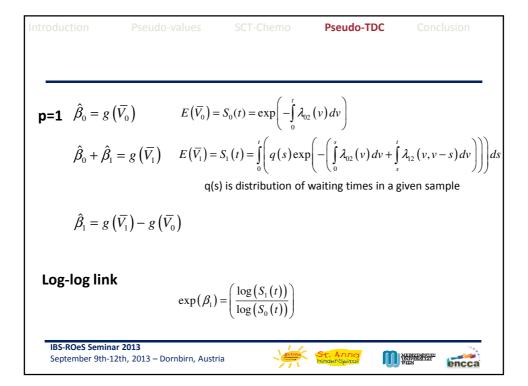


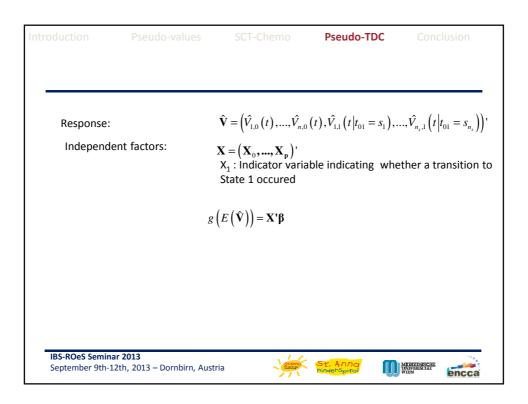


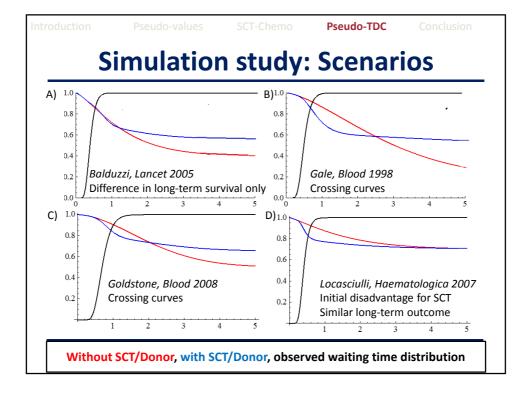


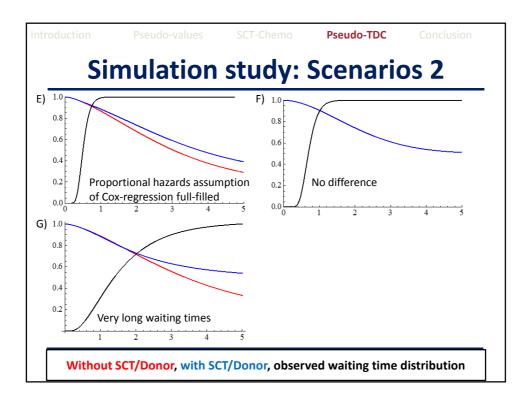




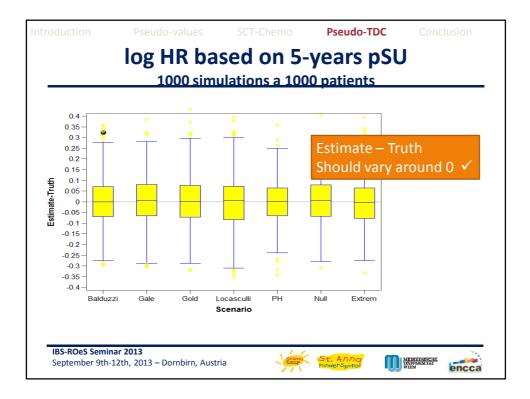




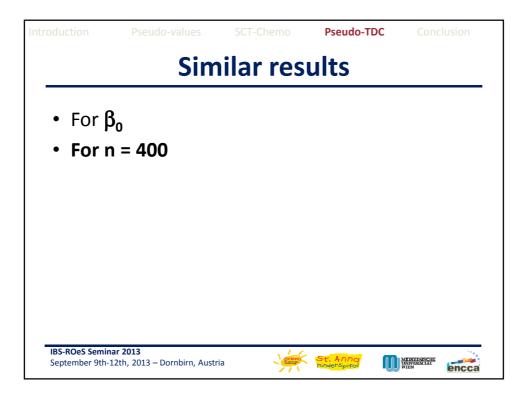


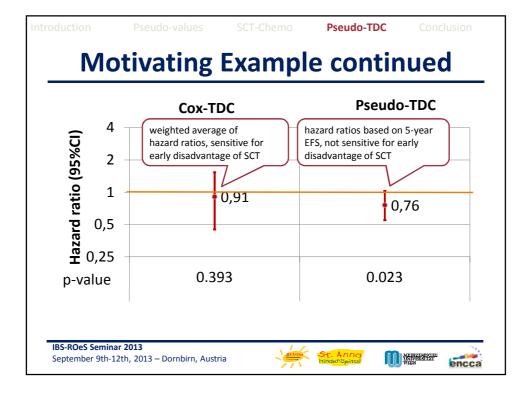


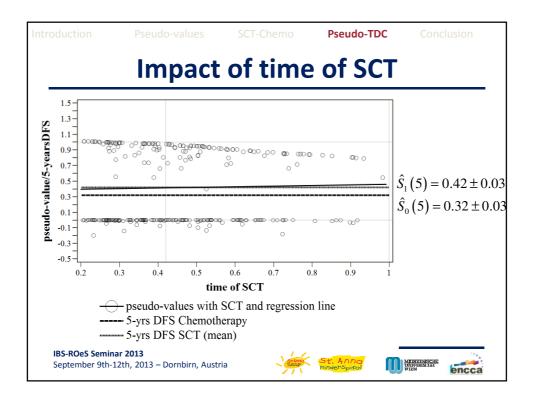
troduction	Pseudo-va	lues SCT-Ch	emo Pseudo-	TDC Conclusio	on
		Tru	ths		
S	cenario	TR	ITT		
	based on	In State 0 (no SCT) ¹	With transition 01 (SCT) ²	Susceptible (with Donor) ³	
A	Balduzzi	40%	56%	56%	
В	Gale*	29%	55%	55%	
С	Goldstone	51%	66%	66%	
D	Loscatiulli*	71%	71%	71%	
E	РН	29%	39%	39%	
F	No diff.	51%	51%	51%	
G	Late SCTs	33%	61%	54%	
IBS-ROeS Se September 9	minar 2013 9th-12th, 2013 – Dornt	pirn, Austria	St. Anno binderSpitol		cca



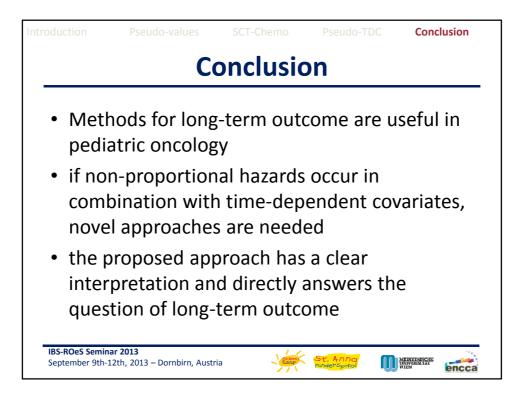
Introductio	on Pseudo-value	es S	CT-Chem	o Ps	eudo-TDC	Con	clusion		
	Coverage of novel approach								
	Scenario Coverage								
		Below		within		Above			
	based on	n	%	n	%	n	%		
Α	Balduzzi	23	2.3%	952	95.2%	25	2.5%		
В	Gale	30	3.0%	942	94.2%	28	2.8%		
С	Goldstone	25	2.5%	958	95.8%	17	1.7%		
D	Loscatiulli	26	2.6%	949	94.9%	25	2.5%		
_	Coverage	- 10	1 000	956	95.6%	25	2.5%		
	mulation study ~ 95% of			956	95.6%	18	1.8%		
95% co	onfidence-intervals need the true value	to includ	e the	957	95.7%	17	1.7%		
if	the new method works	correctly	-	Should	vary arou	und 959	% ✓		
	e S Seminar 2013 Iber 9th-12th, 2013 – Dornbirn,	, Austria	4	ST. A) WENERALS	encca		

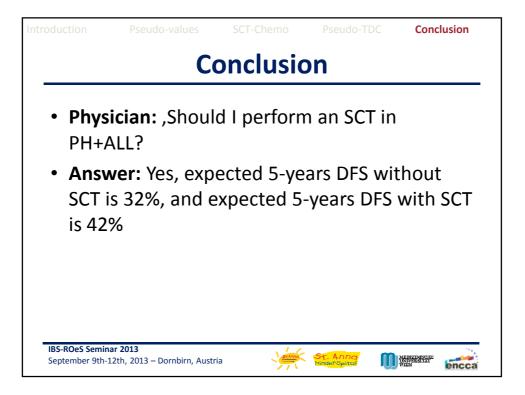






oduction	Pseudo-values	SCT-Chemo	Pseud	do-TD(С	Conclusio	n
Pr	operties	of nove	el ap	pr	oa	ch	
Problem			Cox	Pseudo	LM	novel	
PH-assum	otion not needed		×	\checkmark	?	✓	
addresses	long-term outcome		×	\checkmark	\checkmark	✓	
adjustmen	t for waiting-time b	ias	✓	×	\checkmark	\checkmark	
no arbitrai	ry specification land	mark-time neede	ed ✓	×	×	\checkmark	
inclusion o	of covariates		\checkmark	\checkmark	×	\checkmark	
parameter	estimates clear inte	erpretation	\checkmark	\checkmark	×	✓	
But need	s to choose a time-p	point for compari	ison of l	ong-ti	erm sı	urvival	
IBS-ROeS Semin September 9th-2	ar 2013 12th, 2013 – Dornbirn, Austr	ia 🦂	St. Ani hinderspir		€		ci





Introduction	Pseudo-values	SCT-Chemo	Pseudo-TDC	Conclusion					
		Thanks							
MEDIZI UNIVER WIEN	M. Mittlböck, PhD and H. Heinzl, PhD Section for Clinical Biometrics Medical University of Vienna								
encca	MG Valsecchi, PhD University of Milano-Bicocca								
Thanks for your attention									
	2013 – Dornbirn, Aust	ria	St. Anna Kinderspitol	MEDIZINISCHE WIEN ERGELTAT					