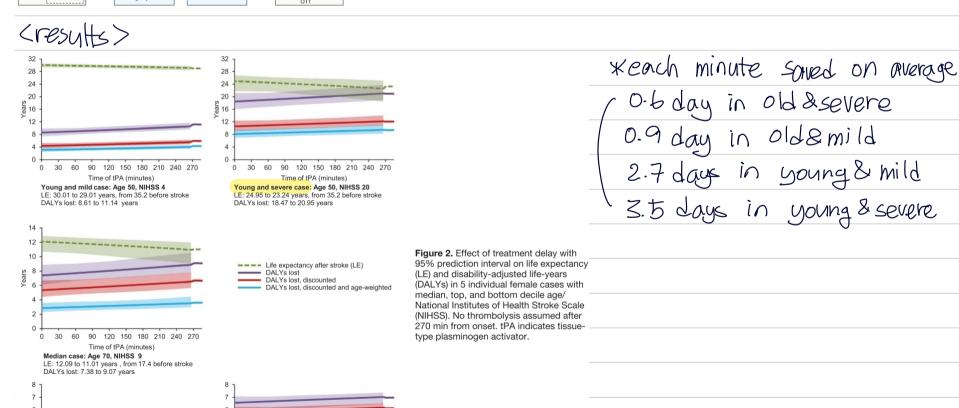
## Stroke Thrombolysis

## -Save a minute, save a day

3.11: to estimate the effect of speed in stroke thrombolysis over a patient's lifetime (+PA treatment)

<methods> Helsinti 1727 + Australia Natabase 531 Model Model outputs = 2258 Expected disability adjusted life-years lost compared to the general population observational cohort Expected life-time adjusted with disability caused by stroke General population life expectancy<sup>10</sup> 90% 80% ■mRS 6 ■mRS 5 60% mRS 4 50% mRS 3 40% ■mRS 2 30% mRS 1 Pooled analysis of tPA effect over time<sup>2</sup> 20% ■mRS 0 Base case Faster case **↑** Estimate of shift in mRS 0-1 and 6 over time



60 90 120 150 180 210 240 270

Time of tPA (minutes)

Old and severe case: Age 83, NIHSS 20
LE: 2.56 to 2.07 years, from 8.1 before stro
DALYs lost: 6.57 to 6.98 years

90 120 150 180 210 240 270

Time of tPA (minutes)

Old and mild case: Age 83, NIHSS 4
LE: 5.02 to 4.43 years, from 8.1 before stroke
DALYs lost: 3.66 to 4.46 years

< Discussion >				
-> a few minutes saved in delivering intravenous LPA translates to significant benefits equivalent to days, weeks, and even months of disability-free life				
	significant hone	Pits equivalent to	days, weeks, and en	ven months of
	disability-free	life		
5	MALE	5 FEMALE		
4 -		4		
Disability adjusted days saved per minute of faster treatment		3 <45 445-54	Figure 3. Relationship between disability- adjusted days gained per minute of faster treatment, age, and stroke severity. Base-	
ty adjuster oute of fas	*	2 × × 55-64	line stroke severity measured with the National Institutes of Health Stroke Scale (NIHSS) where higher scores indicate	
Disabili per mir	* * * *	1 - ** ** ** ** ** ** ** ** **	more severe stroke.	
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	NIHSS NIHSS NIHSS NIHSS NIHSS 0-4 5-9 10-14 15-19 20 +	NIHSS NIHSS NIHSS NIHSS 0-4 5-9 10-14 15-19 20 +		