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What is the risk of rupture of a growing aneurysm?

- Absolute risk was unknown
- Setting up an international multicenter study
- 5166 patients screened
- 312 adult patients included
- 329 aneurysms with growth ≥ 1 mm included
- Primary outcome: rupture

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This study provides a risk of rupture after growth of:

- 2.9% [95% CI 0.9-4.9] at 6 month
- 4.3% [95% CI 1.9-6.7] at 1 year
- 6.0% [95% CI 2.9-9.1] at 2 years

Moreover, aneurysm size, site, and shape are predictors for rupture after growth.

Triple-S (Size, Shape, Site) prediction model for estimating rupture risk after aneurysm growth for future patients

Size	Shape	Site								
		ICA			ACA/Pcom/Posterior			MCA		
		6-mo (%)	1-y (%)	2-y (%)	6-mo (%)	1-y (%)	2-y (%)	6-mo (%)	1-y (%)	2-y (%)
<7 mm	Regular	1.4	2.1	3.0	1.6	2.4	3.5	2.1	3.1	4.5
	Irregular	2.7	4.0	5.7	3.1	4.6	6.7	3.9	5.9	8.5
≥7 mm	Regular	2.5	3.8	5.5	3.0	4.4	6.4	3.8	5.6	8.1
	Irregular	4.8	7.2	10.4	5.6	8.4	12.2	7.2	10.6	15.4