# The incidence of bilateral primary rhegmatogenous retinal detachment and time interval between first and fellow eye

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# ABSTRACT

## Purpose

To calculate the incidence of primary rhegmatogenous retinal detachment (PRRD) in the fellow eye in patients having PRRD in the first eye and to estimate the time between the two events.

## Methods

A single-institution retrospective cohort study including all cases of PRRD operated at Umeå University Hospital between 2011-2019.

## Result

During the study period 2011-2019, 1903 patients were operated for PRRD. 124 (6.5%) patients developed PRRD also in the fellow eye. Although the follow up time varied from within 1 year to 8 years, the majority of fellow eyes occurred within the first year, 77 patients (62%). To standardise the follow up time, a subgroup analysis including all patients suffering a PRRD between 2011-2016 was performed. During 2011-2016 1241 patients were identified as having a PRRD, 68 (5.5%) patients developed PRRD in the fellow eye during the study time and 29 (42.6 %) patients within the first year from the first eye.

## Conclusion

Patients with PRRD in the first eye have a 5.5% risk of developing PRRD in the fellow eye within 3 years. 42.6% of fellow eye PRRD will occur within the first year.