

# Three Cases of Family Occurrence of Moyamoya Disease with RASA1 Mutations

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## Abstract

We report family moyamoya disease consist of a 53-year-old female and her two 31-year-old daughters, with the second-born daughter encounter cerebral hemorrhage. CT angiography showed the typical moyamoya disease change in both case 1-3. Clinical whole exome sequencing was performed in the three daughters of patient in case 1

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