

Online Resource

Triple and quadruple cervical artery dissections: a systematic review of individual patient data Journal of Neurology

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Table I Study Characteristics of included studies

First author	Year of publication	Type of study*	Retrospective or prospective	Number of patients†, (included)
Ringel ¹	1977	Case report	Retrospective	1 (1)
Mas ²	1985	Case series, unclear whether single or multicenter	Retrospective	2 (2)
Schievink ^{3‡}	1994	Cohort, single center	Unclear	9 (1)
Mayer ⁴	1996	Case report	Retrospective	1 (1)
Grau ⁵	1997	Case series, unclear whether single or multicenter	Retrospective	1 (1)
Rees ⁶	1997	Case report	Retrospective	1 (1)
Coric ⁷	1998	Case report	Retrospective	1 (1)
Eachempati ⁸	1998	Case report	Retrospective	1 (1)
Wunderlich ⁹	1999	Case report	Retrospective	1 (1)
Busch ¹⁰	2000	Case report	Retrospective	1 (1)
Garnier ¹¹	2000	Case report	Retrospective	1 (1)
Byule ¹²	2001	Case report	Retrospective	1 (1)

Guillon ¹³	2003	Case-control, multicenter	Prospective	2 (2)
Hamann ¹⁴	2003	Case report	Retrospective	1 (1)
Oehler ¹⁵	2003	Case report	Retrospective	1 (1)
Nadgir ¹⁶	2003	Case report	Retrospective	1 (1)
Pace ¹⁷	2004	Case series, single center	Retrospective	1 (1)
Yong ¹⁸	2005	Case report	Retrospective	1 (1)
Arnold ¹⁹	2006	Cohort, single center	Prospective	1 (1)
Kloss ^{20§}	2006	Cohort, single center	Unclear	7 (7)
Molina-Martinez ²¹	2006	Case report	Retrospective	1 (1)
Dittrich ²²	2007	Cohort, single center	Prospective	1 (1)
Marshman ²³	2007	Case report	Retrospective	1 (1)
Tayal ²⁴	2007	Case report	Retrospective	1 (1)
Chakrapani ²⁵	2008	Case report	Retrospective	1 (1)
Lee ²⁶	2008	Case report	Retrospective	1 (1)
Verdure ²⁷	2008	Case series, single center	Retrospective	1 (1)
Arnold ²⁸	2009	Cohort, multi center	Prospective	12 (12)
Cerutti ²⁹	2009	Case report	Retrospective	1 (1)
Schwartz ^{30§§}	2009	Cohort, single center	Retrospective	7 (6)
Dienstknecht ³¹	2010	Case report	Retrospective	1 (1)
Smith ³²	2010	Case series, single center	Retrospective	1 (1)

Albuquerque ³³	2011	Cohort, single center	Retrospective	1 (1)
Debette ³⁴	2011	Cohort	Retrospective and prospective	19 (19)
Papagiannaki ³⁵	2011	Case report	Retrospective	1 (1)
Pfefferkorn ³⁶	2011	Cohort, single center	Prospective	2 (2)
Pires ³⁷	2011	Case report	Retrospective	1 (1)
Adamec ³⁸	2012	Case report	Retrospective	1 (1)
Dohle ³⁹	2012	Case report	Retrospective	1 (1)
Grond-Ginsbach ⁴⁰	2012	Case series, multicenter	Unclear	1 (1)
Morren ⁴¹	2012	Case report	Retrospective	1 (1)
Allam ⁴²	2013	Case report	Retrospective	1 (1)
Mawet ⁴³	2013	Cohort, single center	Prospective	2 (2)
Panicio ⁴⁴	2013	Case report	Retrospective	1 (1)
Aronov ⁴⁵	2014	Case report	Retrospective	1 (1)
Goyal ⁴⁶	2014	Case report	Retrospective	1 (1)
Vela-Duarte ⁴⁷	2014	Case report	Retrospective	1 (1)
Durand-Dubief ⁴⁸	2015	Case report	Retrospective	1 (1)
Melikyan ⁴⁹	2015	Case report	Retrospective	1 (1)
Abe ⁵⁰	2016	Case report	Retrospective	1 (1)
Vannucchi ⁵¹	2016	Case report	Retrospective	1 (1)
Akamatsu ⁵²	2017	Case series, unclear whether single or multicenter	Retrospective	1 (1)

* Case report was defined as 1 patient; Case series, ≤ 10 patients; Cohort, >10 patients.

† Only the number of patients with triple or quadruple cervical artery dissection is provided, () indicates which of these patients were included in the current study. The original publication may describe additional patients.

‡ The corresponding author no longer had data available for the remaining 8 patients for which there was insufficient individual patient data available in the publication.

§ In the original publication 14 patients with triple or quadruple cervical artery dissections were reported. However, the corresponding author explained that only 8 presented with simultaneous triple or quadruple cervical artery dissections. One of these 8 patients was already described in the case report by Oehler et al (2003) and was therefore excluded.

§§ In the original publication 7 patients with triple or quadruple cervical artery dissections were reported. However, the corresponding author explained that upon further review there were only 6 patients, not 7 as stated in the paper.

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