

Supplementary Table S3. Analysis of the literature on endovascular aneurysm repair (EVAR) performed with carbon dioxide (CO₂).

Authors (publication year)	Type of study	Enrolled patients n	Zero Iodine contrast EVAR n (%)	30-days mortality n (%)	30 days CO ₂ - related complication n (%) (all minors)	30 days not CO ₂ - related complication n (%)	30 days re- intervention n (%)
Chao ⁶ 2007	R	16	3 (19)	0	NA	1	3 (19)
Criado ⁷ 2008	R	18	5 (28)	0	0	2 (11)	NA
Lee ⁸ 2010	P	17	9 (53)	0	NA	0	NA
Criado ⁵ 2012	R	114	72 (63)	2 (1.7)	NA	1	4 (3.5)
de Almeida Mendes ⁹ 2016	P, RCT	16	6 (37)	0	0	0	0
De Angelis ¹⁰ 2017	R	13	11 (85)	0	NA	1 (7.7)	NA
Mascoli ¹¹ 2018	R	31	19 (61)	0	3 (9.7)	0	1
Takeuchi ¹² 2018	R	30	0 (0)	1 (3.3)	NA	1 (3.3)	NA
Vento ¹³ 2019	R	20	9 (45)	NA	NA	NA	NA
Tantawy ¹⁴ 2020	P	15	9 (60)	0	NA	NA	NA
Mola ¹⁵ 2022	R	42	37 (88)	1 (2.4)	0	1 (2.4)	0
Vacirca ¹⁶ 2022	R	72	16 (22)	0	3 (4.1)	0	NA
Quaglini ¹⁷ 2023	R	52	52 (100)	0	3 (5.8)	1 (1.9)	3 (5.8)
Vacirca ¹⁸ 2023	P, M	65	19 (29)	0	8 (12.3)	0	NA
Unal ¹⁹ 2023	P,	34	29 (85)	NA	NA	NA	1 (2.9)
Esposito ²⁰ 2023	R	45	17 (38)	1 (7)	0	NA	0
Busutti ²¹ 2023	R	22	5 (23)	NA	NA	NA	NA

Elsayed Elsaadany ²² 2023	P	20	11 (55)	1 (5)	0	3 (15)	NA
Current Paper	P, M	293	240 (82)	1 (0.3)	3 (1)	13 (5)	5 (2)

The search terms used on PubMed were: Abdominal aortic aneurysm, Endovascular procedures, Carbon dioxide, CO2, Contrast media.

R = retrospective; P = prospective; RCT = randomised controlled trial; M = multicentric; NA = not available.