

**On-line Table: Summary of DCCFs treated with covered-stent placement**

| Case No. | Age (yr)/Sex | Etiology    | Symptoms                                                              | Reason for Initial Treatment Failure           | Stent Size (mm) | Immediate Outcome                                                                             | Follow-Up Duration (Months) and Results                                           |
|----------|--------------|-------------|-----------------------------------------------------------------------|------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1        | 37/M         | Traumatic   | Pulsatile exophthalmos, conjunctival injection, bruit                 | Balloons could not occlude fistula             | 5 × 16          | Complete occlusion of fistula without complication                                            | Complete occlusion of fistula, patent ICA, full recovery at 15-month follow-up    |
| 2        | 57/F         | Traumatic   | Pulsatile exophthalmos, conjunctival injection, bruit                 | Balloons could not occlude fistula             | 4.5 × 26        | Technical failure of stent placement; occlusion via superior ophthalmic vein                  | Complete occlusion of fistula, patent ICA, full recovery at 18-month follow-up    |
| 3        | 68/M         | Spontaneous | Pulsatile exophthalmos, conjunctival injection, bruit                 | Early balloon deflation                        | 5 × 16          | Endoleak was avoided by re-dilation                                                           | Complete occlusion of fistula, patent ICA, full recovery at 48-month follow-up    |
| 4        | 66/F         | Spontaneous | Pulsatile exophthalmos, conjunctival injection, bruit                 | Balloons could not occlude fistula             | 5 × 16          | Complete occlusion of fistula without complication                                            | Complete occlusion of fistula, patent ICA, full recovery at 7-month follow-up     |
| 5        | 58/F         | Traumatic   | Pulsatile exophthalmos, conjunctival injection, bruit                 | Balloons/microcatheter could not enter fistula | 4 × 19          | Complete occlusion of fistula without complication                                            | Complete occlusion of fistula, patent ICA, full recovery at 5-month follow-up     |
| 6        | 42/M         | Traumatic   | Pulsatile exophthalmos, conjunctival injection, bruit, abducens palsy | Early balloon deflation                        | 5 × 12          | Endoleak persisted after re-dilation                                                          | Complete occlusion of fistula, patent ICA, full recovery at 22-month follow-up    |
| 7        | 24/M         | Traumatic   | Pulsatile exophthalmos, conjunctival injection, bruit                 | Balloons/microcatheter could not enter fistula | 4.5 × 16        | Endoleak was corrected by re-dilation but recurred next morning; ipsilateral ICA was occluded | Complete occlusion of fistula and patent ICA, full recovery at 18-month follow-up |
| 8        | 43/F         | Traumatic   | Pulsatile exophthalmos, conjunctival injection, bruit                 | Balloons could not occlude fistula             | 4 × 19          | Complete occlusion of fistula without complication                                            | Complete occlusion of fistula, patent ICA, full recovery at 18-month follow-up    |
| 9        | 49/F         | Traumatic   | Pulsatile exophthalmos, conjunctival injection, bruit, abducens palsy | Balloons could not occlude fistula             | 5 × 16          | Complete occlusion of fistula without complication                                            | Complete occlusion of fistula, patent ICA, full recovery at 16-month follow-up    |
| 10       | 55/F         | Spontaneous | Pulsatile exophthalmos, conjunctival injection, bruit                 | Balloon rupture on mild inflation              | 4.5 × 19        | Complete occlusion of fistula without complication                                            | Complete occlusion of fistula, patent ICA, full recovery at 15-month follow-up    |

**Note:**—DCCF indicates direct carotid cavernous fistula; ICA, internal carotid artery.