

**Supplementary table 1: Overview of cases in literature (chronological order)**

| Case (ref)       | gender | age | etiology                                                                      | Uni/ bilateral  | CST yes/no | orbital symptoms                                                                     | treatment                                                                              | anticoagulation       | Outcome                                               |
|------------------|--------|-----|-------------------------------------------------------------------------------|-----------------|------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------|
| 1 <sup>1</sup>   | f      | 32  | Autoimmune hemolytic anemia                                                   | unilateral      | no         | proptosis, chemosis                                                                  | methylprednisolon                                                                      | no                    | complete recovery                                     |
| 2 <sup>2</sup>   | f      | 54  | Graves' orbitopathy                                                           | unilateral      | no         | bilateral proptosis, limited eye movements, normal visus (20/20 both sides), no RAPD | methylprednisolone, orbital decompression chirurgie                                    | no                    | immediately postop; better eyemovements. No follow up |
| 3 <sup>3</sup>   |        | 88  | Sphenoidal sinusitis                                                          | unilateral      | no         | chemosis, oedema, visual acuity 20/30 Left eye                                       | antibiotic treatment, sphenoidectomy                                                   | no                    | complete recovery                                     |
| 4 <sup>4</sup>   | f      | 61  | orbital cellulitis and pansinusitis                                           | unilateral      | no         | unilateral loss of vision, edema, chemosis, limited eye movements                    | endoscopic sinus surgery, orbital decompression, antioibotics, anticoagulation therapy | yes                   | No light perception                                   |
| 5 <sup>4</sup>   | f      | 47  | ulcerative colitis                                                            | unilateral      | no         | unilateral loss of vision, edema, chemosis, proptosis                                | corticosteroids, anticoagulation therapy, Infliximab (for ulcerative colitis)          | yes                   | No light perception                                   |
| 6 <sup>5</sup>   | f      | 60  | systemic lupus erythematosus                                                  | unilateral      | no         | unilateral loss of vision                                                            | steroids, cysclofosamid, anticoagulation therapy                                       | yes; warfarin/heparin | complete recovery                                     |
| 7 <sup>6</sup>   | f      | 25  | facial cellulitis                                                             | bilateral       | yes        | periotbital edema                                                                    | antibiotics, anticoagulation therapy                                                   | yes, heparine         | died                                                  |
| 8 <sup>7</sup>   | m      | 77  | Severe facial trauma (Le fort III fracture)                                   | unilateral      | no         | chemosis                                                                             | anticoagulation therapy                                                                | yes                   | complete recovery                                     |
| 9 <sup>8</sup>   | f      | 68  | systemic lupus erythematosus                                                  | bilateral SOVT  | no         | decreased vision, periorbital edema                                                  | steroids, anticoagulant treatment                                                      | yes, heparin          | edema and vision improved (not specified)             |
| 10 <sup>9</sup>  | f      | 78  | Graves ophthalmopathy                                                         | unilateral SOVT | no         | proptosis, cystoid macular edema                                                     | prophylactic daily aspirin, dorzolamide/timolol eyedrops                               | yes aspirin           | no information                                        |
| 11 <sup>10</sup> | m      | 20  | Ethmoidal sinusitis                                                           | bilateral SOVT  | no         | proptosis, edema, restricted eye movements, visus 20/30 both sides                   | antibiotics, anticoagulation therapy                                                   | yes, heparine         | no follow up                                          |
| 12 <sup>11</sup> | f      | 77  | Anti-phospholipid syndrome (new diagnosis revealed by haematological work-up) | bilateral SOVT  | no         | proptosis, conjunctival injection and optic disc swelling                            | anticoagulant treatment                                                                | yes (warfarin)        | complete recovery                                     |

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| 13 <sup>12</sup> | m | 2   | trauma with midfacial and orbital fractures                                         | unilateral SOVT | no  | severe prolapsing chemosis and proptosis                                             | Polysporin ointment                                                      | no               | mild ptosis, normal vision       |
| 14 <sup>13</sup> | f | 58  | sickle trait                                                                        | unilateral SOVT | no  | diplopia and orbital pain. Proptosis                                                 | anticoagulant treatment                                                  | yes (warfarin)   | complete recovery                |
| 15 <sup>13</sup> | m | 77  | hereditary hemorrhagic telangiectasia (HHT)                                         | unilateral SOVT | no  | blurred vision, and diplopia, proptosis, verminderde beweeglijkheid alle bewegingen. | no anticoagulation due to increased risk of hemorrhage (HHT)             | no               | complete recovery                |
| 16 <sup>13</sup> | m | 42  | cessation of anticoagulation therapy (warfarin) for history of deep vein thromboses | unilateral SOVT | no  | visual loss ( no light perception), chemosis, proptosis, ophthalmoplegia             | decompression surgery, anticoagulation therapy                           | yes (heparin)    | No light perception              |
| 17 <sup>14</sup> | m | 53  | no information                                                                      | unilateral SOVT | no  | proptosis, eyelid edema, poorly reactive pupil.                                      | antibiotics                                                              | no               | complete recovery                |
| 18 <sup>15</sup> | m | 59  | SOVT in CST tgv masticator space abscess                                            | unilateral SOVT | yes | reduced vision (20/60), proptosis                                                    | antibiotics, anticoagulant therapy                                       | yes (heparin)    | complete recovery                |
| 19 <sup>16</sup> | m | 0,8 | Idiopathic                                                                          | unilateral SOVT | no  | unilateral red, swollen, and droopy eyelid                                           | low-dose aspirin (1 month)                                               | yes aspirin      | mild ptosis, normal vision       |
| 20 <sup>17</sup> | f | 33  | Sphenoid sinusitis                                                                  | unilateral SOVT | yes | chemosis, periorbital edema, and proptosis                                           | endoscopic sinus surgery, antibiotics, anticoagulant treatment           | yes (heparin)    | complete recovery                |
| 21 <sup>18</sup> | f | 65  | orbital cellulitis and ethmoidal sinusitis                                          | unilateral SOVT | no  | proptosis and chemosis, limited visual acuity (20/40)                                | antibiotics, anticoagulant therapy                                       | yes (heparin)    | recovery of vision and proptosis |
| 22 <sup>19</sup> | m | 69  | Adenoid cystic carcinoma of the nasal mucosa                                        | unilateral SOVT | no  | visual acuity 20/400 (right side), RAPD, proptosis, limited eye movements            | antibiotics, anticoagulant therapy, surgical tumor removal, radiotherapy | yes aspirin      | no information                   |
| 23 <sup>20</sup> | m | 41  | antiphospholipid syndrome (new diagnosis revealed by haematological work-up)        | unilateral SOVT | no  | eyelid swelling, chemosis, restricted eye movements, proptosis.                      | methylprednisolone, anticoagulation therapy                              | yes (dalteparin) | complete recovery                |
| 24 <sup>21</sup> | f | 62  | Embolization dural arteriovenous fistula                                            | unilateral SOVT | yes | limited visual acuity, proptosis, edema,                                             | antibiotics, anticoagulant therapy                                       | yes (heparin)    | No light perception              |
| 25 <sup>22</sup> | m | 65  | facial cellulitis and orbital cellulitis                                            | unilateral      | no  | severe edema of his bilateral eyelid and lower conjunctiva                           | intravenous antibiotics, Anticoagulation and oral steroid treatment      | yes (heparin)    | No light perception              |
| 26 <sup>23</sup> | m | 2   | trauma                                                                              | unilateral      | no  | periorbital swelling, chemosis                                                       | surgical placemnt of traction band in the superior fornix                | no               | mild ptosis, normal vision       |

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| 27 <sup>24</sup> | m | 3  | Lemierre syndrome/otomastoiditis                                                                     | unilateral      | yes | periorbital edema                                                                              | antibiotics, anticoagulant therapy                                                         | yes (heparin) | Abducens nerve palsy                   |
| 28 <sup>25</sup> | f | 45 | left cavernous sinus meningioma                                                                      | unilateral SOVT | no  | progressive proptosis                                                                          | craniotomy with excision of the tumor and thrombus                                         | no            | no information                         |
| 29 <sup>26</sup> | f | 64 | dental infection/septic cavernous sinus thrombosis                                                   | bilateral       | yes | ophthalmoplegia, chemosis, proptosis, no light perception right eye, 1/60 left eye             | antibiotics                                                                                | no            | died                                   |
| 30 <sup>26</sup> | f | 52 | Embolisation of carotico-cavernous fistula                                                           | unilateral      | no  | left axial proptosis, chemosis and conjunctival congestion. Vision (0,5/200)                   | steroids, anticoagulant treatment                                                          | yes (heparin) | vision 2/200                           |
| 31 <sup>27</sup> | m | 71 | chronic myeloid leukemia, receiving antifibrinolytic and thrombopoietin receptor agonist medications | unilateral      | no  | visual loss, RAPD, proptosis, ophthalmoplegia                                                  | anticoagulation therapy                                                                    | yes (heparin) | persistent complete loss of vision     |
| 32 <sup>28</sup> | m | 14 | Paranasal sinusitis with SOVT and CST (ER diagnosis: orbital cellulitis)                             | unilateral      | yes | proptosis, normal visual acuity, limited abduction                                             | antibiotics                                                                                | no            | no follow up                           |
| 33 <sup>29</sup> | f | 51 | dental infection and orbital abscess                                                                 | unilateral      | yes | proptosis, chemosis, ophthalmoplegia, vus 20/20.                                               | antibiotics, steroids, anticoagulant therapy , orbital abscess drainage, dental extraction | yes (heparin) | n. abducens palsy                      |
| 34 <sup>30</sup> | f | 16 | Nasal furunculosis                                                                                   | bilateral       | yes | bilateral orbital swelling, proptosis, chemosis, restricted eye movements                      | antibiotics and anticoagulation therapy                                                    | yes (heparin) | complete recovery                      |
| 35 <sup>31</sup> | m | 43 | dental infection, orbital cellulitis                                                                 | unilateral      | no  | proptosis, visual acuity; light perception                                                     | antibiotics, steroids, anticoagulant therapy , surgery (dental extraction)                 | yes (heparin) | light perception/permanent vision loss |
| 36 <sup>32</sup> | f | 59 | Diabetes                                                                                             | bilateral       | yes | gradual onset, restricted eye movements, visual acuity was 6/9 and 6/12 in right and left eyes | insulin                                                                                    | no            | complete recovery                      |
| 37 <sup>33</sup> | m | 47 | Injection of heroin intraorbital                                                                     | unilateral      | no  | decreased vision, ophthalmoplegia, proptosis, and chemosis                                     | antibiotics                                                                                | no            | complete recovery                      |
| 38 <sup>34</sup> | f | 78 | idiopathic orbital inflammatory disease                                                              | unilateral      | no  | proptosis, RAPD, chemosis                                                                      | high-dose oral steroids and anticoagulants                                                 | yes           | complete recovery                      |

|                  |   |    |                                                                         |            |     |                                                                                                                                |                                                               |                  |                                                                                                          |
|------------------|---|----|-------------------------------------------------------------------------|------------|-----|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------|
| 39 <sup>35</sup> | m | 59 | carotid-cavernous fistula                                               | unilateral | no  | no information                                                                                                                 | none/spontaneous cure                                         | no               | complete recovery                                                                                        |
| 40 <sup>35</sup> | f | 52 | carotid-cavernous fistula                                               | unilateral | no  | orbital signs                                                                                                                  | none/spontaneous cure                                         | no               | complete recovery                                                                                        |
| 41 <sup>35</sup> | m | 75 | carotid-cavernous fistula                                               | unilateral | no  | orbital signs                                                                                                                  | none/spontaneous cure                                         | no               | complete recovery                                                                                        |
| 42 <sup>36</sup> | f | 37 | dural arteriovenous fistula of cavernous sinus, gamma knife radiosurger | unilateral | yes | increasing proptosis and vision deterioration in her left eye                                                                  |                                                               | no               | complete recovery                                                                                        |
| 43 <sup>37</sup> | m | 71 | left-sided dacryocystitis-induced orbital cellulitis                    | unilateral | yes | progressive left orbital swelling                                                                                              | dacryocystorhinostomy, antibiotics, dexamethasone,            | no               | complete recovery                                                                                        |
| 44 <sup>38</sup> | f | 58 | Sphenoid sinusitis                                                      | Unilateral | no  | severe right eye pain, periorbital swelling and erythema                                                                       | antibiotics, dexamethasone, drainage of sphenoid sinus        | no               | complete recovery                                                                                        |
| 45 <sup>39</sup> | m | 50 | carotid-cavernous fistula                                               | Unilateral | no  | proptosis, visual acuity 20/200                                                                                                | no information                                                | no information   | no follow up                                                                                             |
| 46 <sup>40</sup> | m | 37 | idiopathic                                                              | unilateral | no  | loss of vision (3 fingers at 3 inches). RAPD, renital whitening of the macula, mild optic disc swelling, dilated retinal veins | anticoagulation therapy                                       | yes              | no information                                                                                           |
| 47 <sup>41</sup> | m | 37 | dental infection, pansinusitis                                          | unilateral | no  | 20/20 in both eyes. Right; proptosis and ptosis, limited abduction                                                             | antibiotics                                                   | no               | complete recovery                                                                                        |
| 48 <sup>42</sup> | f | 36 | oral contraceptive pill, raised factor VIII level.                      | bilateral  | no  | bilateral red, swollen and prominent eyes. Extraocular movements were full. Bilateral proptosis                                | cessation oral contraceptives, aspirin treatment              | yes (aspirin)    | complete recovery                                                                                        |
| 49 <sup>43</sup> | f | 80 | orbital cellulitis, ethmoid sinusitis                                   | unilateral | no  | painful, red, proptosed right eye with diplopia progressing over 4 days                                                        | antibiotics, anticoagulation therapy                          | yes (enoxaparin) | recovery of proptosis and visual acuity. 2 wks later she died due to massive retroperitoneal haemorrhage |
| 50 <sup>44</sup> | f | 62 | posttraumatic carotid-cavernous fistula                                 | bilateral  | no  | proptosis, chemosis                                                                                                            | none/spontaneous cure                                         | no               | complete recovery of ocular symptoms                                                                     |
| 51 <sup>45</sup> | m | 20 | orbital cellulitis and ethmoidal sinusitis                              | unilateral | no  | fever, right orbital pain, and periorbital swelling, limited extrocular movements, proptosis, intact visus                     | antibiotics, orbital drainage via external ethmoidal approach | no               | complete recovery                                                                                        |
| 52 <sup>46</sup> | f | 45 | Minestrine (hormone therapy for menopause)                              | unilateral | yes | right sided visual loss (20/30), proptosis, eye lid swelling                                                                   | cessation of minestrine                                       | no               | complete recovery                                                                                        |

|                  |   |     |                             |            |     |                                                                                            |                                                                |               |                                                    |
|------------------|---|-----|-----------------------------|------------|-----|--------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------|----------------------------------------------------|
| 53 <sup>47</sup> | f | 73  | tamoxifen for breast cancer | unilateral | no  | proptosis, visual acuity 6/9                                                               | cessation of tamoxifen                                         | no            | No ocular symptoms after discontinuation Tamoxifen |
| 54 <sup>48</sup> | f | 42  | use of oral contraceptives  | unilateral | no  | chronic proptosis of right eye (1 year), elevated intraocular pressure, chemosis           | cessation oral contraceptives, timoptol eye drops              | no            | complete recovery                                  |
| 55 <sup>49</sup> | m | 15  | Pansinusitis                | unilateral | yes | right proptosis, chemosis, ptosis, ophthalmoplegia, cranial nerve palsies, and paresthesia | endoscopic sinus surgery, antibiotics, anticoagulant treatment | yes (heparin) | no information (no full tekst)                     |
| 56 <sup>50</sup> |   | 1,5 | idiopathic                  | unilateral | no  | proptosis                                                                                  | antibiotics, steroids                                          | no            | complete recovery                                  |
| 57 <sup>51</sup> | m | 58  | idiopathic                  | unilateral | no  | ptosis, decreased vision (0,7). Proptosis, limited eye movements, disc edema               | no treatment, spontaneous cure within one month.               | no            | complete recovery                                  |
| 58 <sup>51</sup> | f | 53  | idiopathic                  | unilateral | yes | diplopia, visual acuity 0,1                                                                | steronoids (prednisolone)                                      | no            | visual acuity 100%, slight abducent nerve palsy    |
| 59 <sup>51</sup> | m | 63  | idiopathic                  | unilateral | no  | proptosis                                                                                  | trabeculectomy surgery                                         | no            | proptosis                                          |
| 60 <sup>52</sup> | f | 58  | Tolosa-Hunt syndrome        | unilateral | no  | diplopia, visual acuity 20/40 (left side), limited eye movements                           | corticosteroids                                                | no            | complete recovery                                  |

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