**S1 Table. Summary of the main clinical features of vEDS patients.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Patient 1 (P1)** | **Patient 2 (P2)** | **Patient (P3)** |
| **Sex** | M | F | M |
| **Age (years)** | 64 | 55 | 54 |
| **Age at diagnosis (years)** | 53 | 45 | 42 |
| **Mutation/Position** | c.709G>A/Ex 9 | c.951+6T>C/Int 14 | c.1835G>A/Ex 26 |
| **Effect** | p.(Gly237Arg) | In-frame ex14 skipping | p.(Gly612Asp) |
| **Family history** | + | + | + |
| **1st complication (age/type)** | 33/synchronic hepatic and  splenic arteries rupture | 30/ileopsoas artery rupture | 41/hepatic artery dissection |
| **Arterial/Intestinal/Uterine fragility or rupture** | + | + | + |
| **Arterial rupture** | + | + | + |
| **Sigmoid colon perforation** | + | - | - |
| **Bruising** | - | + | + |
| **Thin, translucent skin** | + | + | + |
| **Characteristic facies** | + | + | + |
| **Hypermobility of small joints** | + | + | + |
| **Tendon and muscle rupture** | - | + | - |
| **Gingival recession/fragility** | + | + | NA |
| **Early onset of varicose veins** | - | + | - |
| **Other clinical features** | Aneurysms of renal, ICA,  and femoral arteries | Sp, aneurysms of femoral, iliac, and popliteal arteries | Intracranial and renal artery aneurysms |

+ present; -, absent; Sp, spontaneous splenic rupture; ICA, internal carotid artery; NA, not assessed. DNA mutation numbering is based on the cDNA sequence, and the +1 position corresponds to the A of the ATG translation initiation codon in the reference sequence (*COL3A1*: cDNA: NM\_000090.3, protein NP\_000081.1).