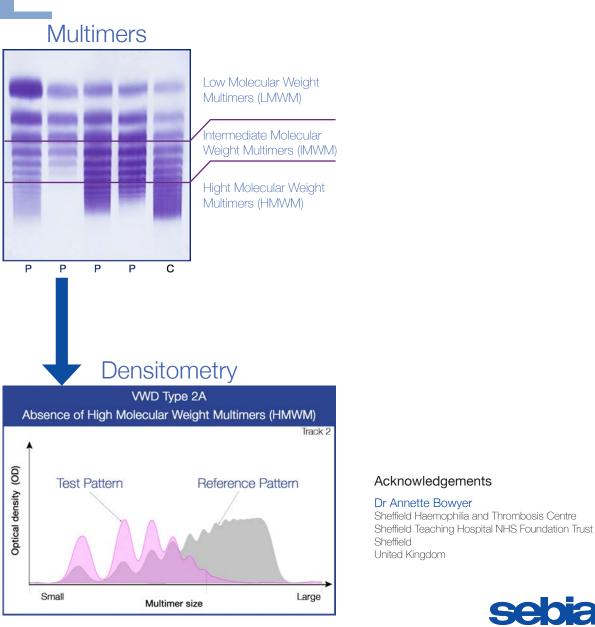
## Sebia HYDRAGEL von Willebrand within-day assay

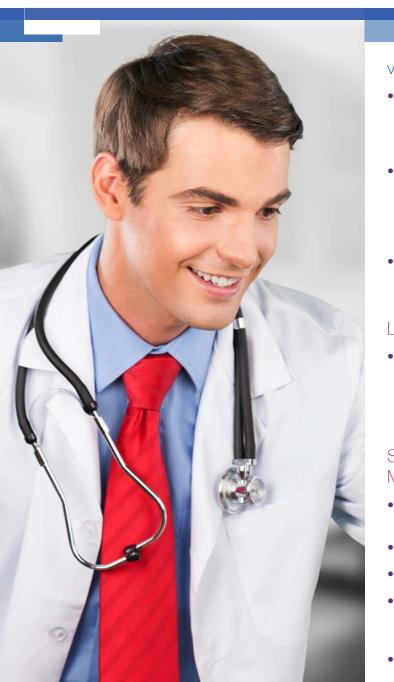


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# New within-day von Willebrand Multimers results

06/2017

Contact: sebia@sebia.com



## von Willebrand Disease Laboratory tests

#### von Willebrand disease

- Congenital von Willebrand disease (VWD) is a mucocutaneous bleeding disorder caused by a reduction or dysfunction of von Willebrand factor (VWF)
- The symptoms of VWD include soft tissue bruising, epistaxis (nose bleeding), gingival (gum) bleeding, gastrointestinal or genitourinary bleeding and menorrhagia. The degree of bleeding experienced is linked to the severity of the VWD in the individual.
- Acquired von Willebrand syndrome (AVWS) may rarely develop in elderly individuals with no prior history of a bleeding disorder.

#### Laboratory diagnosis

• Laboratory diagnosis of VWD involves an initial comparison of the VWF concentration, known as VWF antigen (VWF:Ag) and a measure of its activity (VWF Act), often followed by more specialized tests such as multimer analysis.

### Sebia HYDRAGEL von Willebrand Multimers assay

- Gel densitometry depicts the overall VWF multimers
   distribution
- Easy to interpret, reproducible, standardized
- Allows laboratories to provide one-day results
- Sebia HYDRAGEL von Willebrand Multimers assay is a premium triage test allowing classification of patients in most cases
- Confirmation by traditional multimer test might be required in some patients (to enable triplet and others sub-banding patterns visualisation)

von Willebrand Disease Type 1	von Willebrand Disease Type 2A	von Willebrand Disease Type 2B	Acquired von Willebrand Syndrome
	<ul> <li>Patient B Male 38 years old</li> <li>History of epistaxis</li> <li>p.thr1578Asn mutation in exon 28</li> <li>a Not</li> </ul> A Not </td <td><ul> <li>Patient C Male 27 years old</li> <li>History of epistaxis</li> <li>P.Arg1306Trp mutation in exon 28</li> <li>2 NC*</li> </ul> A solution of the second secon</td> <td>We have a start of the start</td>	<ul> <li>Patient C Male 27 years old</li> <li>History of epistaxis</li> <li>P.Arg1306Trp mutation in exon 28</li> <li>2 NC*</li> </ul> A solution of the second secon	We have a start of the start
UWF:Ag       195 IU/dl         VWF Act       180 IU/dl         Ratio VWF Act/VWF:Ag       0.92         Multimer Analysis       Qualitatively Normal Distribution	The ratio of VWF Act and VWF:Ag is approxim	the mildest bleeding phenotype. This is characterized by a pately 1.0.	

Types 2A, 2B and 2M cause difficulties in platelet binding and are diagnosed by a discordant reduction in VWF:Ag and VWF Act.

- Sub-classification of VWF type 2 includes visualisation of the VWF protein and it's component parts, the multimers.

Historically, this is a laborious and non-standardized assay but essential for diagnosis of 2A and 2M VWD.

- Type 3 VWD is rare and caused by an absence of VWF which results in a clinically significant bleeding.

The ratio of VWF Act and VWF: Ag is 0.6 or less. In individuals with Type 2N VWD, VWF cannot competently bind to clotting factor VIII.

\* Desmopressin \*\* Normal Control