



Case #445

Visualization of Individual Coagulation Profiles

Undetected variations in an individual's global hemostasis are risk factors for cardiovascular and neurovascular disease both in therapeutic treatment and in "normal" situations such as pregnancy and aging. Professor Brummel-Ziedins and her team have developed algorithms to support clinical visualization of individual patient hemostatic profiles allowing evaluation of an individual's hemorrhage control either during therapeutic treatment or over time in healthy individuals, such as in pregnancy or aging.

Applications:

- Coagulation and hemorrhage management.

Advantages:

- Personalized visualization of global hemostasis.
- Improved coagulation and hemorrhage control.
- Bridges between empirical assays and individual risk prediction.

Intellectual Property and Development Status:

US Patent Nos. 10,188,302

Licensing rights available.

References:

Developing individualized coagulation profiling of disease risk: thrombin generation dynamic models of the pro and anticoagulant balance. Brummel-Ziedins KE. Thromb Res. 2014 May;133 Suppl 1:S9-S11

Defining the boundaries of normal thrombin generation: investigations into hemostasis. Danforth CM, Orfeo T, Everse SJ, Mann KG, Brummel-Ziedins KE. PLoS One. 2012;7(2)

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