## COMPARISON OF A NEW VWF ACTIVITY ASSAY (STA - VWF:RCO) (STAGO) WITH BC VON WILLEBRAND REAGENT (SIEMENS), INNOVANCE VWF AC (SIEMENS) AND ABP VWF RICOF ASSAY.

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- Ristocetin cofactor activity of von Willebrand Factor (VWF:RCo) is used as a screening method to estimate VWF function and to detect von Willebrand Disease (VWD).
Since VWF:RCo is considered as the reference method to assess VWF activity, there is a need for an automated assay on routine coagulation analyzers.
- This study aims at comparing STA - VWF:RCo on STA-R EES with other VWF activity assays :
- BC von Willebrand reagent (Siemens) on CS2100i,
- ABP VWF Ricof Assay on STA-R EES
- Innovance VWF Ac on CS2100i.

For comparison methods, patients plasmas included as described in the table below :

| Number of patients <br> plasmas | BC von Willebrand <br> Reagent | ABP VWF Ricof <br> Assay | INNOVANCE <br> VWF Ac |
| :--- | :---: | :---: | :---: |
| Total | 70 | 49 | 20 |
| Activity $<50 \%$ | 30 | 11 | 9 |
| $50 \% \leq$ Activity $\leq 80 \%$ | 9 | 13 | 3 |
| Activity $>80 \%$ | 31 | 25 | 8 |

STA - VWF:RCo
Automated Ristocetin cofactor assay designed on
STA-R and STA-R Max

Reagents

- R1 : Lyophilized platelets
- R2 : Buffer
- R3: Ristocetin
- R4 : Calibrator
- R5 : Control 1
- R6 : Control 2

Slope $=0,93 ; 95 \% \mathrm{Cl}[0,86 ; 1,00]$ Intercept $=6.90 ; 95 \% \mathrm{Cl}:[3,00 ; 10,06]$


STA - VWF:RCo vs BC von Willebrand Reagent
Number of samples : 70 Range : 13 - 228\%

- Correlation coefficient

$$
r=0,964
$$

$$
0,978]
$$

$95 \%$ confidence interval (CI) : $[0,943 ; 0,978]$

- Regression equation (Passing-Bablok)
$y=0,93 x+6,90$
n

STA - VWF:RCo vs ABP VWF Ricof Assay
Number of samples : 49 Range : 19 - 242\%

- Correlation coefficient

$$
r=0,967
$$

$95 \%$ confidence interval (CI) : [0,941; 0,981]

- Regression equation (Passing-Bablok) $y=0,86 x-1,68$
Slope $=0,86 ; 95 \% \mathrm{Cl}[0,79 ; 0,94]$ Intercept $=-1,68 ; 95 \% \mathrm{Cl}:[-6,54 ; 5,14]$



## Benefits of STA - VWF:RCo

- Automated and barcoded ristocetin cofactor assay
- Calibrator and Controls included in the kit,

2 levels of Controls.

RESULTS

