

“I know my value”



CoaguChek[®] XS Plus system
Smart INR monitoring at your practice

CoaguChek® XS Plus system

A better choice for your patients – and your practice

There has been an extraordinary increase in the use of vitamin K antagonists (VKAs), driven mainly by an aging population. Millions of people worldwide are now taking VKAs for a variety of indications, e.g. atrial fibrillation (AF), deep vein thrombosis (DVT), pulmonary embolism (PE), and the presence of a mechanical heart valve (MHV).

To best monitor the efficiency of VKAs, an international normalized ratio (INR) is frequently required. This test can be done at your practice, using a small drop of blood from your patient's fingertip.

This allows you to adapt the VKA dose on the spot – you can check compliance and spend quality time with a possibly better protected and more satisfied patient.

Since 1993, CoaguChek systems from Roche have set the standard in point-of-care INR testing for patients on oral anticoagulant therapy – giving clinicians confidence in making critical treatment decisions. More than two million patients on VKA around the world are currently tested with a CoaguChek system: you can feel confident that you are making the right decision when selecting today a CoaguChek XS Plus system.

A few easy steps



1) Automatic switch-on of the CoaguChek XS Plus system by insertion of the test strip.



2) Virtually pain-free lancing with a lancing device approved for professional use (e.g. the Accu-Chek® Safe-T-Pro Plus).



3) Top- or two-side dosing option for easy application. One small drop of blood (8 µL). Built-in quality control on every strip.



4) INR results within seconds.

CoaguChek XS Plus and connectivity

The CoaguChek XS Plus system offers the safety and convenience you need, including data management and safety options such as operator and quality control (QC) lockouts. Connectivity is straightforward via various ports, whether to the Roche Point-of-Care Data Management Solution (**cobas IT** 1000 application) or to your computer and network. Electronic capture for billing, linking straight into VKA dosage software or electronic patient records, improves your practice management.



CoaguChek® XS Plus system

Offers you more...

...safety

- Onboard control on every strip in the measuring channel:
no need to run quality controls
- INR compares very well with:
 - WHO reference method
 - reagents commonly used in high-quality laboratories
 - CoaguChek XS patient system¹
- Optional liquid QC to meet possible regulatory requirements
- Optional operator & QC lockouts
- Patient identification
- Data transfer to Laboratory Information Systems (LIS)
- Frequent testing:
 - allows timely dosage changes
 - increases time in therapeutic range²
 - reduces adverse events³

...control

- Ability to test and adjust VKA dose on the spot in one appointment
- Consistency of results – all tests come from a single source
- More control of your patients' compliance and condition
- More quality time with patients

...confidence

- Over 20 years of experience from Roche in INR monitoring
- Over 2 million patients tested on CoaguChek systems
- Easy documentation and reporting with the optional Handheld Base Unit
- Up to 2,000 test results stored to review trends
- Increased patient compliance

...convenience

- About 1 minute to get an accurate INR result
- Tiny fingerstick sample – 1 drop (8 µL) of capillary whole blood
- Virtually pain-free sampling with a lancing device such as the Accu-Chek Safe-T-Pro Plus – No need for venous blood sampling
- Easy blood application: top- or sidedosing options, outside the meter to prevent cross-contamination
- Touch screen with icon-based LCD display
- Code chip storage of up to 60 calibrations
- Strips stable for up to 21 months



INR testing at your practice, using a CoaguChek XS Plus system, can significantly improve your patients' safety and quality of life.

CoaguChek[®] XS Plus system

Smart INR monitoring at your practice

CoaguChek XS Plus meter

Test principle	Electrochemical determination of international normalized ratio (INR) after activating coagulation with human recombinant thromboplastin
Turnaround time	Approximately 1 min.
User interface	Full graphical TFT colour screen
Memory capacity	2,000 patient and 500 QC results with date and time
Auto power	Auto-on with strip insertion; programmable auto-off (1–60 min.)
Power supply	4 x 1.5 V AA batteries or optional rechargeable battery pack
Battery life	Up to 80 tests on batteries, up to 60 tests per cycle on battery pack
Operating temperature	+15 °C to +32 °C
Operating relative humidity	10 % to 85 %
Operating maximum altitude	4,300 m
Dimensions	185 x 97 x 43 mm
Weight	311 g (without batteries)
Connectivity	To computer/LIS/HIS through optional Handheld Base Unit



CoaguChek XS PT test

Blood sample size	8 µL
Sample types	Capillary whole blood or non-anticoagulated venous whole blood
Blood application	Top- and 2 side-dosing options, outside the meter
Measuring range	INR: 0.8 – 8.0
International sensitivity index (ISI)	Approximately 1.0 (in line with World Health Organization (WHO) recommendation)
Calibration	Master lot calibrated directly against international reference method
INR reproducibility	Coefficient of variation (CV) <4.5 % for capillary blood
Heparin insensitivity	<ul style="list-style-type: none"> · Heparin concentrations up to 0.8 U/mL · Low molecular weight heparins (LMWH) up to 2 IU/mL antifactor Xa activity
Hematocrit range	25 – 55 %
Quality control	On-board control on every strip in the measuring channel
Stability	21 months from production (+2 °C to +30 °C)

More than 2 million patients on vitamin K antagonists around the world are testing with a CoaguChek® system



References

- 1 Plesch, W., Wolf, T., Dikkeschei, B. (2007). INR results of the CoaguChek XS Plus are equivalent to those of the CoaguChek XS system. Poster presented at the ISTH Congress, July 9, Geneva, Switzerland.
- 2 Matchar, D.B., Jacobson, A., Dolor, R., Edson, R., Uyeda, L. et al. (2010). Effect of home testing of international normalized ratio on clinical events. *N Engl J Med* 363, 1608-1620.
- 3 Heneghan, C., Alonso-Coello, P., Garcia-Alamino, J.M., Perera, R., Meats, E., Glasziou, P. (2006). Self-monitoring of oral anticoagulation: a systematic review and meta-analysis. *Lancet*; 367:404-411.

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Roche Diagnostics International Ltd
CH-6343 Rotkreuz
Switzerland
www.coaguheck.com

CoaguChek[®]
Because it's my life

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