



## **CoaguChek<sup>®</sup> XS system**

*The smart way to test your INR at home*

# CoaguChek® XS system

## *INR monitoring has never been so easy*

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 conditions. They need a regular blood test called the international normalized ratio (INR) to check that their VKA is working as it should.

This test can be done at home using a small drop of blood from the fingertip.

Since 1993, CoaguChek systems from Roche have set the standard in point-of-care INR testing for patients on oral anticoagulant therapy. More than 2 million patients on VKAs around the world are testing with a CoaguChek system: you can be confident you're making the right decision by choosing a CoaguChek XS system today.

### **Just a few easy steps and one minute to your INR results**



1) Insert the test strip into the device (insertion automatically switches the device on).



2) Prick your fingertip with the CoaguChek XS Softclix lancet device to get a drop of blood.



3) Apply the first drop of blood within 15 seconds. Side- or top-dosing on the test strip makes dosing very easy.



4) Get your INR result within seconds.



# CoaguChek<sup>®</sup> XS system

*Offers you more...*

## ... **safety**

- Onboard control on every strip in the measuring channel, with no need to run liquid controls
- Results virtually identical to those achieved with CoaguChek XS Plus system/CoaguChek XS Pro system<sup>1</sup>
- Frequent testing:
  - allows timely dosage changes
  - increases time in therapeutic range<sup>2</sup>
  - reduces adverse events<sup>3</sup>

## ... **independence**

- Use the small, light and easily portable CoaguChek system to test anywhere, anytime, at home or on the go
- Take control of your condition
- Increase your quality of life

## ... **confidence**

- Over 20 years of Roche experience in INR monitoring
- Over 2 million patients tested using CoaguChek systems
- Consistent results, with all tests coming from a single source
- Trend analysis thanks to storage of up to 300 test results

## ... **comfort**

- About 1 minute to get an accurate INR result
- Tiny fingerstick sample – 1 drop (8 µL) of capillary whole blood
- Virtually pain-free sampling using the CoaguChek Softclix lancing device – No need for venous blood sampling
- Easy blood application: top- or sidedosing options, outside the meter for patients with limited dexterity
- One-button operation – simplifies use
- Large, easy-to-read display for patients with limited vision
- Strips stable for up to 21 months



*INR testing, at home or on the go, using a CoaguChek XS system, can significantly improve your quality of life.*

# CoaguChek® XS system for smart INR monitoring

## *The smart way to test your INR at home*

### CoaguChek XS meter

#### Test principle

Electrochemical determination of international normalized ratio (INR) after activating coagulation with human recombinant thromboplastin

#### Turnaround time

Approximately 1 min.

#### User interface

Simple icon-based LCD

#### Memory capacity

300 test results with date and time

#### Auto power

Auto-on with strip insertion; auto-off after 3 min.

#### Power supply

4 x 1.5 V AAA batteries

#### Battery life

Up to 300 tests or 2 years

#### Operating temperature

+15 °C to +32 °C

#### Operating relative humidity

10 % to 85 %

#### Operating maximum altitude

4,300 m

#### Dimensions

138 x 78 x 28 mm

#### Weight

127 g (without batteries)



### 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

- 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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**CoaguChek<sup>®</sup>**  
Because it's my life

A graphic element consisting of a wavy line with a blue-to-red gradient, positioned below the CoaguChek logo.