



# Medimate MiniLab



# > 12 years research & development



2000: Initiative

Psychiatrist Pieter van den Berg  
Prof. Albert van den Berg

2001: PhD Research

2006: Founding Medimate

2007: Advisory Board

## Lithium measurements available any place, any time



Finger stick



Droplet on lab-chip



Lab-chip in device



Li result

## Everyone can now measure Lithium:

- several minutes
- everywhere
- only one droplet blood  
(capillary, serum and venous)
- plug and play
- accurate

# To improve quality of live

	<i><b>Traditional</b></i>	<i><b>MEDIMATE</b></i>
<i><b>Analyze:</b></i>	> 1 hour	several minutes
<i><b>Where:</b></i>	Hospital	Home
<i><b>Hardware:</b></i>	Complex	KISS
<i><b>User:</b></i>	Highly educated	Patient
<i><b>Sample:</b></i>	Tube of blood (Serum)	1 droplet of blood
<i><b>Patient Empowerment:</b></i>	No	Yes

# Selfmonitoring

- pregnancy
- difficult to go to laboratory
- difficult to match opening hours lab
- travelling
- changes in comedication
- instable

# Doctors desk

- toxication?
- mentally instable
- starting lithium
- elderly
- pregnancy
- fear
- therapy **ontrouw**

# Specifications

Reach:

0,2 - 7,0 mmol

Outside:  $< 0,2$  or  $> 7,0$

Expiry date:

9 months



# Tolerance

## Allowable error

CLIA, WSLH, AAB:  $\pm 20\%$  or  $0.3\text{mmol/L}$

NYS:  $\pm 15\%$  or  $0.3\text{mmol/L}$

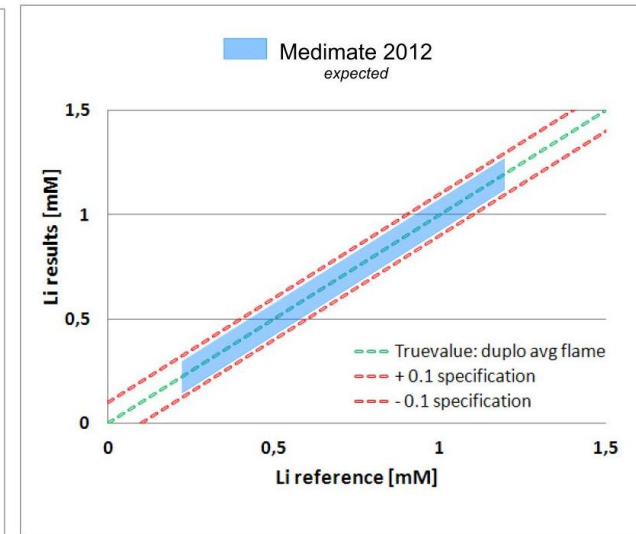
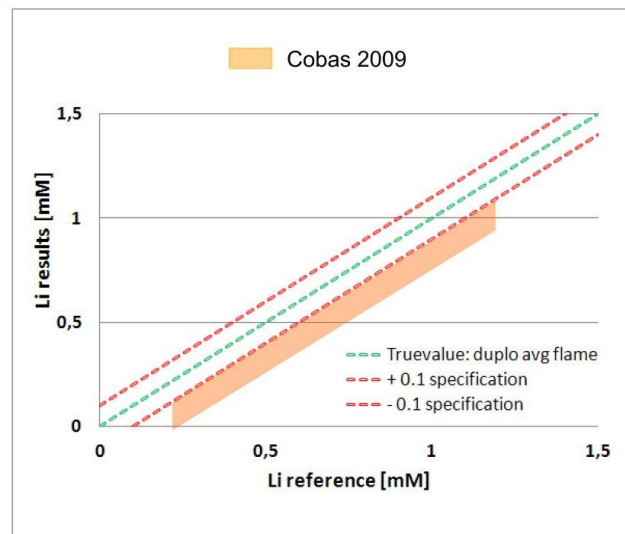
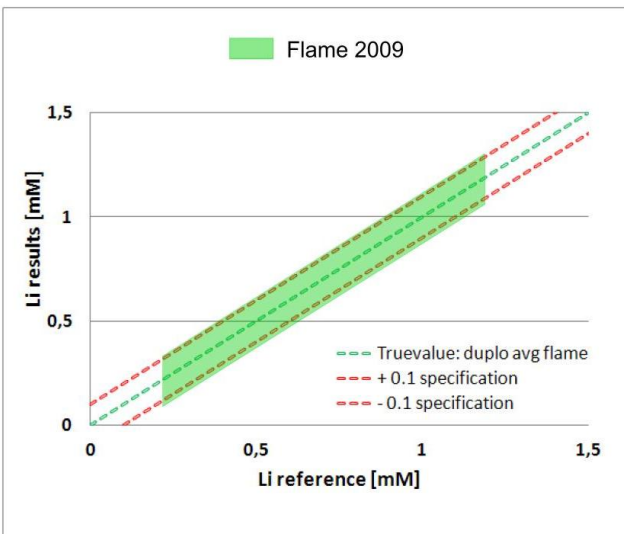
CAP:  $20\%$  or  $0.3\text{mEq/L}$

RCPA:  $0.2\text{mmol/L}$

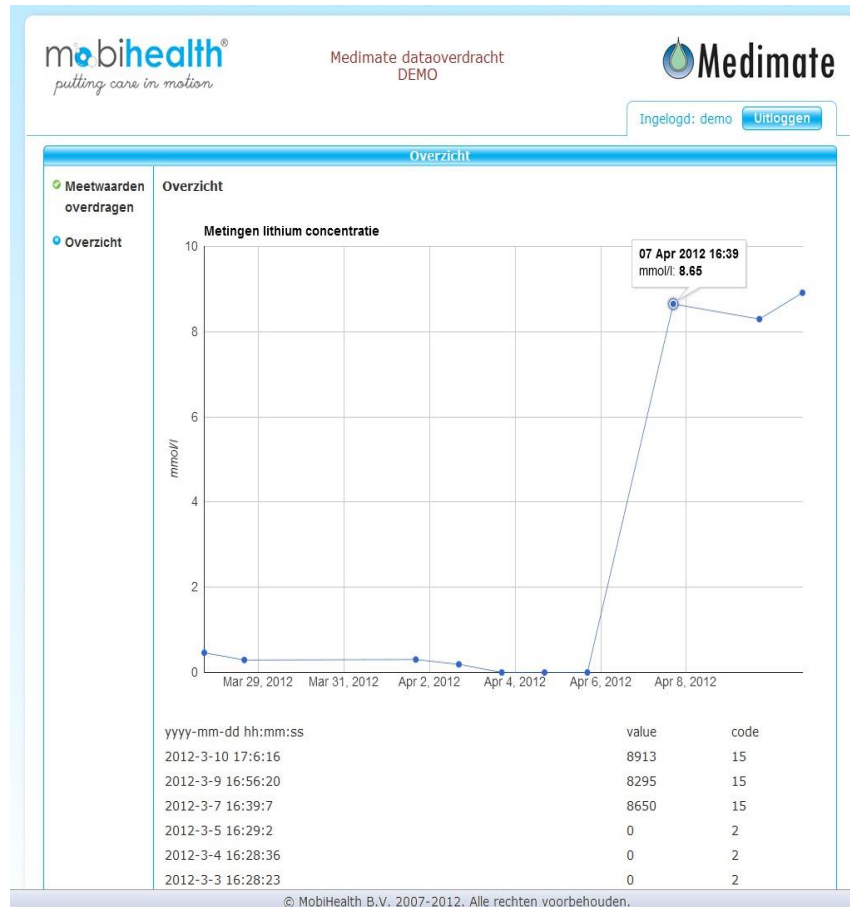
CFX:  $10\%$

Kenbis  $\pm 0.1\%$  or  $0.1\text{ mmol/L}$

# Accuracy



# Fitted for data transfer



# Cost

- Lithium lab-chip      €    18,50 excl. VAT
- Multireader approx. €    1.250 excl. VAT

# Rollout

## 2012 Validation:

MST : clinical - chemistry  
Dimence: accuracy and functionality users

## 2013 Trimbos Intitute : in use by user

75 patients , 12 month, Lithium MiniLab at home  
cost / tehrapy effectivity / well being

## 2013 GGZ Friesland: in use within organisation

# Rollout



# Rollout

2013 The Netherlands (with Health Insurance Companies)  
Spain (with Francesc Colom)  
???

2013 Q4 - FDA for USA

2014 USA  
???

## Introduction in your country:

- Opinion leaders
- Psychiatry
- Pharmacology
- Clinical chemistry
- National advocacy networks





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