



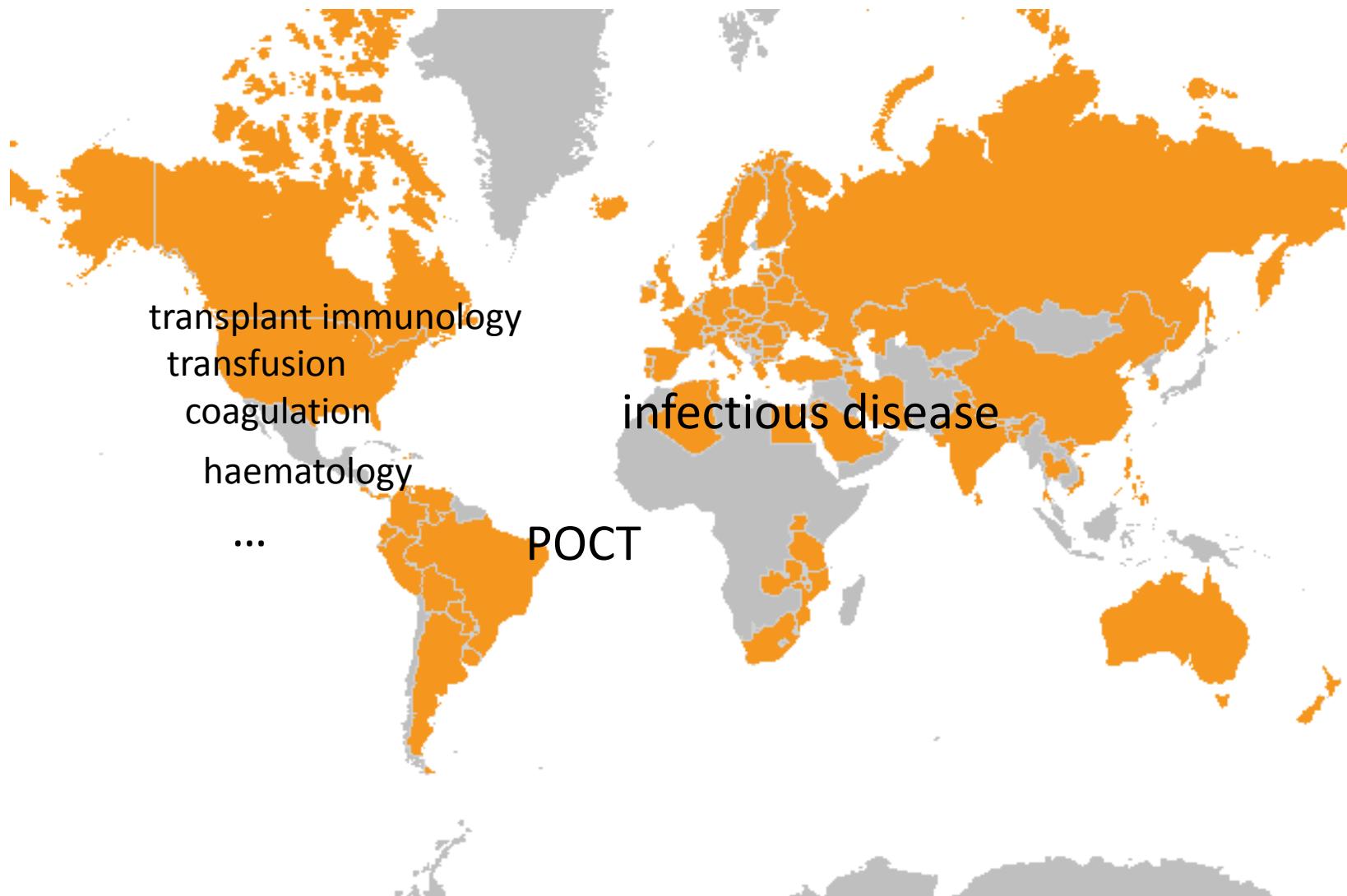
INSTAND_{e.V.}

JCTLM Member activities

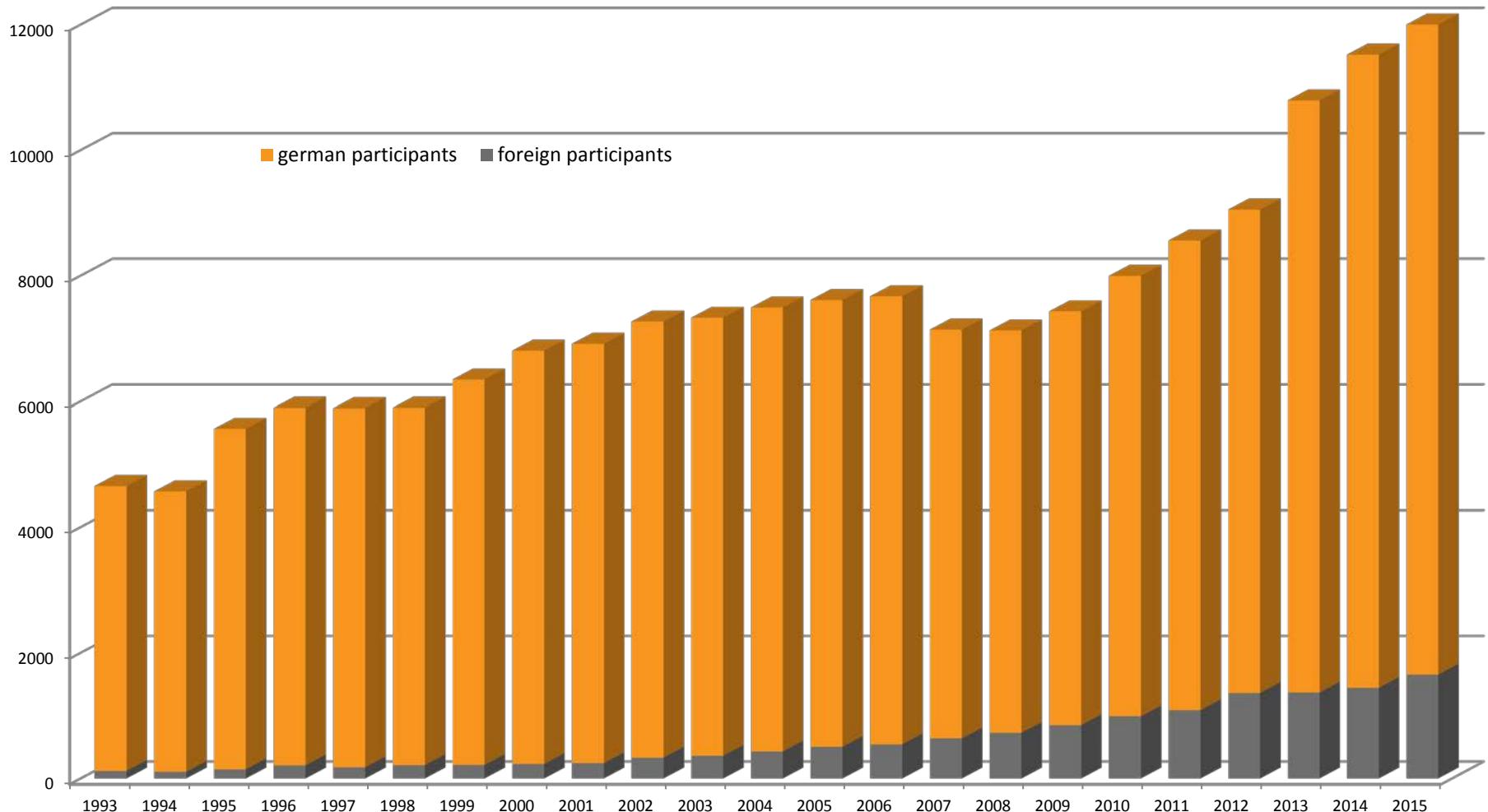
Prof. Dr. Michael Spannagl

Dr. Patricia Kaiser

EQAS organizer worldwide



Number of participants from 1993-2015



RiliBÄK - Guideline of the German Medical Association on Quality Assurance in Medical Laboratory Testing



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**New Guideline for Quality Assurance
of the German Medical Association (RiliBÄK)**
-> mandatory for all medical laboratories in Germany

Section A Fundamental requirements for quality assurance	Effective since 1 April 2008 Update 2011
Specific Section B 1 Quantitative analyses in laboratory medicine - <i>internal QA</i> - <i>external QA</i>	Effective since 1 April 2008
Specific Section B 2 Qualitative analyses in laboratory medicine - <i>internal QA</i> - <i>external QA</i>	Effective since 1 July 2011
Specific Section B 3 Direct detection and characterization of pathogens - <i>internal QA</i> - <i>external QA</i>	Effective: 1 June 2015
Specific Section B 4 Analyses of ejaculate - <i>internal QA</i> - <i>external QA</i>	Effective since 1 July 2011
Specific Section B 5 Molecular- and cytogenetic analyses - <i>internal QA</i> - <i>external QA</i>	Effective since 1 October 2011

reimbursement

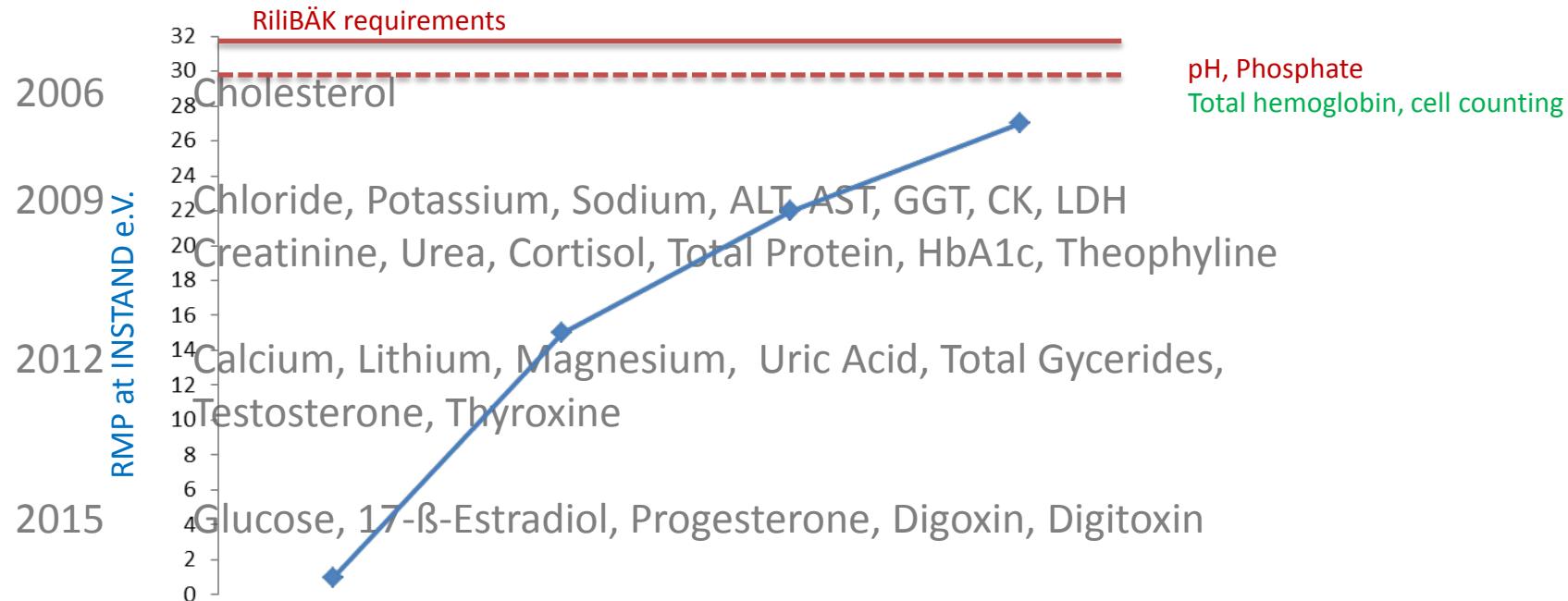
New Guideline for Quality Assurance of the German Medical Association (RiliBÄK)

-> mandatory for all medical laboratories in Germany
(extract from annex B1)

1 No.	2 Analyte	3 Acceptable relative deviation of the single value or the relative root mean square	4 Range of validity of columns 3 to 5			5 Acceptable relative deviation in a round robin test	6 Type of target value in a round robin test
			From	To	Unit		
19	DIGOXIN	14.0%	> 1	5	µg/l	30.0%	RMV
		17.5%	0.5	≤ 1	µg/l		
20	Erythrocytes	4.0%	1.5	7	10 ¹² /l	8.0%	RMV
21	Estradiol 17-beta	22.0%	10	500	ng/l	35.0%	RMV
			37	1835	pmol/l		
22	Ethanol (clinical toxicology)	9.0%	> 0.6	5	g/l	12.0%	SV
		15.0%	0.2	≤ 0.6	g/l	21.0%	
23	Ferritin	13.5%	10	600	µg/l	25.0%	SV
24	FSH	14%	4	70	U/l	21.0%	
25	Gamma glutamyl transferase (γ-GT) EC 2.3.2.2	11.5%	20	300	U/l	21.0%	RMV
			0.33	5	µkat/l		
26	Glucose	11.0%	40	400	mg/dl	15.0%	RMV
			2.2	22	mmol/l		
27	Haematocrit	5.0%	10	60	%	9.0%	SV
			0.1	0.6	l/l		
28	Haemoglobin	4.0%	2	20	g/dl	6.0%	RMV
			1.2	12.4	mmol/l		
29	Haemoglobin A 1 c (HbA1 c)	10.0%	30	140	mmol/mol Hb	18.0%	RMV
30	Uric acid	7.0%	2	13	mg/dl	13.0%	RMV

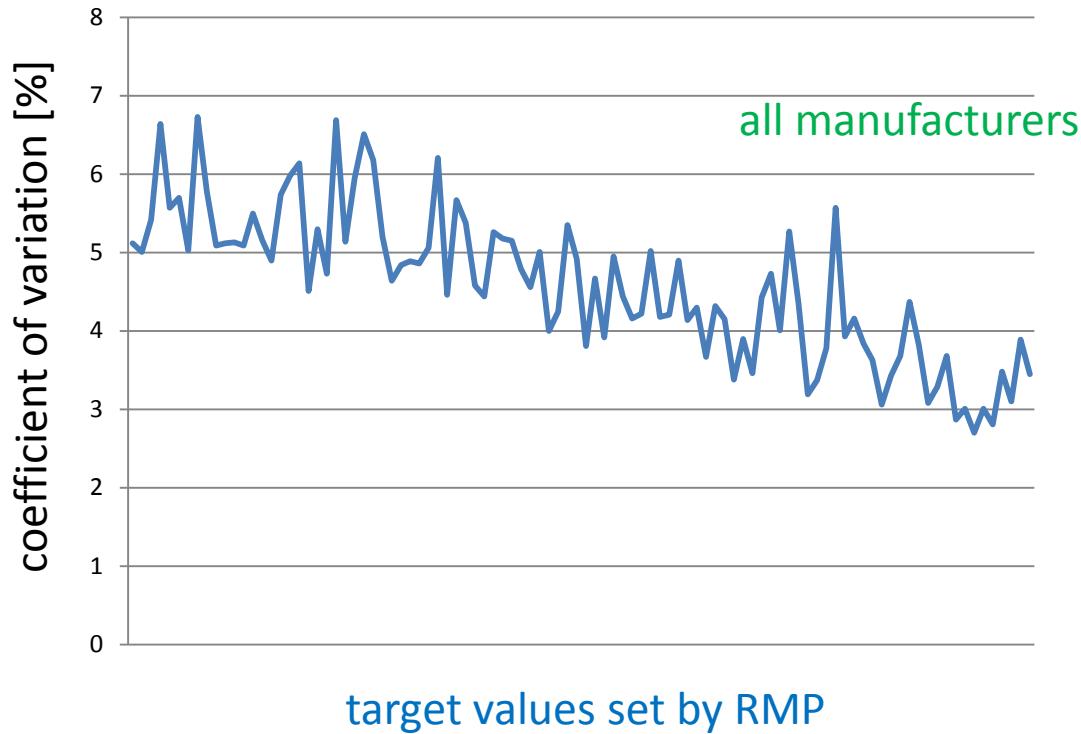
Reference laboratory

Accredited as calibration laboratory according to ISO 17025 and ISO 15195



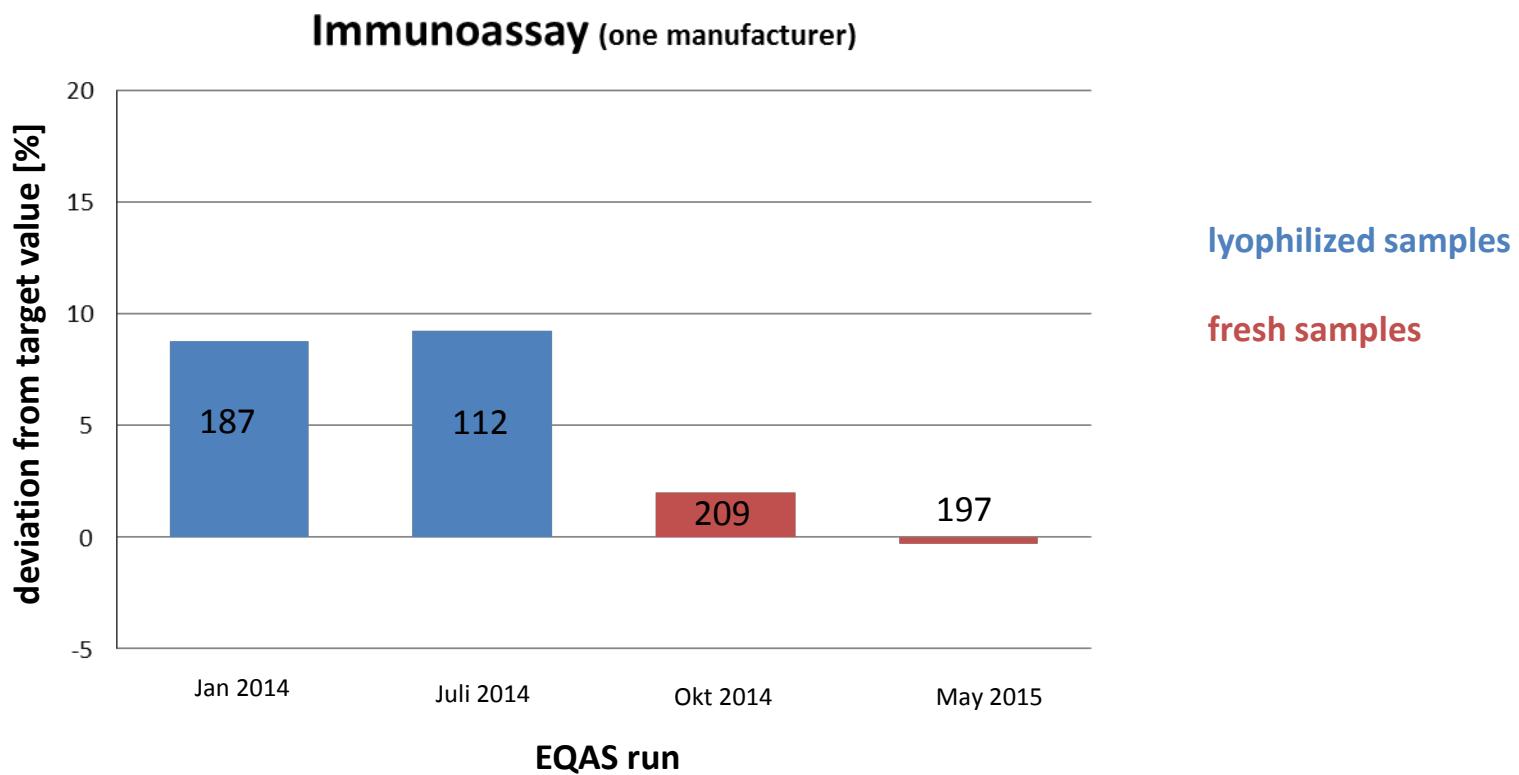
Interlaboratory CV Glucose

EQAS results 2002 - 2015

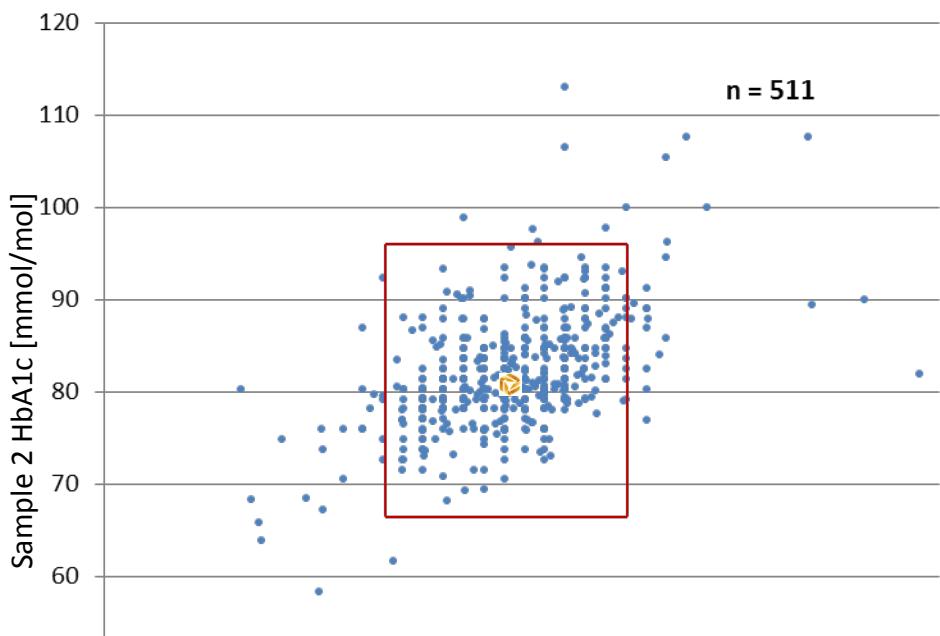


Deviation from target value

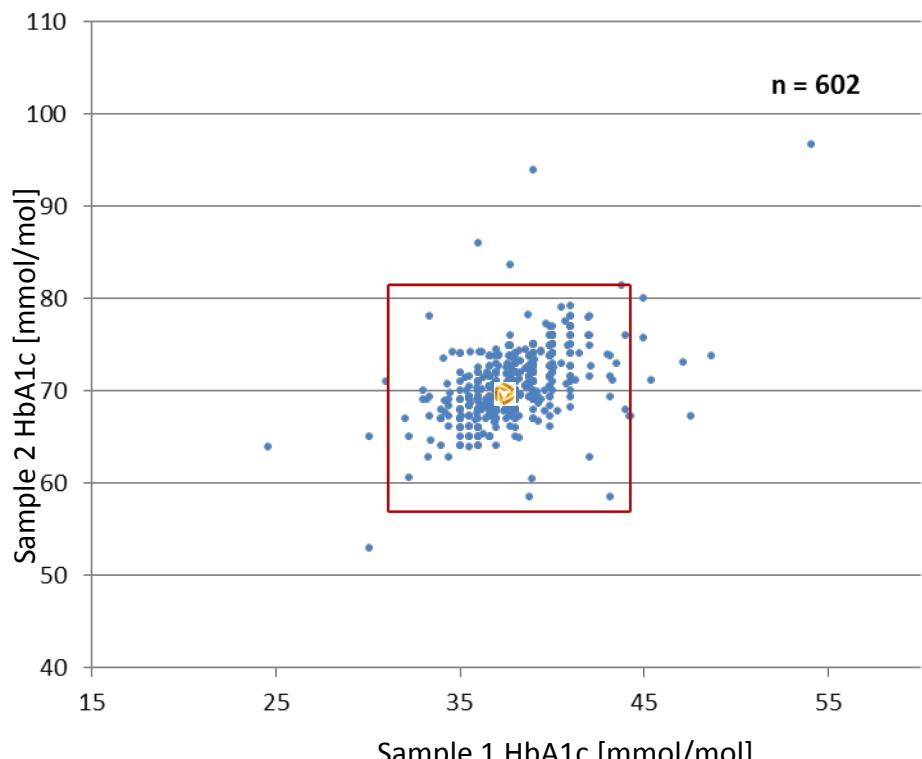
EQAS for HbA1c with lyophilized and fresh whole blood samples



HbA1c EQAS results



January 2009
lyophilized samples



May 2015
fresh blood samples

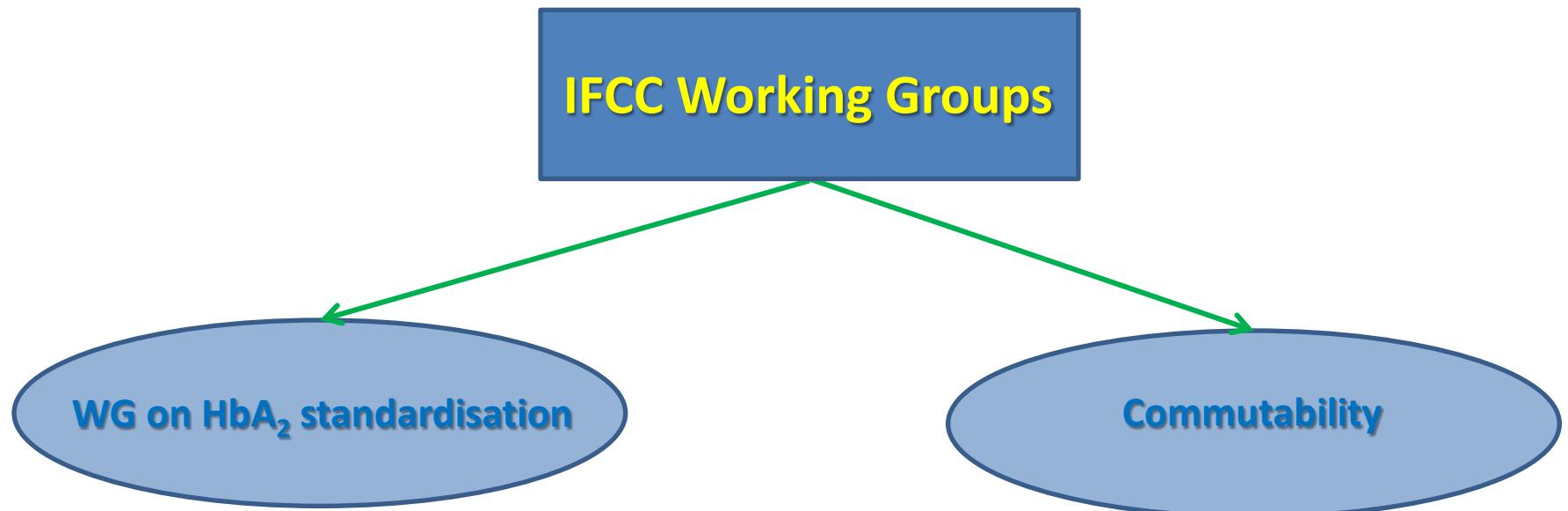
acceptability range $\pm 18\%$ from target value

Participation in intercomparison studies

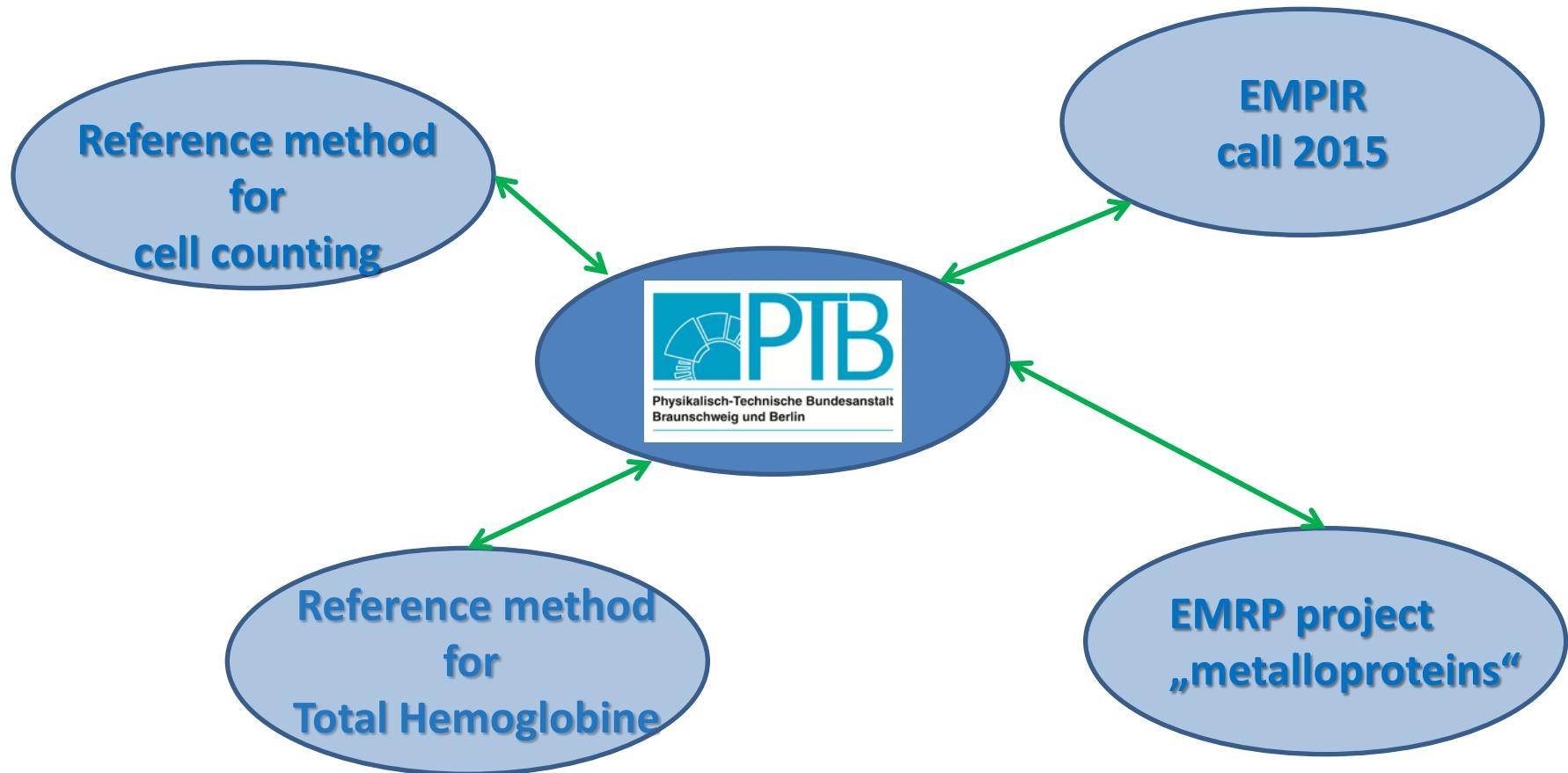
RELA – IFCC
ring trials

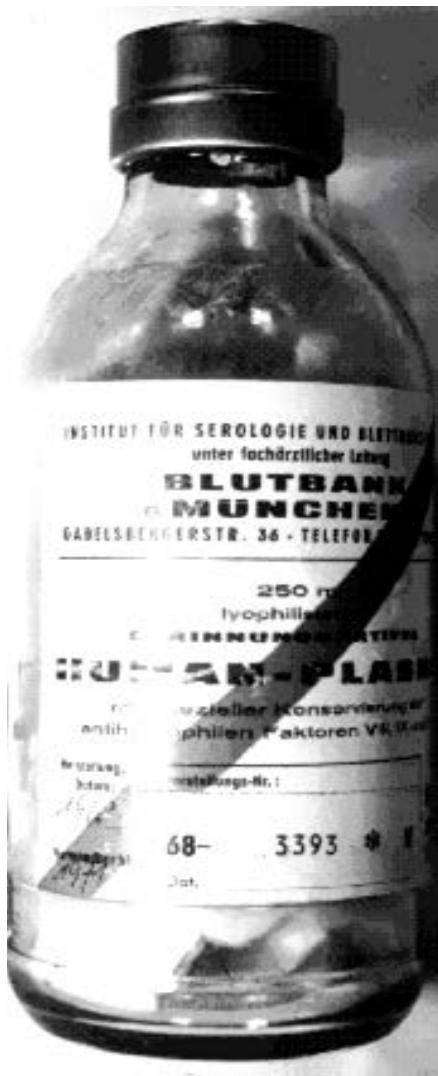
IFCC HbA_{1c}
Network Laboratories
campaigns

Further activities

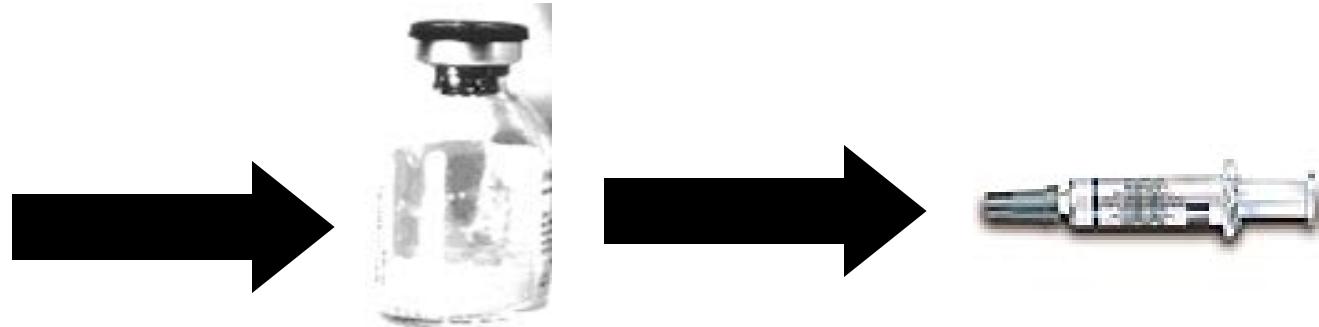


Further activities





Coagulation factor VIII Replacement therapy 1950 - 2015

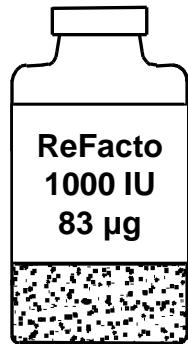


ReFacto AF vs. Xyntha

previous ReFacto

Worldwide

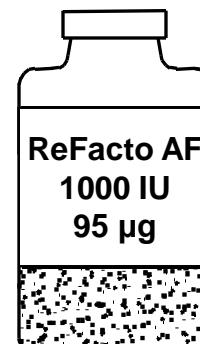
CS Assay WHO 6. IS



Xyntha/ReFacto AF

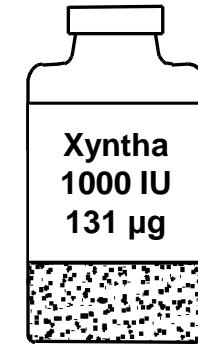
Europe

CS Assay WHO 7. IS



USA/Canada

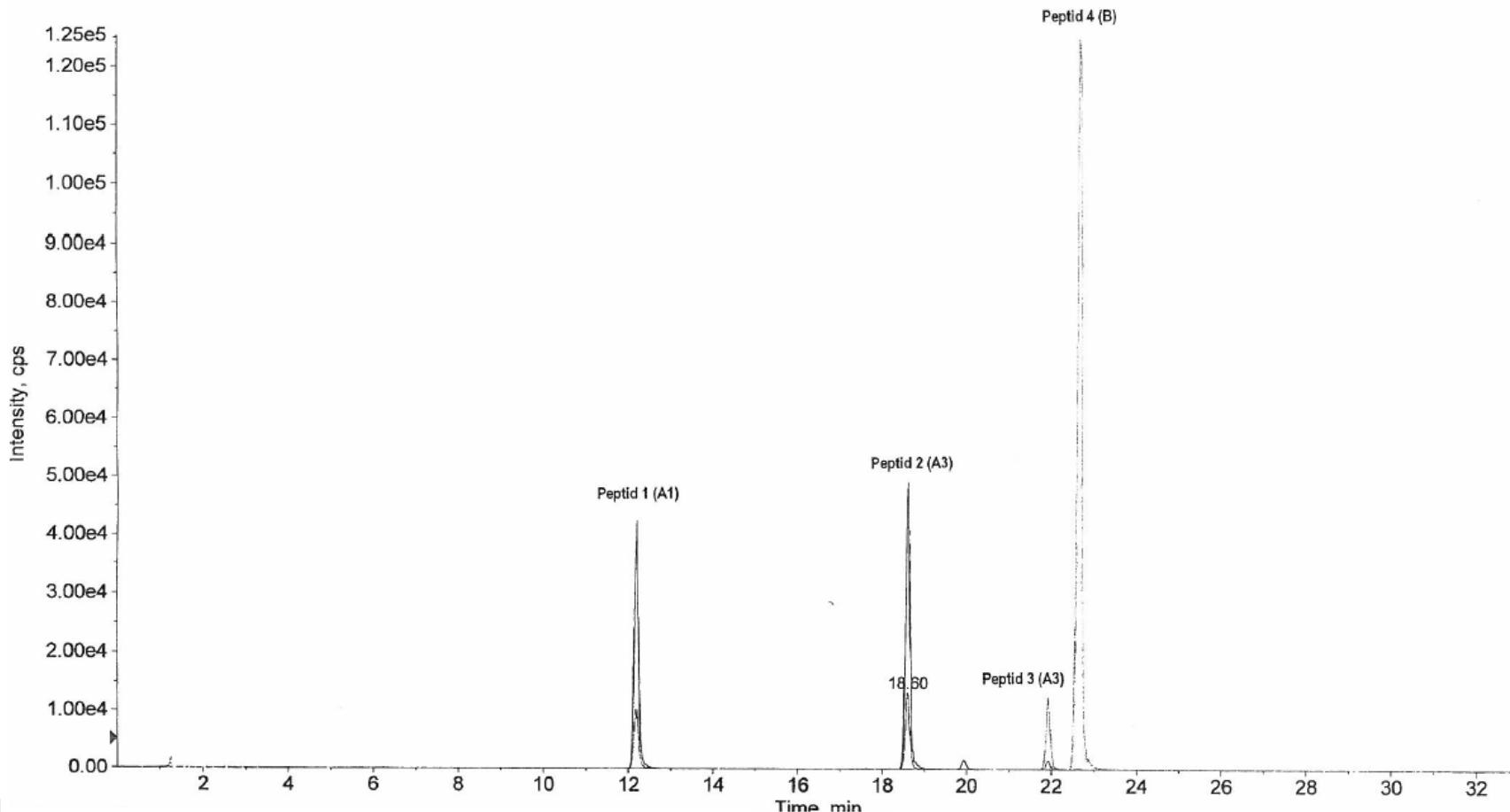
OS Assay WHO 7. IS



LC-MS/MS chromatogram of recomb. FVIII after triptic digestion

XIC of +MRM (8 pairs): 372.7/333.2 amu from Sample 8

Max. 1.3e4 cps.



Perspectives

- High quality reference materials
- Commutability
- To convince the „real world“ of the traceability concept

Thank you for your attention