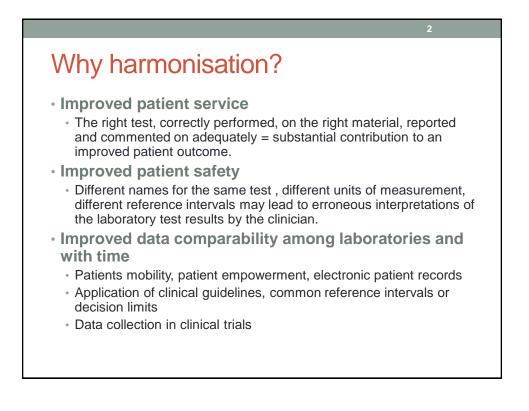
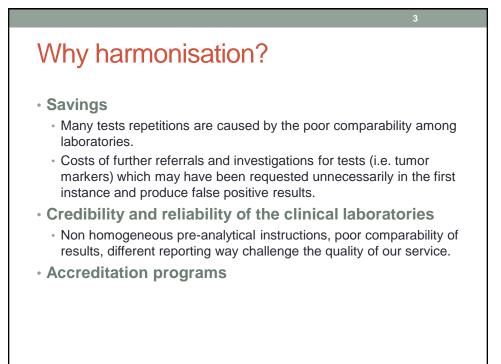
EUROPEAN HARMONISATION INITIATIVES

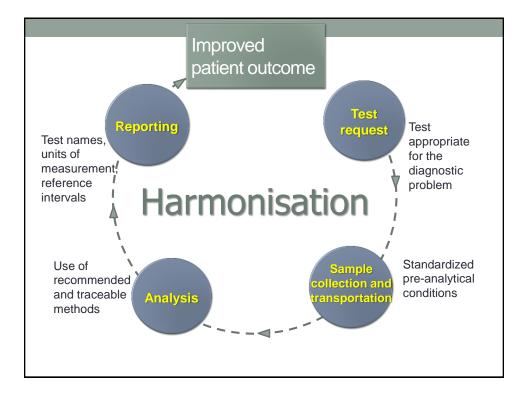
Ferruccio Ceriotti EFLM WG-Harmonisation of total testing process

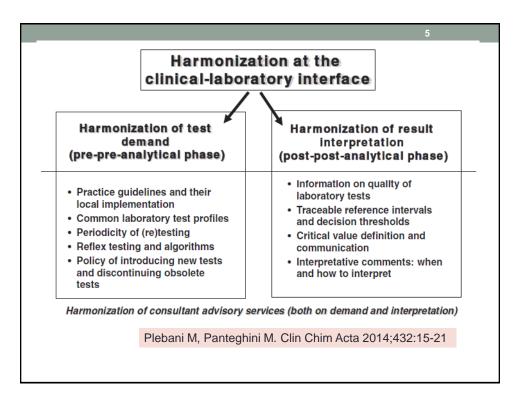


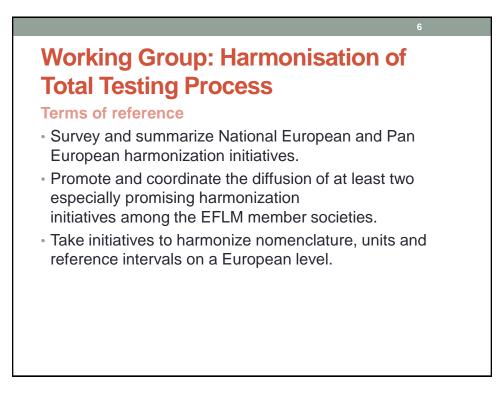


EQALM symposium 2015 8-9 October, Bergen, Norway



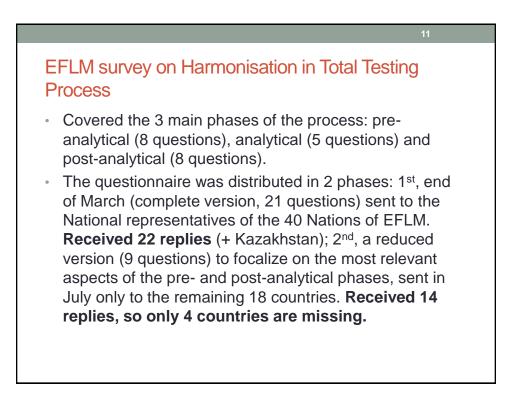


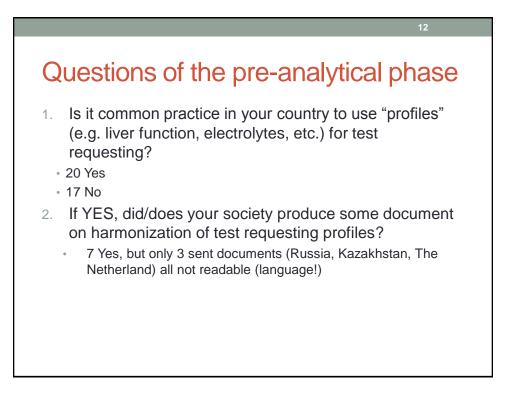


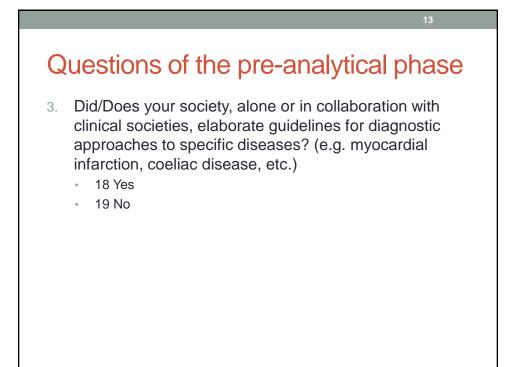


Plan of action for the first two years

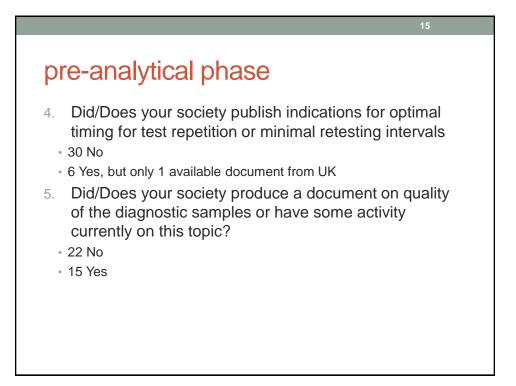
- The WG will act as a collector of the harmonisation initiatives arising from other WGs or Task and Finish Groups of EFLM and from National Member Societies active in the field, and will disseminate them to all the EFLM Member Societies attempting to monitor their application and effects.
- The WG will survey and promote the use of harmonised **nomenclature** for measurands and promote the use of **amount of substance units** in the European countries.
- The WG will promote the implementation of common reference intervals for the measurands where this approach is feasible.

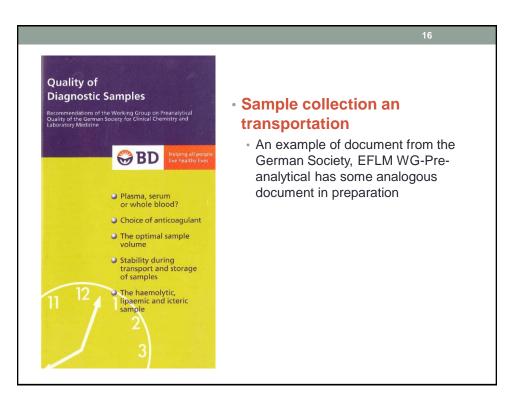


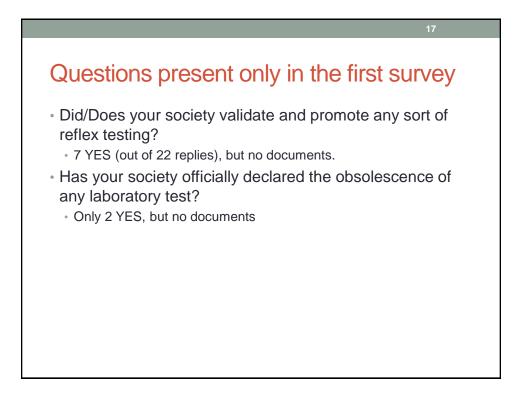




Existing guidelines Gestational Diabetes Very heterogeneous material Diabetes Most of the documents in CKD national languages Tumor markers Several topics covered in Thyroid disease multiple countries (AMI, Thyroid disease in CKD, diabetes, tumor pregnancy markers) Autoimmune disease proteinuria Should we try to prepare European guidelines to Coeliac disease avoid 40 times repetition of Ref val of lipoproteins the same efforts? dyslipidemia Myocardial infarction



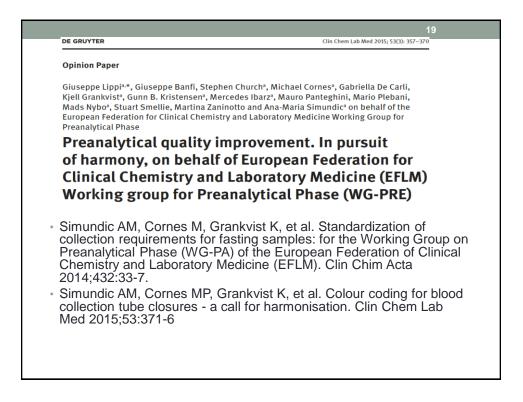


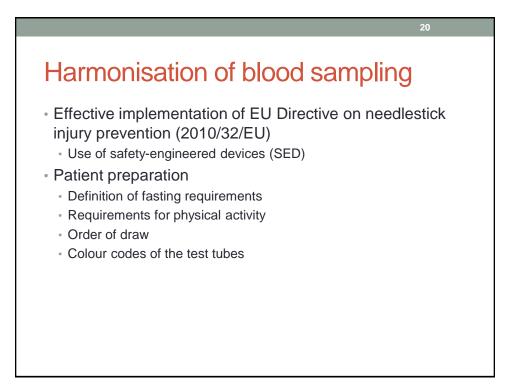


Other pre-analytical harmonization
activities

 Documents regarding how to perform phlebotomy or collection of other samples (urine, CSF etc.)

Croatia	http://www.biochemia- medica.com/2013/23/242						
Slovenia	Venous blood, capillary blood, urine collection , CSF						
Italy	Blood sampling / Urine collection						
Norway	Blood sampling instructions						
The Netherland	Correct way of carrying out phlebotomy						





Colour coding for blood collection tube closures EFLM TFG chaired by A. Simundic

Table 2 Standard colours or manufacturers' core tube closure colours currently provided by several major tube manufacturers.

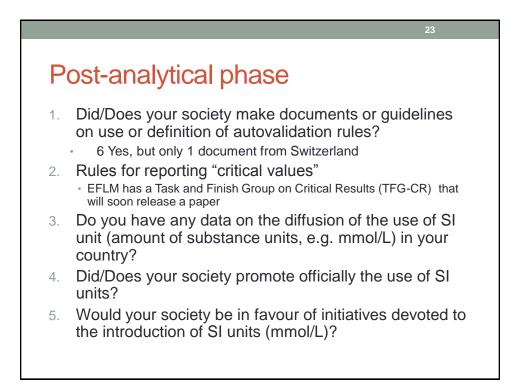
	Additive	1	2	3	4	5	6	7
Serum (clotting activator)	Clot activator	White	Red	Red	Red/Black ring	Brown	Red	Red
Serum-gel (clotting activator)	Gel, clot activator	Brown	Brown	Gold	Red with Yellow ring	Red Gold	Yellow	Gold
Plasma	Heparin	Orange	Green	Dark green	Green with black ring	Dark green	Dark green	Green
Plasma gel	Heparin	Orange/Brown	Green/Brown	Mint green	Green with yellow ring	Light green	Green	Green
Plasma	Citrate	Green	Blue	Blue	Blue with black ring	Pale blue	Blue	Blue
Whole blood	Citrate	Purple	Black	Black	Blue with yellow ring	Black	Black	Black
Whole blood	EDTA	Red	Purple	Purple	Purple with black ring	Purple	Light lavender Lavender	Lavender
Plasma gel	EDTA	Red	Purple/Brown	White	Purple with yellow ring		White	
Glucose (fluoride)	Glycolytic inhibitor	Yellow	Grey	Grey	Grey with black ring	Grey	Grey	Grey
Trace element tube	EDTA	Orange	Orange	Dark blue	Dark Blue with black ring			
Source		Catalogue	Catalogue	Catalogue	Website	Catalogue	Website	Catalogue

Road map

- All stakeholders, including all manufacturers working in the field, have been invited to join a dialogue to establish a universally acceptable colour coding standard for blood collection tube closures;
- Standard writing bodies (ISO, CLSI) should add the colour coding standard agreed on to the existing recommendations;
- Manufacturers should implement the agreed colour coding standard.



- Creation of reference measurement systems: IFCC task
- Quality goals: EFLM Task Force on Performance Specifications in Laboratory Medicine



					24
	Use of SI	Intention to		Use of SI	Intention to
Nation	units	promote SI	Nation	units	promote SI
1 <mark>Albania</mark>	<10%	NO	21 Latvia		
2 Austria			22 Lithuania	>80%	Yes
3Belgium	50 - 80%	Yes	23 Luxembourg		
Bosnia 4 Herzegovina	100%	Yes	24 Macedonia	>80%	Yes Yes
5Bulgaria	100%	NO	25 Montenegro	>80%	
Ŭ	>80%	Yes	26 Norway	>80%	Yes
6Croatia			27 Poland	50 - 80%	Yes
7 Cyprus	<10%	NO	28 Portugal	10 – 25%	NO
8 Czech Republic	>80%	NO	29 Romania	10 – 25%	Yes
9 Denmark	>80%	Yes	30 Russia	100%	Yes
10 Estonia	50 - 80%	Yes	31 Serbia	100%	Yes
11 Finland	>80%	Yes	Slovak	0.000/	Vee
12 France	100%	Yes	32 Republic	>80%	Yes
13Germany	25 – 50%	Yes	33 Slovenia	100%	Yes
14 Greece	<10%	Yes	34 Spain	<10%	Yes
15 Hungary	>80%	NO	35 Sweden	>80%	Yes
16 Iceland	>80%	Yes	36 Switzerland	>80%	Yes
17 Ireland	<10%	Yes	37 The Netherland	>80%	Yes
18 Israel	<10%	Yes	38 Turkey	<10%	Yes
19 Italy	<10%	Yes	39 Ukraine	100%	Yes
20 Kosovo			40 UK	>80%	Yes

Units of measurement

- In 8 European countries less than 10% of the results are reported in SI units.
- Six societies do not promote officially the use of SI units: Belgian, Czech, Italian, Greek, Macedonian and Norwegian, but only in 2 of them (Italy and Greece) the use of SI unit is <10%.
- 3 societies (Albania, Cyprus and Portugal) declare to be against a campaign for their implementation
- **Use of katal**. Only in 5 countries: Czech republic, Slovenia, Slovakia, Sweden and Ukraine. Should we suggest to abandon it?
- WG-H will start a campaign within the EFLM members for:
 - Moving to SI units for all the electrolytes
 - Using only Liter (L) as denominator for all the measures where SI units are not available (proteins)

Considerations on the results of the survey

- · Not harmonised harmonisation activities!!
- Several initiatives, but difficult to spread among countries also for the problems related to different languages
- · Reference interval problem not yet touched

