

EURONET-SAMM project:

EUROpean NETwork on Severe Acute Maternal Morbidity

Anne Chantry Catherine Deneux-Tharaux

Inserm U1153, Epopé Team



Plan

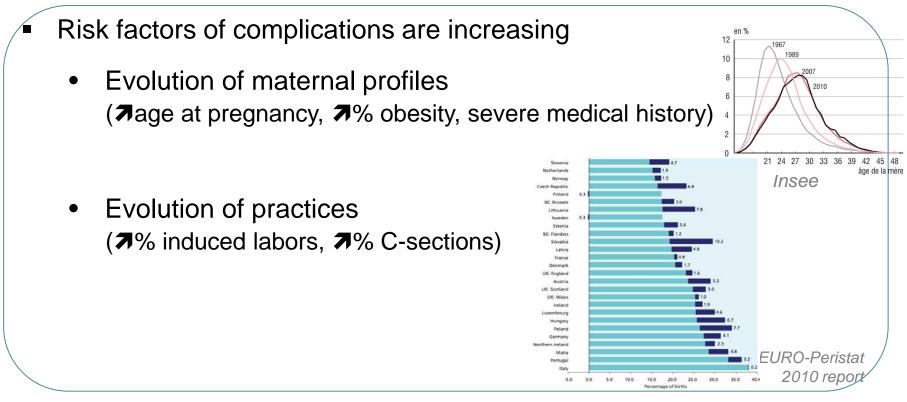
 Why should we study Severe Acute Maternal Morbidity (SAMM) ?

• SAMM in the last Europeristat report

• The EURONET-SAMM project

Why should we study SAMM?

- Although pregnancy and childbirth are generally healthy events
- They can be associated in some cases with maternal complications that can worsen and lead to maternal death.





Necessity to monitor maternal health

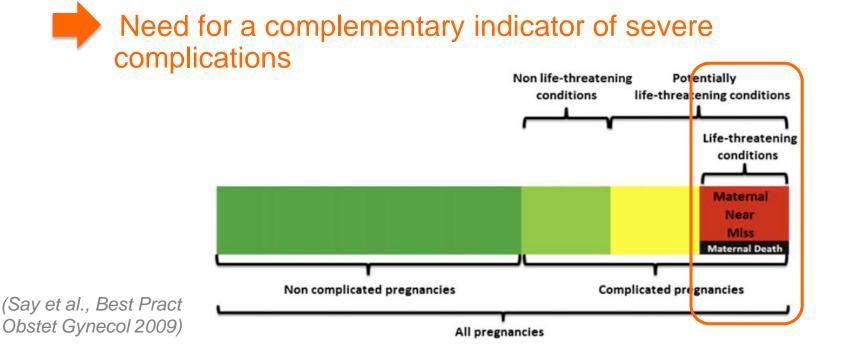
Which indicator to monitor maternal health ?

Over 50 years, **maternal mortality** has been the traditional indicator of maternal health



But it has some limitations due to the scarcity of maternel deaths in high-ressource countries:

- This prevents subgroups analyses by causes of death
- And implies long data collections with the risk of obsolete conclusions



The SAMM indicator

• Main issue:

To date, there is still no internationally consensual definition of SAMM

Several previous propositions:

- Selection of diagnoses, procedures or organ failures, mainly for research focus

(Waterstone, BMJ 2001 - Zhang, BJOG 2005 – Geller, JCE 2004 – Mantel BJOG 98)

- WHO near-misses definition (2009): but this definition is controversial/ relevance for high-ressource countries?

(Say et al., Best Pract Obstet Gynecol 2009)

In the EURO-Peristat group

• The study of SAMM was an objective of the EURO-Peristat II Project

Objective 3 Point 2: Analyse data from selected countries on: generating maternal morbidity indicators from hospital discharge data and quality criteria.

	Source	Number of women	Rates per 1000 women Blood transfusion								
Country/coverage			Eclampsia	ICU admission	3 units or more	5 units or more	Other amount	No units specified	Hysterectomy	Embolisation	
Belgium											
Czech Republic	1	114 407	0.2	NA	NA	NA	NA	NA	0.3	NA	
Denmark	1	62 203	0.5	NA	NA	NA	NA	NA	NA	NA	
Germany	1	625 615	0.6	4.9	NA	NA	14.3	NA	1.0	0.0	
Estonia	1	15 646	0.3	NA	NA	NA	NA	3.9	1.3	NA	
Ireland											
Greece											
Spain											
ES: Catalonia											
ES: Valencia	6	37 236	0.3	NA	NA	NA	NA	8.1	0.5	NA	
France	5	832 799	0.9	2.0	NA	NA	NA	6.5	0.7	1.4	
Italy											
Cyprus											
Latvia	1	19 003	0.9	NA	NA	NA	NA	3.9	1.2	NA	
Lithuania	1	30 568	0.4	NA	NA	NA	NA	NA	NA	NA	
Luxembourg	1	6440	NA	3.7	NA	NA	NA	NA	NA	NA	
Hungary											
Malta	1	3952	0.0	NA	0.6	0.1	0.7	0.0	0.3	NA	
Netherlands											
Austria	4	78 989	0.2	NA	NA	NA	NA	NA	NA	NA	
Poland	2	402 826	0.5	0.3	NA	NA	NA	12.3	0.3	0.3	
Portugal	7	101 495	0.4	NA	NA	NA	NA	11.9	0.7	0.0	
Romania	5	213 055	0.4	NA	NA	NA	NA	NA	NA	0.0	
Slovenia	1	22 000	0.4	NA	NA	NA	NA	8.8	0.4	NA	
Slovakia											
Finland	1,5	60 421	0.1	NA	NA	NA	NA	22.7	0.4	0.3	
Sweden	1	113 488	0.1	NA	NA	NA	NA	NA	0.1	0.7	
United Kingdom											
UK: Wales	6,7	32 649	NA	NA	NA	NA	NA	NA	0.0	0.2	
UK: Scotland	2	56 529	0.1	NA	NA	NA	NA	NA	0.2	0.0	
Iceland	1+4	4834	0.6	0.4	NA	NA	NA	NA	0.2	0.0	
Norway	1	61 539	0.5	18.4	NA	NA	NA	18.0	0.3	0.1	
Switzerland	3	78 784	0.6	2.3	NA	NA	NA	10.1	0.7	0.4	

	2.2	Number of women	Rates per 1000 women Blood transfusion							
Country/coverage	Source		Eclampsia	ICU admission	3 units or more	5 units or more	Other amount	No units specified	Hysterectomy	Embolisation
Belgium										
Czech Republic	1	114 407	0.2						0.3	
Denmark	1	62 203	0.5							
Germany	1	625 615	0.6	4.9	NA	NA	14.3	NA	1.0	0.0
Estonia	1	15 646	0.3		NA	NA	NA	3.9	1.3	
Ireland										
Greece										
Spain										
ES: Catalonia										
ES: Valencia	6	37 236	0.3		NA	NA	NA	8.1	0.5	
France	5	832 799	0.9	2.0	NA	NA	NA	6.5	0.7	1.4
Italy										
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Latvia	1	19 003	0.9		NA	NA	NA	3.9	1.2	
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Romania	5	213 055	0.4							0.0
Slovenia	1	22 000	0.4		NA	NA	NA	8.8	0.4	
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Lack of knowle dge on SAMM in Europe

Lessons from EURO-Peristat II project

• Results are not contributive:

- Over 50% of missing data
- Only 5/32 member-states were able to provide all the criterion of SAMM
- Wide variability for results between countries

1 to 9 ratio for eclampsia / 1 to 14 for embolizations / 1 to 227 for transfusions

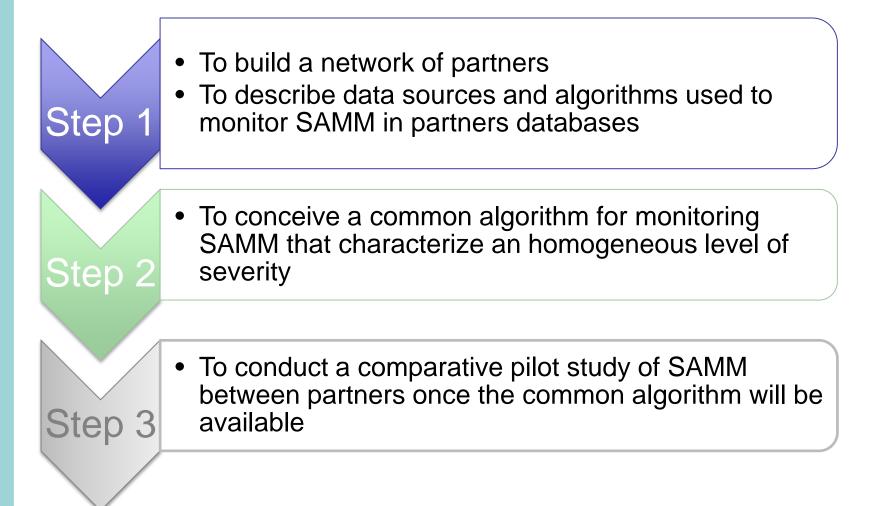
Nevertheless,

- All countries have permanent databases that could be used (hospital discharge databases or perinatal registers, *etc...*)
- Variations may be due:
 - . To real differences
 - . To definition interpretations
 - . To an heterogeneous accuracy of the coding of events in databases

In the objective to improve the knoweldge on SAMM in Europe, we have built a research project

The EURONET-SAMM project

General objective: To assess the feasibility to study SAMM in Europe with a common definition from permanent databases



Network of 15 partners from 13 countries



	Belgium					
	Denmark					
	France					
-	Finland					
	Germany	A 6 4				
	Italy	3445				
	Latvia	1213				
	Netherlands					
	Poland					
	Portugal					
.	Slovenia					
+	Switzerland					
	United Kingdom (England/ Scotland/ Wales)					



EURONET-SAMM methodology and calendar

Grants: 25 K€ from French Institut de REcherche en Santé Publique - IRESP **Duration:** 1 year (from January 2016 to December 2016)

Step 1	 To build a network of partners To describe datasources and algorithms used to survey SAMM in partners databases 	Sollicitation and questionnaires	January - March 2016
Step 2	• To conceive a common algorithm of SAMM that characterize homogeneous level of severity	Analyses of the questionnaires + meeting to achieve a consensus	April-June 2016
Step 3	• To conduct a comparative pilot study of SAMM between partners once the common algorithm will be available	Partners conduct their analyses + exchanges of aggregate data	June – December 2016

Thank you for your attention