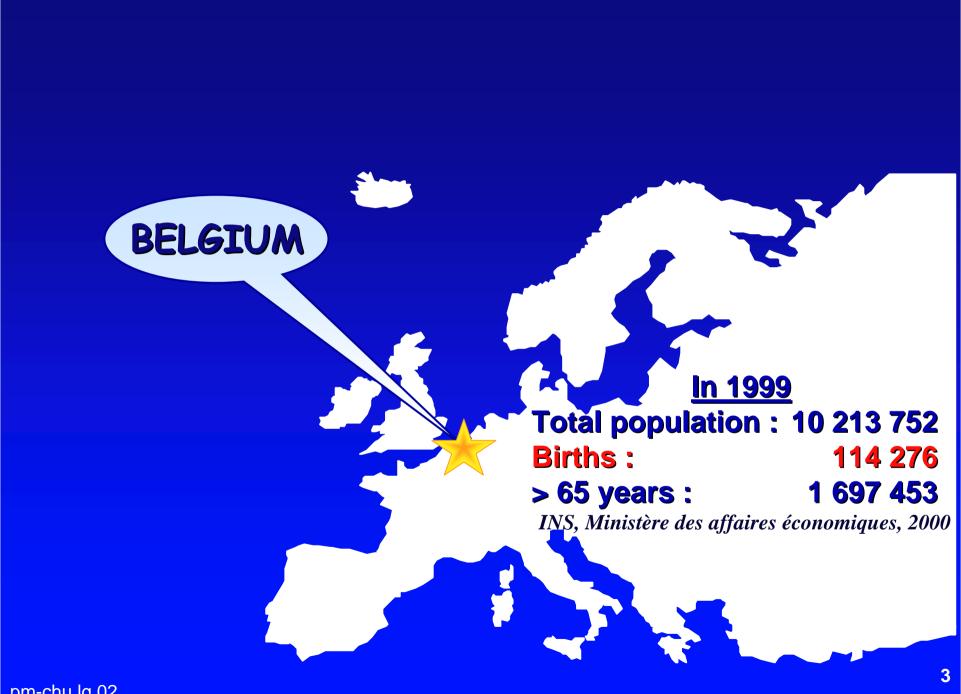


Towards a Belgian Consensus for Prevention of Perinatal Group B Streptococcal Disease

Pierrette Melin Belgian reference Laboratory for GBS Medical microbiology, University of Liege

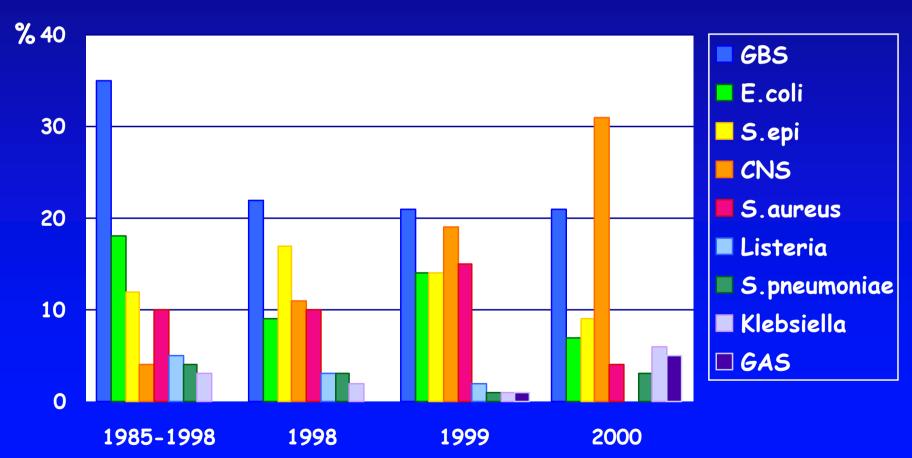
Belgian GBS Key Steps

- 4 1985, A thesis at University of Liege
- ♦ 1985-1994 Several local studies
- ♦ Since 1995, Belgian GBS reference laboratory
- 1998-2000, Regional surveys and multi-centric studies
- 2001, "Consensus" meeting
- End 2001, "Guidelines" by Belgian Associations of Gynecologists and Obstetricians
- June 2002, Working group appointed by Ministry of Health
- End 2002, Expected launch of Belgian guidelines



Belgian Epidemiology

Occurrence of pathogens in neonatal (0-28 D) septicemia and meningitis (ISP Lab.Network)



Neonatal GBS Early Onset Disease Belgian Background in 2001

- ◆ 1999-2001, EOD:LOD = 4:1
- Meningitis: 10 %
- Mortality > 14 %
- ◆ Incidence
 - 1985: 3/1000 live births
 - 1990: 3/1000 live births + 4/1000 likely cases
 - ◆ 1999, estimated : 2/1000
- 60 % EOD had NO maternal risk factor
- Prenatal screening, vagina/rectum: 13-25 %

Prevention of neonatal GBS EOD From where are we coming?



- 2 mail surveys:
- French Community,
 1998-1999
 P.Melin, 40th ICAAC, #1746,
 2000
- Flemish Community, 1999

L.Mahieu, 2000, J Obst Gyn; <u>5</u>:460-4

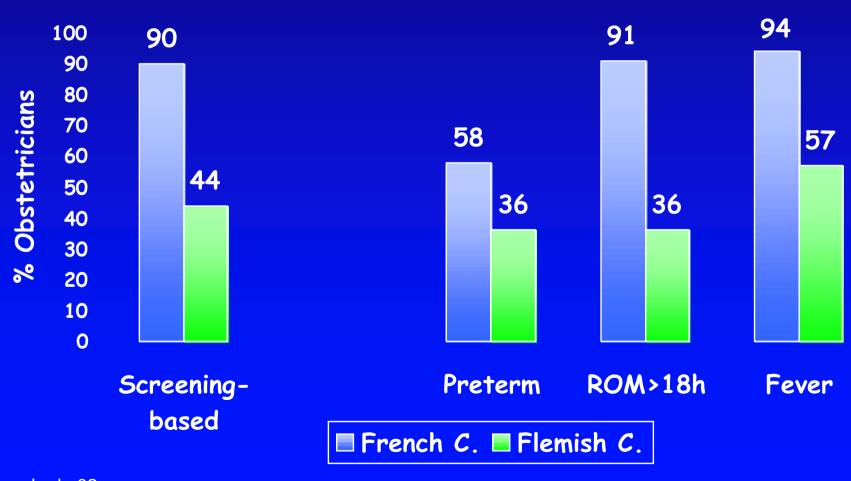
Practices Related to Prevention of Neonatal GBS EOD

- Objective of surveys: to measure "GBS" practices
 - Evaluation by comparison to CDC 1996 guidelines
 - As baseline before national expert consensus guidelines
- Design
 - Setting
 - French Community(Fr) and Flemish Community (Fl)
 - Participants
 - All obstetric departments supervisors (Fr), all obstetricians (Fl and Fr) and all microbiologists (Fr)
 - Mail survey, November 1998-March 1999

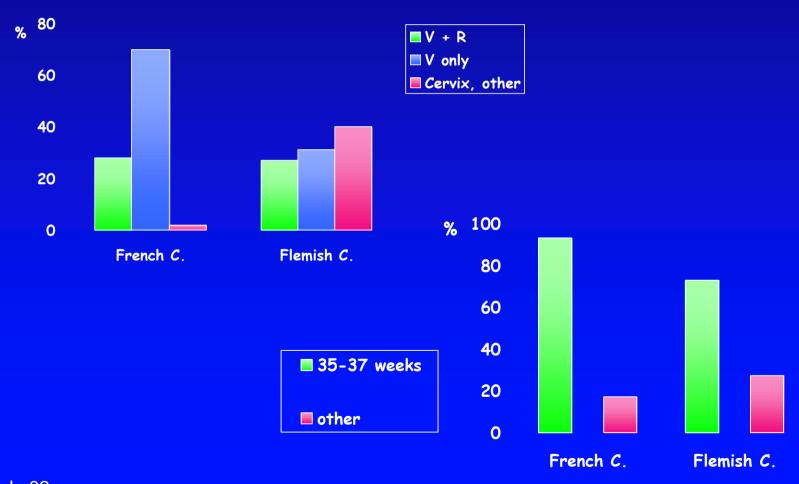
Practices related to Prevention of Neonatal GBS EOD in Belgium

- Questions related to
 - Demographic data
 - Knowledge of neonatal GBS disease
 - Attitudes and practices related to screening and intrapartum prophylaxis
 - Swabs, timing, proportion of women screened, RF, IAP (who, timing, regimen), laboratory processing
- Main outcome
 - Proportion of hospital policy and individual practice according CDC 1996 guidelines

Obstetricians' Compliance with CDC guidelines - Approaches

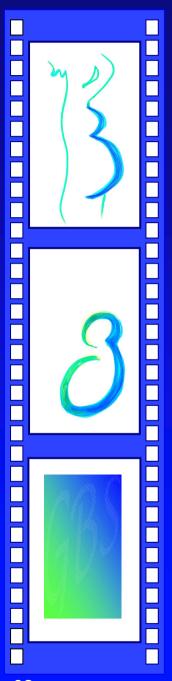


Obstetricians' Compliance with CDC guidelines - Screening



Compliance with CDC guidelines

- > Intrapartum antibioprophylaxis:
 - Penicillin as first choice ~ 20 %
 - Dosage and schedule : frequently inadequate
 - ◆ In Northern Belgium : 15 % oral route
- Prenatal screening:
 - Rarely use of selective broth
- > Geographical differences
- > OB with < 10 years practice : the bests
- > Hospital policy (Fr.C), total agreement : 30%
- > Lack of partners' coordination



Perinatal Group B Streptococcal Diseases Towards a Belgian Consensus

November 17, 2001

Invited attendance:

Obstetricians Neonatologists Medical microbiologists Infectious disease specialists

Foreign invited speakers: S. Schrag, CDC, USA D. Davies, Calgary, Canada B. Brodeur, Laval, Canada M. de la Rosa, Granada, Spain

Supported by professional associations

"Towards a Belgian consensus" - Program

- Worldwide and Belgian GBS burden
- Guidelines for prevention
 - Comparative cost-effectiveness of different approaches
 - Successes and adverse effects
- Management of neonates with risk factors for GBS disease
- Microbiology, logistic and special problems
- Vaccine perspective
- Belgian survey
- Interactive session

"Towards a Belgian consensus" Interactive session

- Voting and discussion panel
- Demographic data
- Data about their current policy
- To reach a consensus
 - Cut-off ≥ 80 % of agreement



Perinatal Group B Streptococcal Diseases Towards a Belgian consensus

- > Support for universal prenatal GBS screening-based approach: 93 %
- Support for Penicillin G as the 1st choice: 92 %
- Integration of selective postnatal antibioprophylaxis for neonates at high risk: 79 %
- Ready for an intrapartum rapid screening-based approach when available: 47 %

"Towards a Belgian consensus" Follow-up

- Belgian Ministry of Health
 - *A GBS working group appointed
 - Drafting of recommendations for the prevention of perinatal GBS disease
 - ◆Expected deadline: end 2002
- European workshop
 - GBS neonatal disease prevention, Granada, November 2002

Belgian Challenge = To prevent annually > 200 cases of neonatal GBS EOD



Co-organizers of "Consensus" meeting

Gerda Verschraegen, Univ. Gent Ludo Mahieu, Univ. Antwerpen Geert Claeys, Univ. Gent

Collaborators, Univ. Liege
Jean-Michel Foidart
Patrick De Mol
Myriam Schmitz
Isabelle Heinrichs