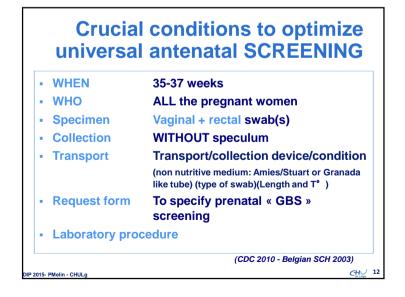
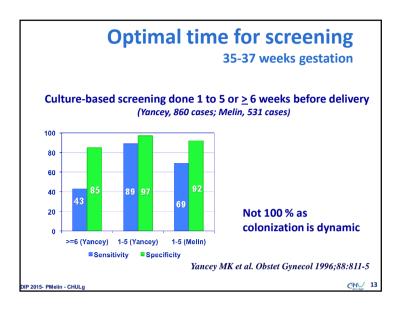


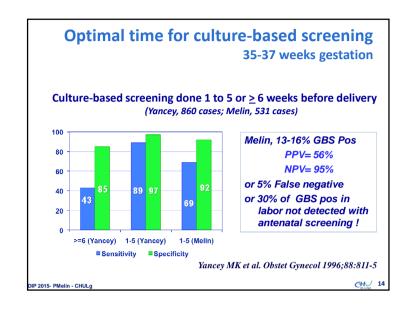
CHU 11

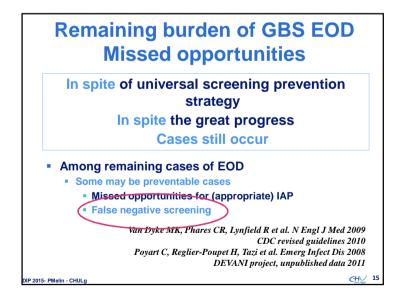
Screening for GBS colonization Goal of GBS screening To predict GBS vaginal (rectal) colonization at the time of delivery Expected high predictive values ■ False negative → Missed IAP ■ "False" positive → Unnecessary IAP

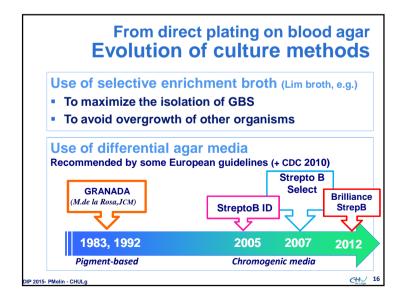


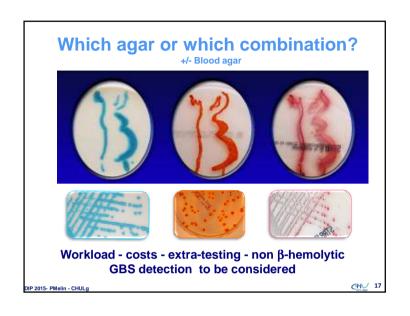
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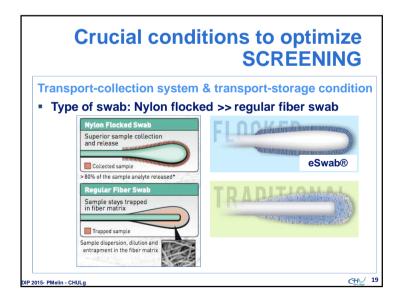


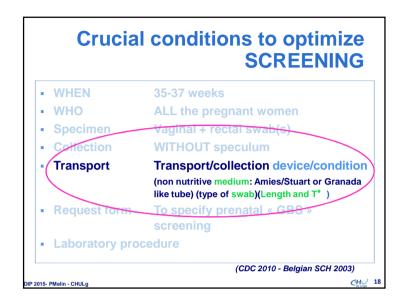


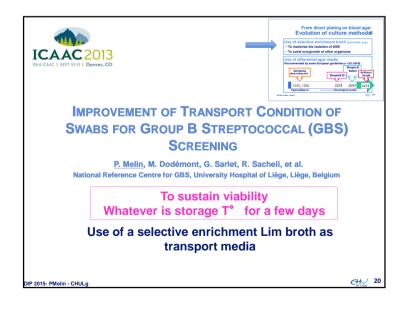




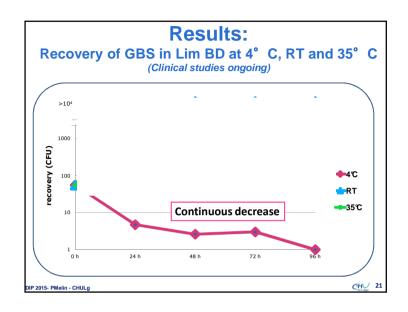


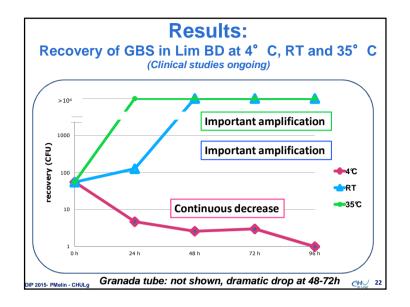


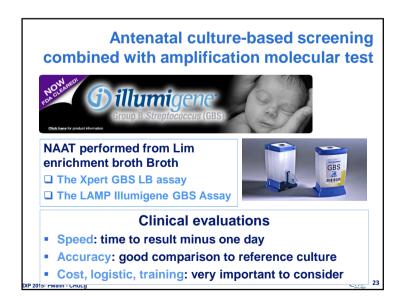


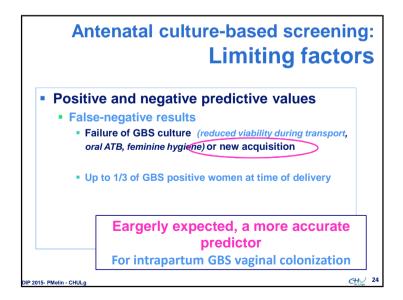


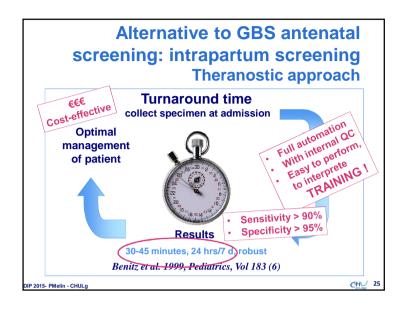
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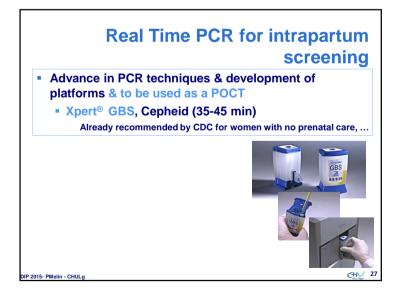




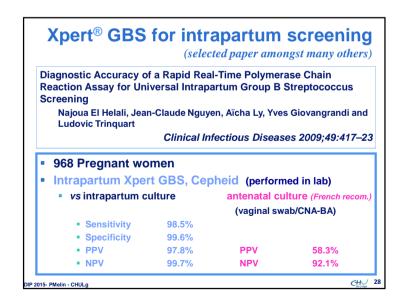








Intrapartum screening theranostic approach Expected advantages: pro & con Inclusion of women without prenatal screening/care Identification of women with change of GBS status after 35-37 wks gestation (new acquisition, false negative) Increased accuracy of vaginal GBS colonization status at time of labor & delivery Drawback: no antimicrobial susceptibility result IAP addressed to right target Reduction of inappropriate/unnecessary IAP Broader coverage of « at GBS risk women » Improvement of prevention



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Xpert® GBS for intrapartum screening (selected paper amongst many others) Cost and effectiveness of intrapartum group B streptococcus polymerase chain reaction screening for term deliveries. El Helali N, Giovangrandi Y, Guyot K, Chevet K, Gutmann L, Durand-Zaleski I Obstet Gynecol 2012 Apr;119 (4):822-9 2010 2009 **Xpert GBS intrapartum screening** Antenatal screening Performed by midwives as a POCT !! 11.7% GBS POS 16.7% GBS POS Less GBS EOD & less severe Cost neutral per delivery

CHU 29

	screening
 Advance in PCR techniques & develop platforms & to be used as a POCT 	opment of
 Xpert[®] GBS, Cepheid (35-45 min) Already recommended by CDC for women 	with no prenatal care, .
Easy BUT Midwives teams: numbers, turn-over TRAINING is essential Sample preparation Proper breaking the swab into the cartridge Loading the instrument To be used under lab control	GBS

				rtum screenin (main pape			
Authors	Year Journal	Nb patients	Site	\$ %	Sp %	PPV %	NPV %
Mueller et al	2014, Eur J Obstet Gynecol Reprod Biol	150 & 150	Lab Obst	85.7 85.7	96 95.6	82.7 85.7	96.7 95.6
Poncelet et al	2013, BJOG	225	Lab	66.7	94.9	64.3	95.4
Abdelazim	2013, Aust NZ Obstet Gynaecol	445	Lab	98.3	99	97.4	99.4
Park et al	2013 Ann Lab Med	175	Lab	86.6	95.6	65	98.7
Church et al	2011 Diag Microbiol Infect Dis	231	Lab	100	100	100	100
De Tejada et al	2011 Clin Microbiol Infect	695	Obst	85	96.6	85.7	96.3
Young et al	2011, Am J Obstet Gynecol	559	Lab	90.8	97.6	92.2	97.1
El Helali et al	2009, Clin Inf Dis	968	Lab	98.6	99.6	97.8	99.7



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