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Assay				Assay Versi	on Assay Type	
xpert GB	5 63			3	In vitro Diagnostic	
Test Result:		POSITIVE				Presence of GBS
Test an	d Analyte	Result				
Analyte Name	Ct	EndPt	Analyte Result	Probe Check Result		
SPC	34.4	108.0	NA	PASS		
GBS	34.1	188.0	POS	PASS		
IC	31.0	149.0	NA	PASS		
Test Re	sult:	NEGATIVE				Negative for GBS









Xpert [®]	[®] GBS for	r intra	apar	tun	n sc	reei main j	ning
Authors	Year Journal	Nb patients	Site	S %	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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Tetracycline Resistar	nce
 The most frequent antimicrobial resistance mark > 85% of GBS isolated from human infection 	(er
Streptococcus agalactiae clones infecting huma were selected and fixed through the extensive u tetracycline	ans ise of
By V. Dacunha, MR. Davies,, C. Poyart and P. Glaser	
In Nat Commun. 2014 Aug 4;5:4544. doi: 10.1038/ncomms	5544.
twerpen 2015- PMelin – CHULg –NRC-GBS	C ₩Ų 7





Antibiotics	About Resistance	Epidemio. surveillance by Nat.Ref.C.	AST - Routine lab methods
Penicillin and other β-lactams	 Still very rare Possibly unrecognized 	Mandatory	Initial screening by with 3-disks diffusion To implement in clinical labs worldwide ?
Erythromycin – Clindamycin	Globally on the rise National differences Evolution of genetic supports L phenotype emerging	Mandatory	AST for E & C D-zone Test synergy testing if E R Already recommended
Gentamicin	 Emerging in some countries Not routinely screened 	Mandatory	HLR determination for severe infections Method ???
Fluoroquinolones	 Emerging in Asia Rare elsewhere 	Mandatory	No special trick



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