

PeriGen[®]

Patient Safety Business Case

The Next Generation deserves a Next Generation EFM

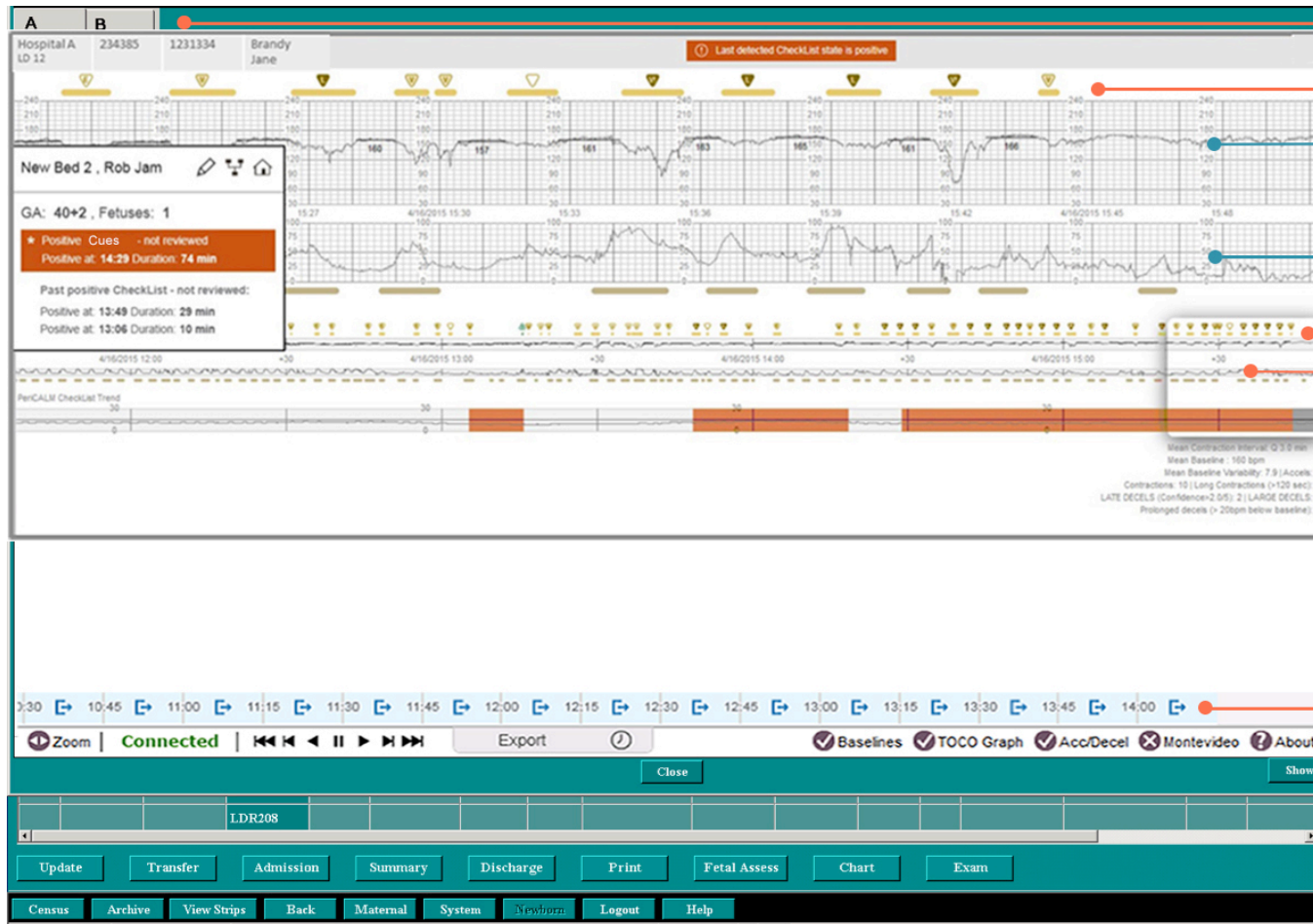
Your Labor & Delivery Challenges

- **Improve outcomes/unit metrics**
 - Prospect metrics cited here
 - Control unnecessary cesarean sections
 - Reduce NICU admissions & need for fetal resuscitation
- **Management tools that supply visibility of patient status & clinical performance**
- **Standardize care**
 - Common terminology, better communications
 - Minimize variation in reading the EFM tracing
 - Support new nurses as they learn EFM interpretation
 - Prevent “interpretation drift”
- **Improve productivity, more patient time**
 - Improve data sharing across systems
 - Make entry easy
 - Provide comprehensive care information at point of care and in EMR
 - Customized reporting
 - Eliminate double entry

Improve Outcomes

- Unique research-driven tools designed to aid assessments of fetal heart rates & labor progress
- Only EFM associated with research showing:
 - 52% reduction in NICU transfers
 - 54% reduction in fetal resuscitations
 - Stabilization of cesarean section rate despite increase in complexity of patient population
 - 36.6% reduction in time spent in uterine tachysystole

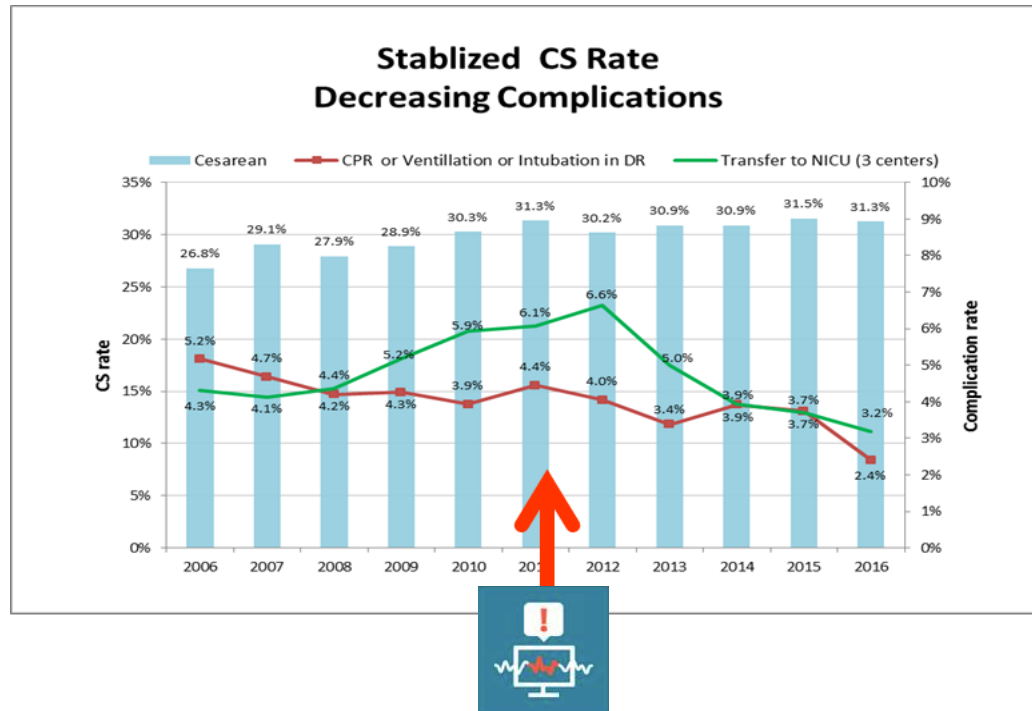
PeriGen EFM Analysis



- Twin Selection
- FHR Patterns
- Fetal Heart Rate
- Contractions
- 4-Hour View
- Detail Slider
- Trend Analysis
- Summary Data

Export Selector

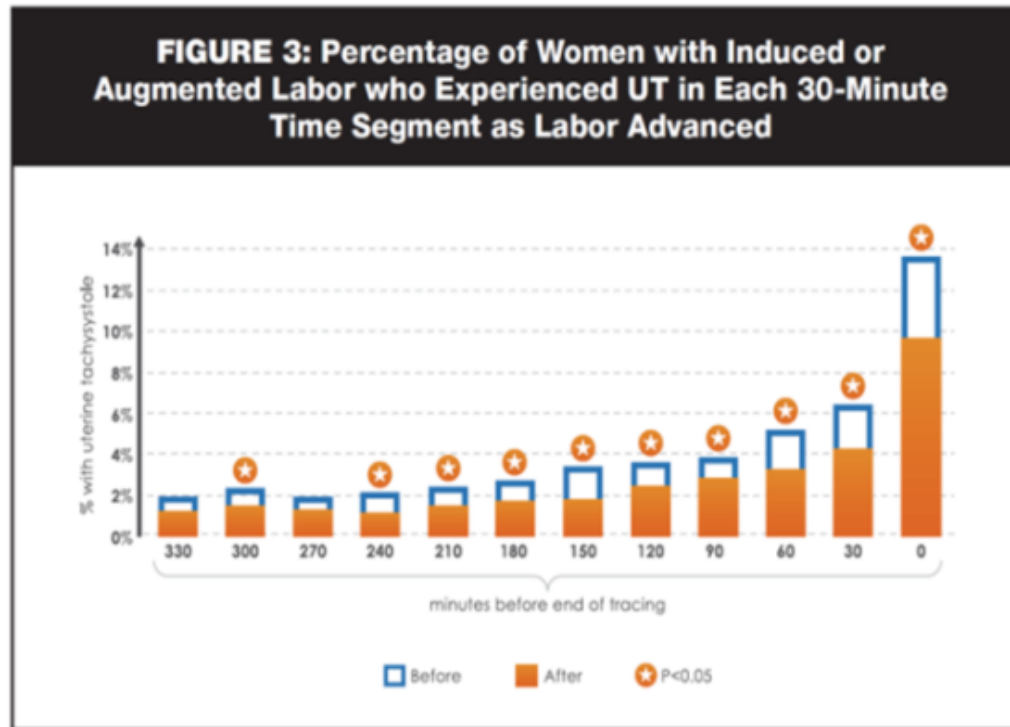
Impact on Cesareans & NICU Admissions



Despite sharp increases in risk factors associated with childbirth complications, one system saw NICU admissions and resuscitations decline and the rate of cesareans remain stable after implementation of PeriGen software

*Samuel Smith MD, Lynette Philip RN, Adi Zmiri MD, Emily Hamilton MD, Thomas Garite MD "HIT and clinical synergy: A decade of decreasing NICU admissions & stabilizing cesarean rates" Becker's Health IT & CIO Review, Dec. 20, 2016

Impact on Uterine Tachysystole

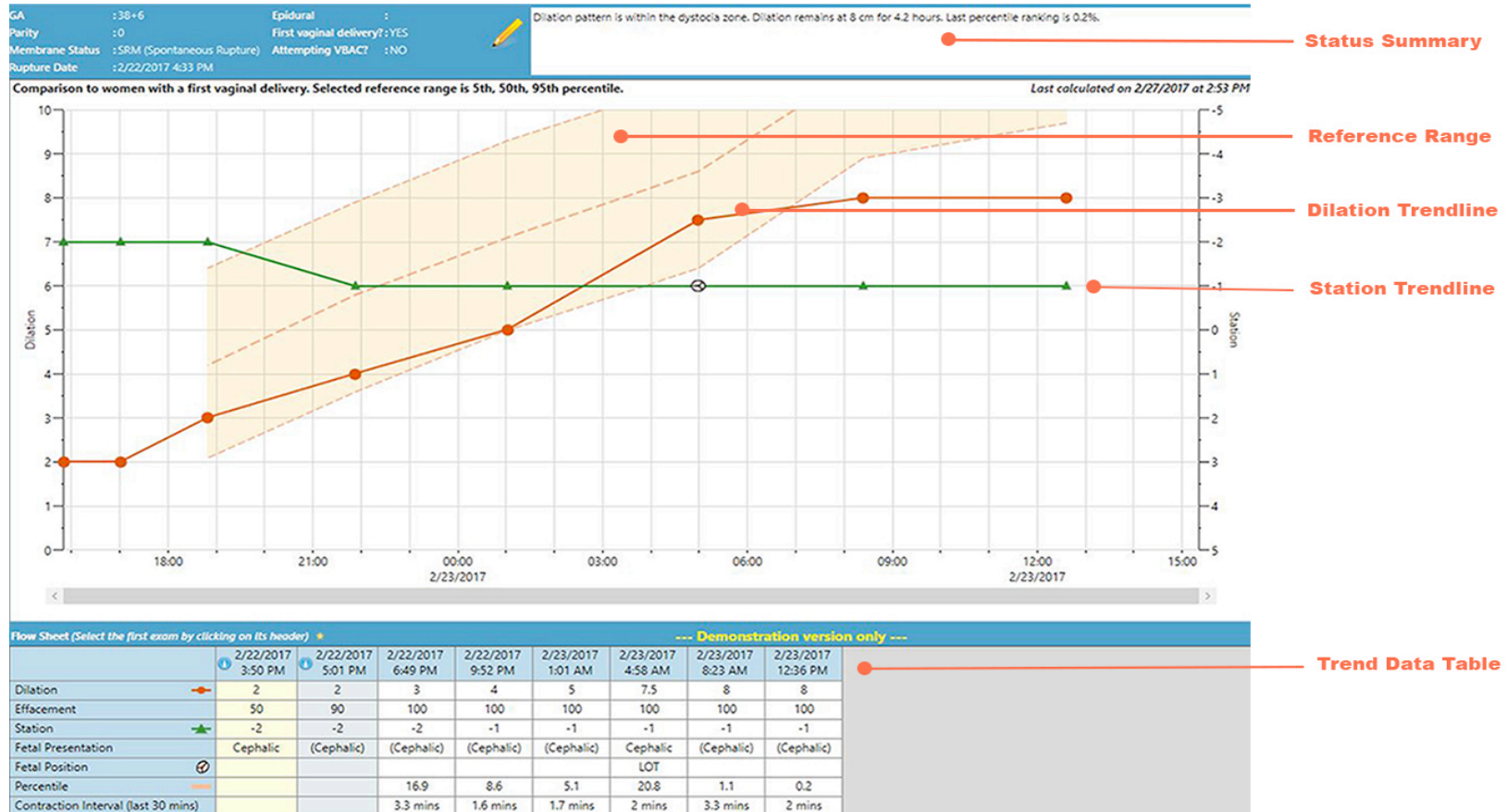


Study of 10,518 term labors found a 36.6% reduction in time spent in uterine tachysystole for patients receiving oxytocin

Smith S, Bunting C, Hamilton E. Using Intelligent Electronic Fetal Monitoring Software to Reduce Iatrogenic Complications of Childbirth. JHIM 2014;28(4):28-33

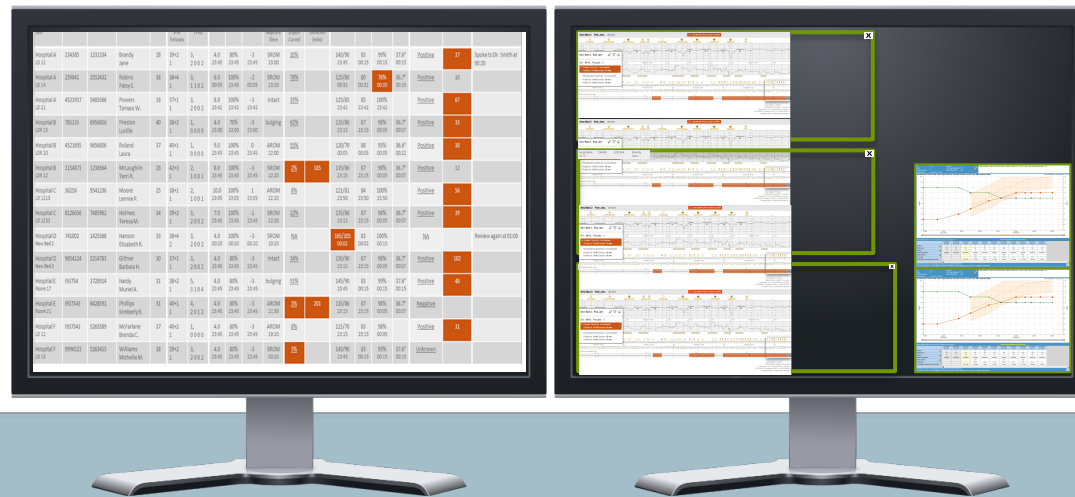
The PeriGen Curve™

A real-time, adaptive view of labor progress that can be used earlier in labor



L&D Management Tools

Interactive early warning dashboard to identify patients meeting defined EFM, vitals, and/or labor progress parameters for priority review



PeriGen HUB™

PeriGen HUB (14/48)

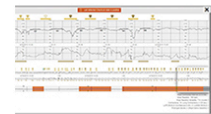
Patient Identifiers				OB		Exam			Curve		Vital Signs			Cues		Local Notes			
Facility	MRN	Account No	Patient	Age	GA	G ₁	Dil	Eff	Sta	P	O2 Sat	Temp	Status	Persistence (min.)	Comment				
Bed					# of Fetuses	TPAL				bp(mm)									
Hospital A LD 12	234385	1231334	Brandy Jane	28	39+2 1	3, 2 0 0 2	4.0 23:45	80% 23:45	-	83 10:15	99% 00:15	37.6° 00:15	Positive	37	Spoke to Dr. Smith at 00:20				
Hospital A LD 14	259841	2552432	Robins Patsy E.	38	38+4 1	3, 1 1 1 0 2	6.0 00:05	100% 23:45	00	80 10:32	78% 00:35	36.7° 00:15	Positive	10					
Hospital A LD 21	4521937	5683566	Powers Tamara W.	18	37+1 1	3, 2 0 0 2	8.0 23:42	100% 23:42	-	85 13:42	100% 23:42		Positive	67					
Hospital B LDR 15	785133	6956856	Preston Lucille	40	38+2 1	1, 0 0 0 0	4.0 23:00	70% 23:00	-3 23:00	bulging	62%		135/86 23:15	87 23:15	98% 00:05	36.7° 00:07	Positive	33	
Hospital B LDR 20	4521695	9656856	Roland Laura	37	40+1 1	1, 0 0 0 0	9.0 23:45	100% 23:45	0 23:45	AROM 22:00	55%		120/70 00:05	88 00:05	95% 00:05	36.6° 00:22	Positive	38	
Hospital B LDR 22	1154871	1238564	McLaughlin Terri R.	28	42+3 1	2, 1 0 0 1	8.0 23:45	100% 23:45	-3 23:45	SROM 22:20	2%	185	135/86 23:15	87 23:15	98% 00:05	36.7° 00:07	Positive	12	
Hospital C LD 1213	36258	9541236	Moore Lennie P.	25	38+1 1	2, 1 0 0 1	10.0 23:05	100% 23:05	1 23:05	AROM 22:20	8%		121/81 23:50	84 23:50	100% 23:50		Positive	56	
Hospital C LD 1233	8126656	7485962	Holmes Teresa M.	34	39+2 1	3, 2 0 0 2	7.0 23:45	100% 23:45	-1 23:45	SROM 22:20	22%		135/86 23:15	87 23:15	98% 00:05	36.7° 00:07	Positive	39	
Hospital D New Bed 2	741002	1425368	Hanson Elizabeth R.	33	38+4 2	3, 2 0 0 2	4.0 00:20	100% 00:20	-3 00:20	SROM 20:20	NA		165/105 00:02	83 00:02	100% 00:15		NA		Review again at 01:00
Hospital D New Bed 3	9854124	5214783	Giltner Barbara H.	30	37+1 1	3, 2 0 0 2	4.0 23:45	80% 23:45	-3 23:45	Intact	34%		150/90 23:15	87 23:15	98% 00:05	36.7° 00:07	Positive	102	
Hospital E Room 17	193754	3728914	Hardy Muriel A.	31	38+2 1	5, 3 1 0 4	4.0 23:45	80% 23:45	-3 23:45	bulging	51%		145/90 23:45	83 00:15	99% 00:15	37.6° 00:15	Positive	48	
Hospital E Room 21	1937543	6428591	Phillips Kimberly R.	31	40+1 1	4, 2 0 1 2	4.0 23:45	80% 23:45	-3 23:45	AROM 21:30	3%	201	135/86 23:15	87 23:15	98% 00:05	36.7° 00:07	Negative		
Hospital F LD 12	1937543	5263589	McFarlane Brenda C.	37	40+2 1	1, 0 0 0 0	4.0 23:45	80% 23:45	-3 23:45	AROM 19:20	8%		115/70 23:15	83 23:15	98% 00:05		Positive	31	
Hospital F LD 13	9996523	5263415	Williams Michelle M.	38	39+2 1	3, 2 0 0 2	4.0 23:45	80% 23:45	-3 23:45	SROM 00:20	3%		145/90 23:45	83 00:15	99% 00:15	37.6° 00:15	Unknown		

Sortable Columns

Patient filter

Vitals Notification

Cues Notification

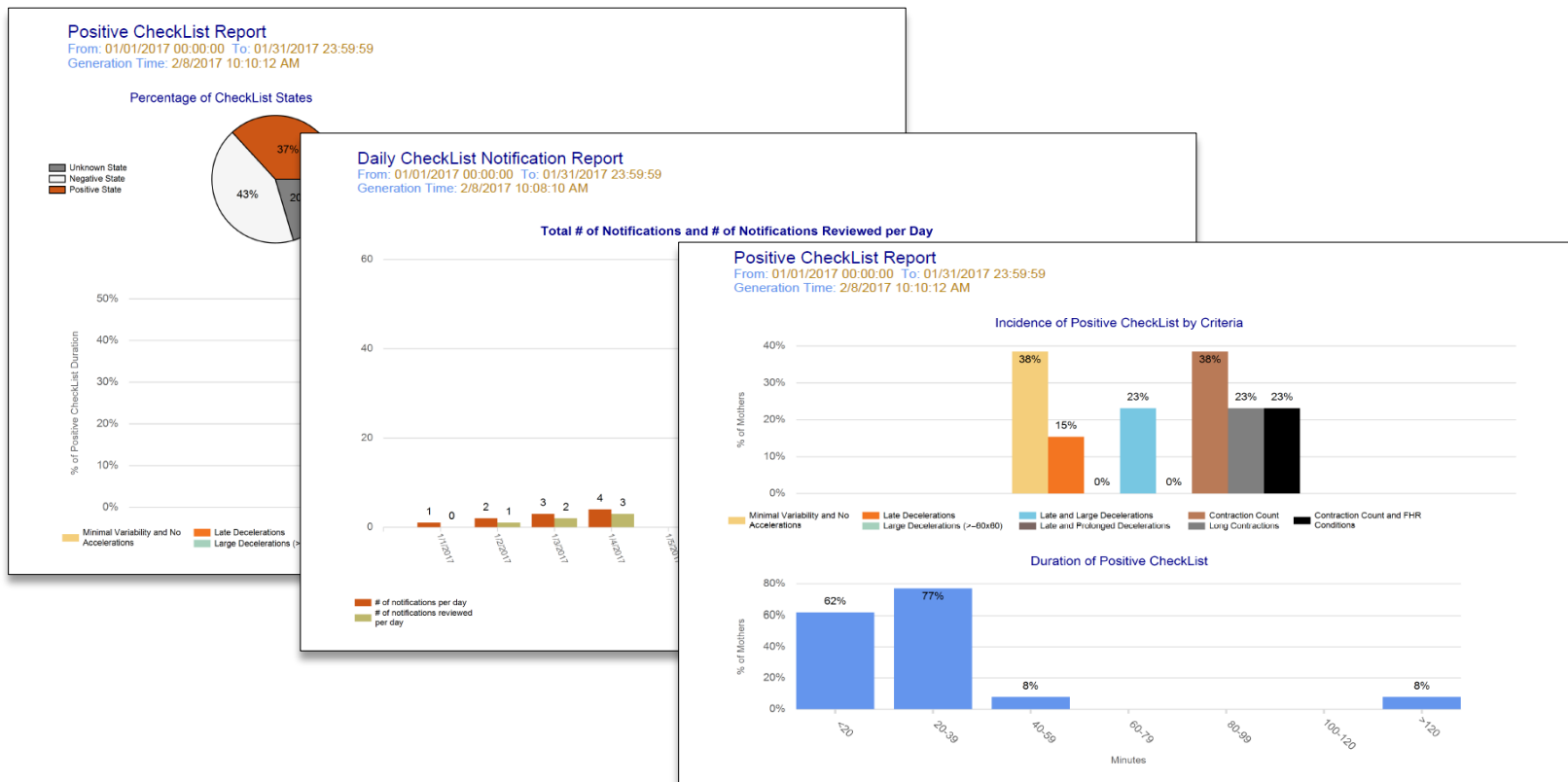


Progress Notification



PeriGen Reporting

Reporting designed to provide the metrics & benchmarks needed to enable patient safety program improvement



Standardize interpretation & care

- Based on NICHD terminology to facilitate communication
- Supports new nurses as they learn EFM interpretation
- Promotes assessment agreement
 - Helps overcome “assessment drift”
 - Unified view of trends of concern

Impact on Standardization

Patterns 2.01	Human Reported inter-observer Proportion of Agreement %	PeriWatch Cues Proportion of Agreement %	PeriWatch Cues Detection Rate (Sensitivity) %
Variable decelerations	27-60	84	94
Late decelerations	24-48	68	96
Early decelerations	31-55	83	74
Prolonged decelerations		85	91
Accelerations	52-56	99	68
Contractions		94	83

Compared to agreement between clinicians, PeriGen’s analytic software showed an increased rate of agreement with assessments by experts as well as an increased rate of detection.



Improved unit productivity

- Data collection at time of monitor connection
- All documentation on the strip
- Complete data view & flow out of and into EMR
 - Vitals, EFM, assessments/observations, meds
- Pop-up alerts
- Elimination of double charting
 - Windowed views of EMR & EFM on single monitor
- Keyword search
- Prenatal – to – NICU Level 3 documentation
- 96 hours of data stored, even when EMR down

The Company We Keep

Some of today's top patient-safety focused health systems & hospitals in America use PeriGen to support better perinatal decision making



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Why PeriGen Now?

- Help improve outcomes
 - Your metrics, your goals
- Gain visibility of clinical performance
- Help standardize care
- Help boost unit efficiency
- Help lower risk, malpractice outlays & reserves