A New Way to Handle Checklists
Featuring Emily Hamilton, MDCM
Senior Vice President of Clinical Research

An experienced obstetrician, Dr. Hamilton is currently an Adjunct Professor of Obstetrics and Gynecology at McGill University, as well as leading PeriGen’s clinical research team.

Dr. Hamilton is an inventor of the PeriCALM advanced fetal monitoring system, holding 30 US and international patents for her research work. She is an internationally-known clinical thought leader on the use of technology to improve obstetric outcomes. She presents her research regularly at obstetric conferences and in peer-reviewed journals.
WHO Surgical Checklist

- 47% reduction in Deaths
- 27% reduction in-patient complications

Mechanical ventilation
- 50% shorter LOS
- 25% fewer infections

Pain Control
- Untreated pain: 43% to 3%
- Non Compliance: 70% to 4%

Central Line Insertion
- 63% fewer Infections
- Infection rates from worst to best 25th to 90th percentile
- 1500 lives saved in 8 months
- 175 million$ savings

Checklist Successes

Savings: 175 million$
HCA Oxytocin Checklist

34% reduction in NICU Admissions
4.4% - 2.9%

16% reduction in CS rate
18.8% to 15.8%


Oxytocin MisUse is Common in Legal cases

66% - 45%
70% - 47%
Oxytocin Checklist

Criteria for continuation of oxytocin

In each 30 minute segment, each of the following elements must be seen,

- ✔ At least 1 acceleration of 15 bpm x 15 seconds in 30 minutes or moderate variability for 10 of the previous 30 minutes
- ✔ No more than 1 late deceleration
- ✔ No more than 2 Variable decelerations exceeding 60 seconds in duration and decreasing greater than 60 bpm from the baseline.
- ✔ No more than 5 uterine contractions in 10 minutes for any 20 minute interval in the segment
- ✔ No two contractions greater than 120 seconds duration
- ✔ If IUPC is in place, MVU must calculate less than 300 mm Hg and the baseline resting tone must be less than 25 mm Hg.
Introducing a Whole New Way to Manage Oxytocin Checklists
PeriCALM® CheckList™

- **You define** a checklist of EFM features
- **You define** how many per 30 minutes, what size, etc
- PeriCALM CheckList *automatically searches* for these combinations
- Give you an *active visual notification* at bedside and nursing station
- Presents a *color-coded display* so you can see if they are transient or persistent
Patterns CheckList

4 Hour Checklist Trend
- Negative
- Positive
Positive Items are in CAPS

Mean Contraction Interval: Q 1.7 min
Mean Baseline: 136 bpm
Mean Baseline Variability: 11.0 | Accels: 1
CONTRACTIONS: 18 | Long Contractions (>120 sec): 0
Late Decels (Confidence>2.0/5): 0 | Large Decels: 0
Prolonged decels (> 20 bpm below baseline): 0
Live Tool Bar Icon Positive
Contract Response Index Positive with Notification
Informative and Interactive
Central Interactive Listing

- Dynamically Sorted
- Color coded
- Selection
What make Checklists Successful

- Short - Only most important factors
- Apply Consistently
- Develop locally not imposed
- Compliance - measured with feedback
- Evolving
Synergy

1. Critical Info
   • EFM Strip
   • Analysis
   • Displays

2. Meaning
   • Integrate
   • High Level Reasoning

3. Projection
   • Judgement
   • Experience

4. Actions
   • Knowledge
   • Skills
PeriCALM CheckList

Checklists made easier & more consistent

Informative
Efficient
Interactive