


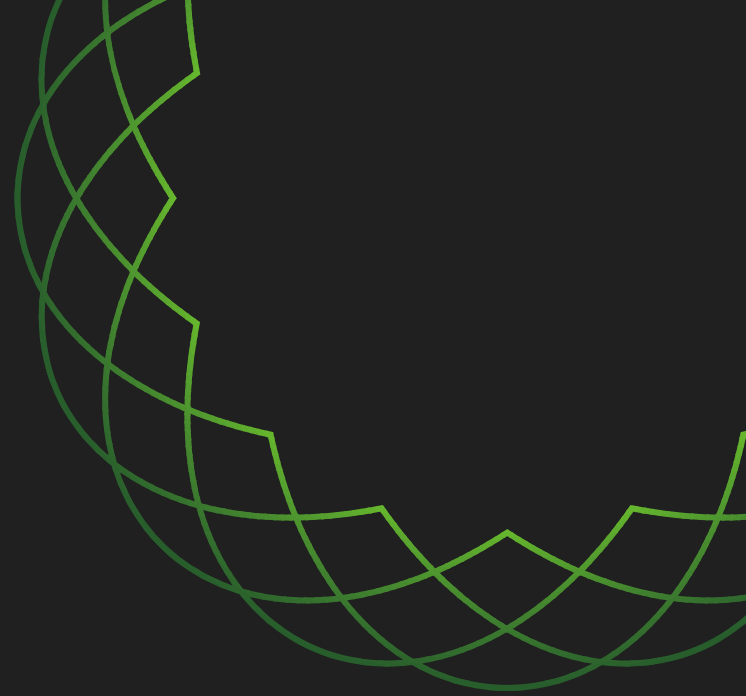
The Life & Times of a Medical Device

Tim Riehm

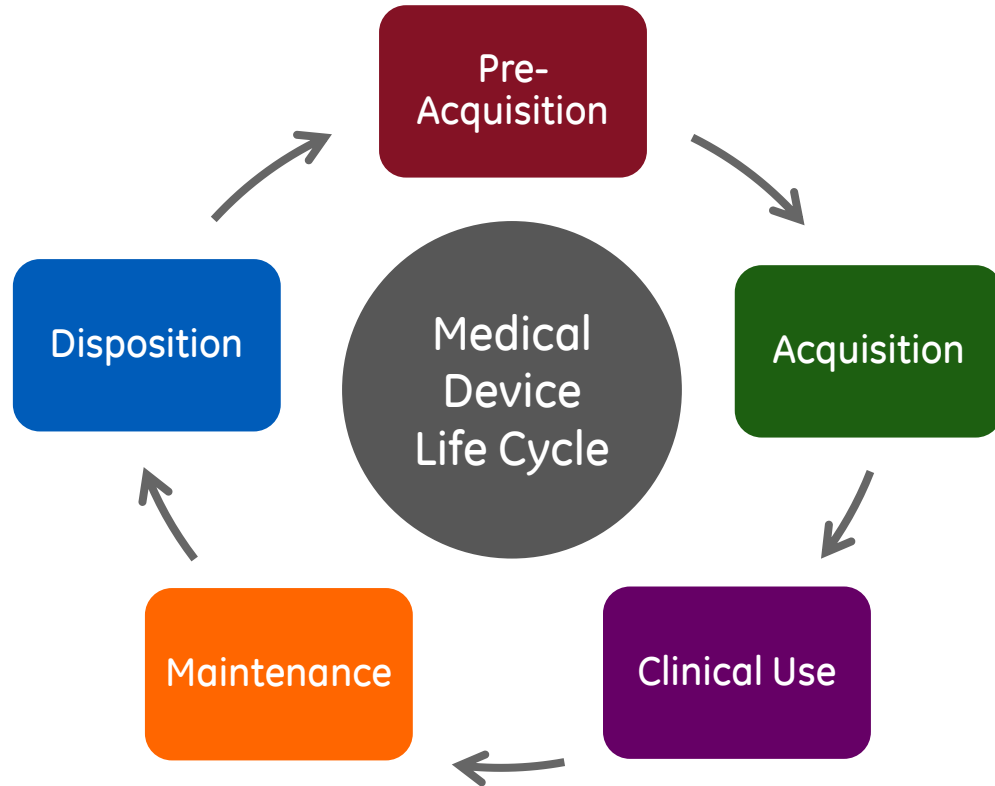
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5 Stages of Medical Devices



Clinical Use

- Integrated data supporting electronic medical records
- Combining disparate data to create meaningful outcomes
- Supply chain consumables
- Sepsis
- Healthcare in home

Sepsis

- Indications include:
 - Documented source of infection
 - 2 or more indications of systemic infection (Temp, BP, RSP, Lab)
 - Organ dysfunction indications from lab results or medical devices
- National healthcare data shows a 28-50% mortality rate
- Every hour of delay in treatment = 7% increase risk of death
- Banner Health data shows a 15% mortality rate

E-Health

Remote Operations Center



Primary Care
Intensivist



Medical
Assistant

Mobile Team



Home Health
Nurse



Health Coach

Home



Patient &
Caregiver

Telehealth Team



iPhysician



iMSW



iRN



iPharmacist



Care
Quarterback



Health Unit
Secretary

Maintenance

- Failure trending analysis
- Total cost of ownership
- Uptime calculations
- Utilization and availability
- Mean time to repair
- Staff productivity



Predictive Remote Diagnostics

- Early failure detection
- Faster repairs
- Scheduled parts replacement
- Reduced unscheduled downtime
- Continuous monitoring
- Increased engineer productivity





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