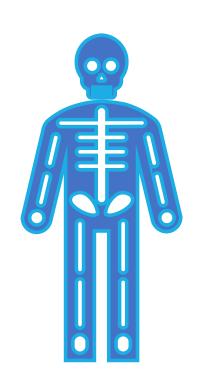


Reducing Health Care Costs Through Better Patient Outcomes

Pegwin Insights[™] is an Artificial Intelligence (AI) platform used to prevent costly medical complications and patient harm while improving hospital financial performance.



PROBLEM



Patient Death Within 30 Days After Surgery

The <u>3rd</u> leading category of mortality worldwide:

Preventable By Early Detection of Postoperative Patient Abnormalities









There Is A Global Unmet Need For Addressing Complications After Surgery

The 3rd leading category of mortality worldwide... In the US alone:

70% of surgeries have complications → 30 million patients

19% of surgeries end with fatalities within 30 days → 5.7 million patients

70% of complications occur within 6-8 hours after surgery



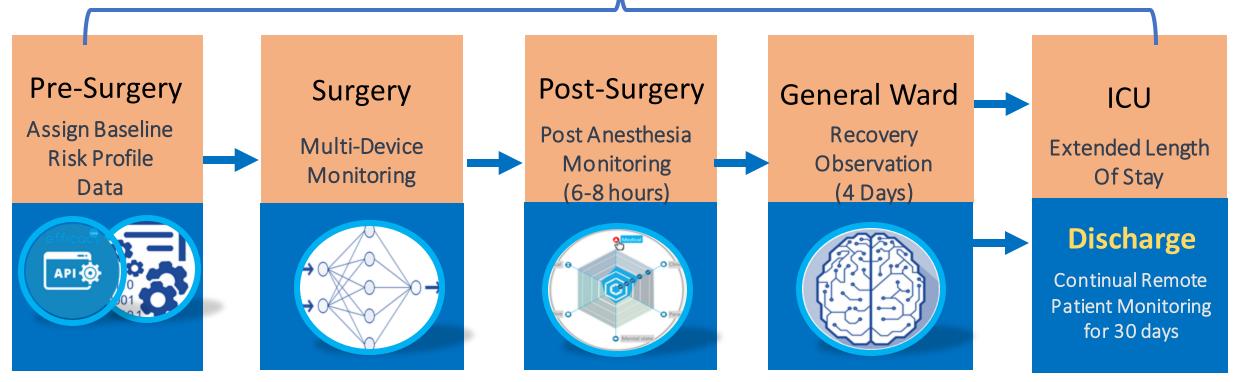






Pegwin Early Detection Leads to Timely Intervention













The preliminary study performed on >15M randomized observations (SMART DST2; SMART STU3; MIT, Harvard, Boston Children's Hospital) showed completeness, computability, and accuracy of the raw data sources (Fast Healthcare Interoperability Resources - FHIR).

RESULTS:

Cross-validated (70/30) **Al-Driven model** demonstrated good discrimination for unplanned ICU Admission - AUC 0.90; 95% CI, 0.76-0.94) and **performed as well, or better than the current models** (C statistic ranges: 0.56–0.74).

The model calibration across different risk categories showed a close association of predicted and observed outcomes –

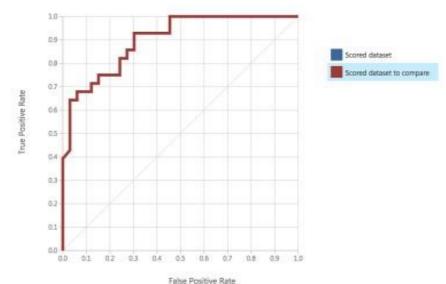
AHRQ Patient Safety Indicators:

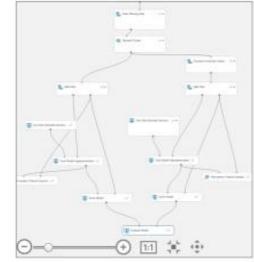
- * PSI 11 Postoperative Respiratory Failure Rate
- * PSI 04 Death Rate among Surgical Inpatients with Serious Treatable Complications

Data citations:

- http://dx.doi.org/10.13026/C2XW26
- http://dx.doi.org/10.1155/2014/781670

Proof of Principle





True Positive 18	False Negative 10	Accuracy 0.820	Precision 0.947	Threshold —— 0.65	 0.900
False Positive	True Negative 32	Recall 0.643	71 Score 0.766		
Positive Label 1	Negative Label				

Score Bin	Positive Examples	Negative Examples	Fraction Above Threshold	Accuracy	F1 Score	Precision	Recall	Negative Precision	Negative Recall	Cumulative AUC
(0.900,1.000)	14	1	0.246	0.754	0.651	0.933	0.500	0.696	0.970	0.012
(0.800,0.900)	3	0	0.295	0.803	0.739	0.944	0.607	0.744	0.970	0.012
(0.700,0.800)	0	0	0.295	0.803	0.739	0.944	0.607	0.744	0.970	0.012







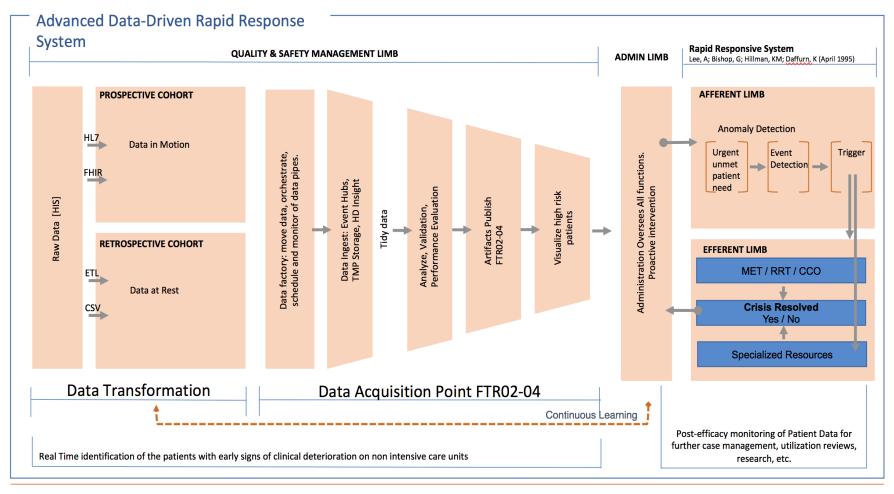


Continuous Health Data Monitoring in Opioids Induced Respiratory Depression in Post Operative Patients

Primarily focused on patients:

- All admissions
- In risk meeting OSA criteria
- Likely to result FTR indicators
- Likely to result in a RRT being called
- Likely to be readmitted within 30 days

- Pneumonia
- Sepsis
- Cardiac Arrest
- Respiratory Distress
- Pulmonary embolism
- DVT



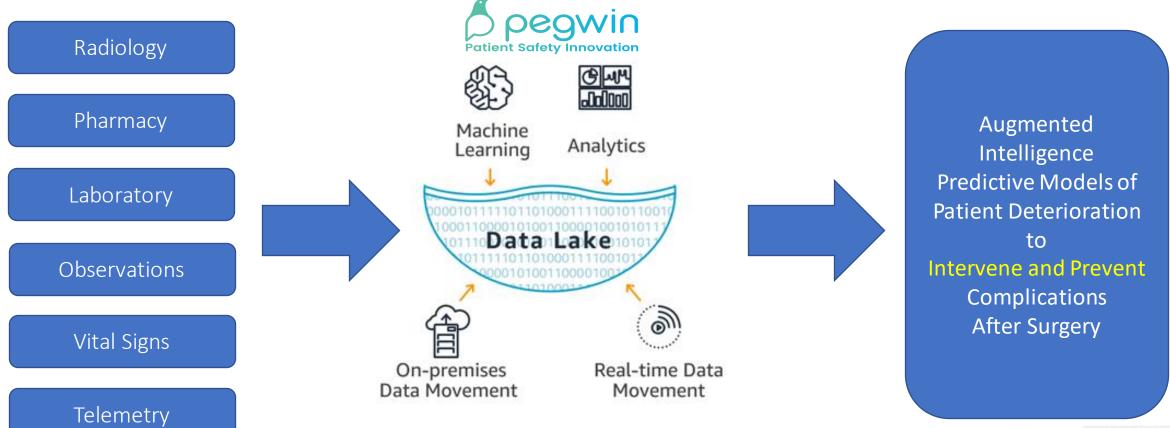








Billions of Data Points & Thousands of Patient Records Power Pegwin's Engine









Compelling Value Proposition

- Prevent Medical Complications Through Early Detection
 - Significant Hospital Revenue Source With High Gross Margins
 - Substantial Cost Reduction Improves Hospital's Bottom Line
 - Better Patient Outcome Through Improved Safety
 - Addresses Potential Racial Bias From Clinical Prognosis
- Huge Market Opportunity
 - Today: Improving Hospital Financial Performance and Patient Outcomes
 - Future: Total Care Management, Ambulatory Surgical Centers (ASCs), Long Term Care (LTAC) Facilities, Remote Patient Monitoring (RPM), Chronic Care Management (CCM), Behavioral Health









Our Comprehensive Approach to Care





Trusted Patient Relationship

• Encouragement • Nurse Coaching • Health Literacy • Engagement • Support



CCM

Medication Adherence

Self-Care

Wt. Management & Exercise

Diet Management

Food as Medicine

Education

Transition Care

Behavioral Health

RPM & Screenings

TVP-Care provides "In-Home" primary care for patients without providers

The focus is on patients requiring that extra touch at home!!



Community-based care by training lay caregivers to become paid "clinical staff"

Fewer Hospital Admissions and Lower Patient Costs



Reducing Costs Through Better Patient Outcomes

Reduced Hospital Costs

- Reduce Length of Stay
- Reduce Admissions to the ICU
- Reduced Procedural Costs

Reduced Payor Costs

- Patient, CMS, Insurance
- Reduced Patient Length of Stay
- Reduced Admissions to the ICU
- Reduced Surgical Costs
- **Lower Overall Healthcare Costs**

Increase Hospital Bottom Line

- Increase Surgical Procedural Profit in **Fixed Cost Payment Model**
- Preserves Hospital Revenues Though **Improved Quality Scores**
- Reduce Penalties For Patient Harm
- Reduce Caregiver Burnout/Turnover

Patient

- **Better Outcomes**
- **Increased Patient Satisfaction**









Pegwin Overview

What:

Digital Health IT Company

• How:

- Using AI To Establish Custom Patient
 Baselines Through Analysis Of Specific
 Patient Demographics And Records With A
 Cross Referenced Data Lake
- **Use:** Detect Early Deterioration Prior To A Complication In A Patient's Condition To Minimize The Treatment Costs Of The Patient

Result:

 Improve Bottom Line Through Better Patient Outcomes

Technology:

- Machine Learning and Medical AI
 - Retrospective Study to Validate AI Engine
 - Two ONC Awards
 - Large Cancer Hospital Study to Validate AI
 - Provisional Patent Filed

Why Pegwin

- The Premiere Cancer Research Hospital Validating Pegwin Technology.
- Active Customer Deal Flow
- Low Cash Requirement









Compelling Hospital Financial Proposition

S	ingl	le Texas Hos	spita	al Example				
Pricing / Pegwin and Hospital								
Pegwin Revenue Per Surgery (Hospital Cos				\$150				
Pegwin One-Time Installation Fee						\$250,000		
Hospital Revenue Per Surgery for Pegwin S	ervi	ce (paid by p	oayo	or)		\$250		
Complication Cost Assumptions and Calcula	tion	ıs						
Hospital Complication Rate ¹						18.05%		
Average Cost per Complication ¹					\$	13,298		
Texas Hospital Average Monthly Surgeries					1,000			
Average Number of Monthly Complication						181		
Average Total Cost of Complications					\$	2,400,668		
Complication Cost Reduction Assumptions /	Cal	culation						
Projected Pegwin Complication Reduction	Rat	e				20%		
Average Number of Monthly Prevented Co	Average Number of Monthly Prevented Complications					36		
Average Monthly Savings due to Reduced Complicati					\$	478,743		
¹ Costs and complication frequency based 6,38	87 pa	atients acro	ss 1	4 different c	omį	olication categ	gories.	
Month		1		2		3	•••	Year 1
Cash Outflow								
Pegwin Cost to Hospital		\$400,000		\$150,000		\$150,000		\$2,050,000
Cash Inflow								
Hospital Revenue (Charge for Pegwin)		\$250,000		\$250,000		\$250,000		\$3,000,000
Hospital Savings (Reduced Complications)	\$	480,134	\$	480,134	\$	480,134		\$5,761,604
	\$	730,134	\$	730,134	\$	730,134		
Bottom Line Impact to Hospital	Ś	330,134	\$	580,134	\$	580,134		\$6,711,604









Financial Projections

		2024		2025		2026		2027
Revenue Hospitals		1		8		32		56
Recurring Hospital Revenue	\$	272,500	\$	4,547,500	\$	21,390,000	\$	45,150,000
Ambulatory Surgery Centers	\$	-	\$	-	\$	<u>-</u>	Ś	-
Long Term Acute Care	\$	-	\$	eitios N	ot i	in Finance N	100	lel _
Remote Patient Monitoring	\$	Revenue C	Opp	ortunities N	\$	-	\$	-
Total Care Management	\$	-	\$	-	\$	-	\$	-
Total Revenue	\$	272,500	\$	4,547,500	\$	21,390,000	\$	45,150,000
Cost of Goods Sold (Support, Sales, Installation)		78,460	\$	1,119,460	\$	5,090,640	\$	10,222,800
Operating Expenses								
Personnel Expense	\$	785,417	\$	2,278,333	\$	3,036,667	\$	3,315,000
Non Payroll Operating Expenses	\$	596,244	\$	903,868	\$	1,454,598	\$	1,007,850
Total Operating Expenses	\$	1,381,661	\$	3,182,201	\$	4,491,264	\$	4,322,850
Net Cash Flow		(\$1,187,621)	\$	245,839	\$	11,808,096	\$	30,604,350

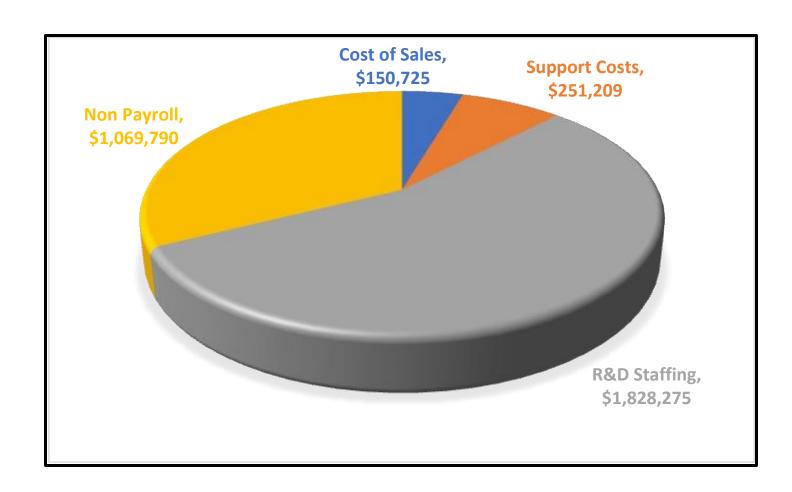








Use of Funds



Funding Request

- Convertible Note of Equity
- Funding Required
 - \$3.3.M



MANAGEMENT TEAM

ADVISORY BOARD CLINICAL | SCIENTIFIC



Chris Melson MBA CEO



Douglas B. Dotan MA, CQIA, Maj. (Ret.) Founder, President



Richard W. Walker, Jr. MD, MBA, IFMCP Chief Clinical Officer



Paul Barach MD, MPH, Maj. (Ret.) Chief Medical Officer



Nadav Lankin MCA Chief Data Scientist

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VP Business Development at Medical Legal Spider

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Deborah Mansfield, MBA, MS Innovation business development professional.

Ilan Mintz
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Christopher JerryFounder of the Emily Jerry Foundation









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