



# WAIT TIME MANAGEMENT

[https://www.youtube.com/watch?v=nA\\_5C\\_F6SUw&feature=youtu.be](https://www.youtube.com/watch?v=nA_5C_F6SUw&feature=youtu.be)

A mobile system whereby patients and families can see what is occurring in anticipation and during procedures.

# Market Trends

- US Healthcare System is becoming increasingly consumer-driven.
- Patient experiences are key drivers of hospital revenue.
- In 2017, \$1.7B in Medicare reimbursements will be withheld from hospitals with poor HCAHPS surveys.
- Subjective patient satisfaction scores matter!



Patient Satisfaction  
Matters



Image Source: [Christian Science Monitor](#)

# Problem: Wait Time Management

- Long wait times can lead to:
  - Declining patient satisfaction scores
  - Reduced likelihood of referrals
  - Increased patient walk-outs without receiving care.
  - Decrease in hospital revenue
- There's robust need for a wait time management tool to ease patient anxiety and lessen perceived wait time.

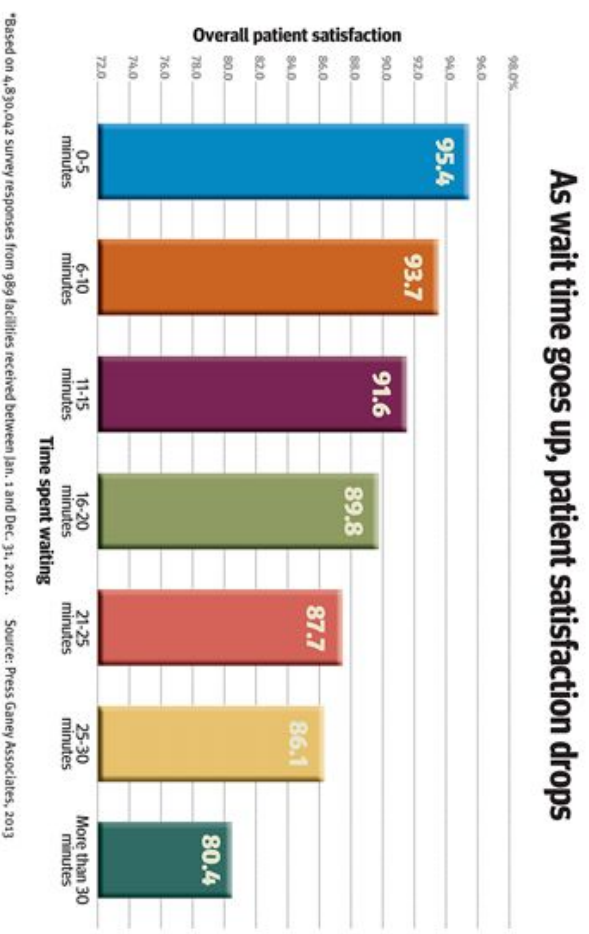


Image Source: [Hospitals & Health Networks Magazine](#)

# Business Case

- Improve patient experience
  - Reduce anxiety for patients and families
- Increase hospital revenue
  - Medicare reimbursements
  - Increased referrals
  - Returning patients
- Lessen burden on clinical and practice staff in providing regular updates or soothing anxious patients/families
  - Staff can focus on other patient care tasks.



Image Source: [Shutterstock](#)

# Business Proposal



- Current commercial products for wait time management can be cost-prohibitive and cumbersome (Ease Applications, LLC)
- We will develop an easy-to-use, FHIR enabled, wait-time tracking tool with anonymized patient data that provides real-time updates, so patients and families can see what is occurring in anticipation of procedures.
- This includes a global view that is color-coded so provider and staff can rapidly assess which patients have been waiting the longest (and may be in need of additional attention/reassurance)

# Challenges

- Buy-in from Clinic Staff
  - Disparate systems are cumbersome to navigate
- Health Insurance Portability and Accountability Act (HIPAA)
  - How do we assign an easy-to-remember alias to each patient?
- Personalized Care
  - Low literacy options
  - non-English language options

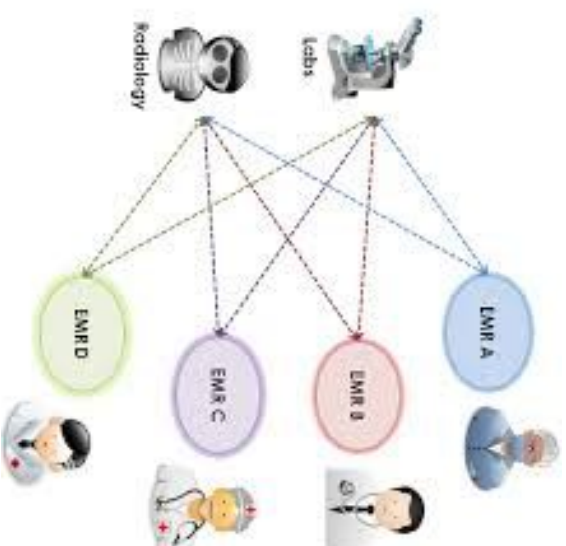
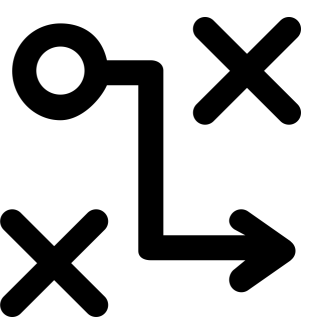


Image Source: [Visolve.com](https://www.visolve.com)



Created by [iconamind.com](https://www.iconamind.com)  
from Noun Project

# Further Research

- Current Patient Opinion
  - Sentiment analysis
  - Surveys
- Patient Engagement
  - How do we get patients to use this technology? How are they interfacing with it?
- Existing Patient Solutions
  - How do patients normally handle this situation? What methods do they use and what makes them feel the most comfortable?

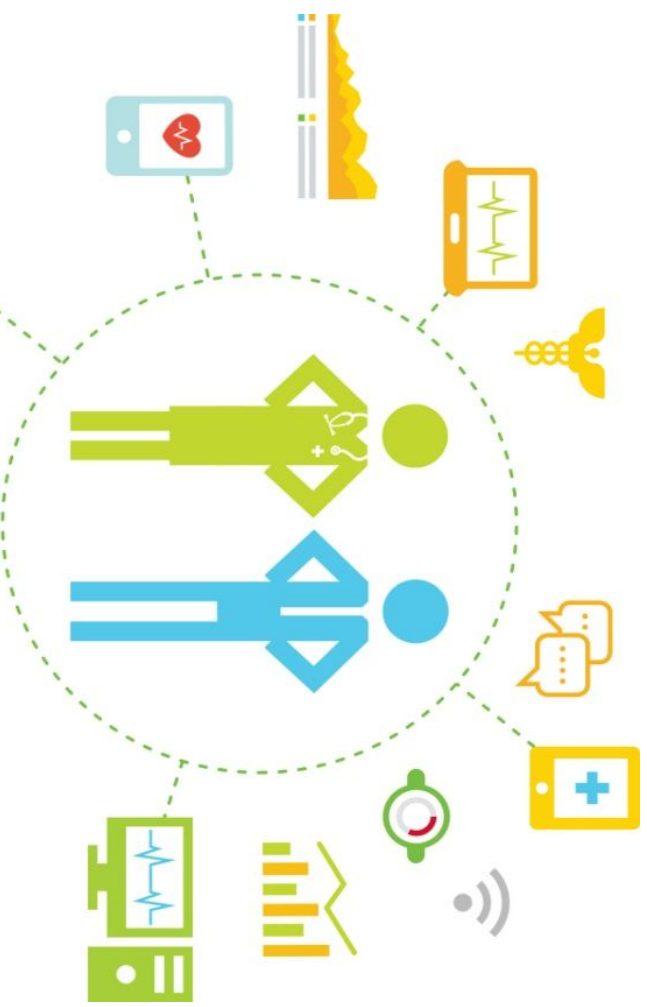


Image Source: [CDW](#)

## Chart

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# Phase I Details

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
1	Milestone #1: Establish Business Case					
1.1	Research Business Case	Heidi, Tracy	10/4/17	10/8/17	4	30%
1.2	Finalize Proposal	All	10/4/17	10/8/17	4	0%
1.3	Solicit Stakeholder Feedback	All	10/4/17	10/14/17	10	0%
1.4	High level requirements	All	10/11/17	10/15/17	4	0%
1.5	Status Report #1	All	10/9/17	10/15/17	6	0%
	Presentation Schedule					
1	Business Case & Proposal	Tracy	10/4/17	10/8/17	4	0%
2	Technical Specifications	Alain & Heidi	10/18/17	10/22/17	4	0%
3	Team Progress Report	Tracy	11/8/17	11/12/17	4	0%
4	Final Presentation	James & Rajan	11/29/17	12/3/17	4	0%

# Phase II Details

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
2	Milestone # 2: Technical Requirements					
2.1	Product Design	All	10/18/17	10/22/17	4	0%
2.2	Finalize Technical Specifications	All	10/22/17	10/25/17	3	0%
2.3	Sprint 1 (Dev)	Alain, James, Rajan, Heidi	10/23/17	11/5/17	12	0%
2.4	Status Report #2	All	10/25/17	10/29/17	4	0%
2.5	Status Report #3	All	11/1/17	11/5/17	4	0%
	Presentation Schedule					
1	Business Case & Proposal	Tracy	10/4/17	10/8/17	4	0%
2	Technical Specifications	Alain & Heidi	10/18/17	10/22/17	4	0%
3	Team Progress Report	Tracy	11/8/17	11/12/17	4	0%
4	Final Presentation	James & Rajan	11/29/17	12/3/17	4	0%

# Phase III Details

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
3	Milestone # 3: Progress Report					
3.1	Sprint 2 (Dev)	Alain, James, Rajan	11/6/17	11/19/17	13	0%
3.2	Status Report # 4	All	11/15/17	11/19/17	4	0%
3.3	Sprint 2 (QA)	Heidi, Tracy	11/15	11/19/17	4	0%
	Presentation Schedule					
1	Business Case & Proposal	Tracy	10/4/17	10/8/17	4	0%
2	Technical Specifications	Alain & Heidi	10/18/17	10/22/17	4	0%
3	Team Progress Report	Tracy	11/8/17	11/12/17	4	0%
4	Final Presentation	James & Rajan	11/29/17	12/3/17	4	0%

# Phase IV Details

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE
4	Milestone # 4: Finalize & Present Build					
4.1	Status Report # 5	All	11/22/17	11/26/17	4	0%
4.2	Sprint 3 (Dev)	Alain, James, Rajan	11/20/17	12/3/17	13	0%
4.3	Sprint 3 (QA)	Heidi, Tracy	11/27/17	12/3/17	6	0%
4.4	Final Sign-Off and Implementation	All	11/29/17	12/3/17	4	0%
4.5	Finalize Write-Up	All	11/29/17	12/3/17	4	0%
	Presentation Schedule					
1	Business Case & Proposal	Tracy	10/4/17	10/8/17	4	0%
2	Technical Specifications	Alain & Heidi	10/18/17	10/22/17	4	0%
3	Team Progress Report	Tracy	11/8/17	11/12/17	4	0%
4	Final Presentation	James & Rajan	11/29/17	12/3/17	4	0%