

# Insanity

“Doing the same thing over  
and over again, but  
expecting a different result”



**SAFESTART**  
*Start Surgery Safely*

Richard M Vazquez, MD, FACS, RVT,RPVI

**Re-engineering the surgical safety process for the benefit of all**



# SafeStart: a mobile device and cloud based tool for surgery efficiency, safety, & patient satisfaction



Surgeon created and designed for surgeons, staff, and patients and for the places where we care for our patients.



## The problem

*Patient Regina Turner, May, 2013 - St. Louis, MO*

Prepared for **left side brain surgery** wrong side ➡ **permanent brain damage.**



# The problem



**The Preoperative Checklist: mandated in all surgical procedures performed in the U.S.(50,000,000\* annually)**

**Never Events in the US occur 40-80 times per week reported >4,000\* times per year in US = \$133 K/event \$1.3 Billion**

\* Does not include 65 million image guided procedures



**Wrong Site**



**Wrong Procedure**




**Wrong Patient**



Single Point Of Truth Medical, LLC

211 East Ontario Street, #1195, Chicago, IL 60611 | safestartmedical.com

 <b>World Health Organization</b>			<b>SURGICAL SAFETY CHECKLIST (FIRST EDITION)</b>		
<b>Before induction of anaesthesia</b>		<b>Before skin incision</b>		<b>Before patient leaves operating room</b>	
<b>SIGN IN</b>		<b>TIME OUT</b>		<b>SIGN OUT</b>	
<input type="checkbox"/> <b>PATIENT HAS CONFIRMED</b> • IDENTITY • SITE • PROCEDURE • CONSENT		<input type="checkbox"/> <b>CONFIRM ALL TEAM MEMBERS HAVE INTRODUCED THEMSELVES BY NAME AND ROLE</b>		<input type="checkbox"/> <b>NURSE VERBALLY CONFIRMS WITH THE TEAM:</b>	
<input type="checkbox"/> <b>SITE MARKED/NOT APPLICABLE</b>		<input type="checkbox"/> <b>SURGEON, ANAESTHESIA PROFESSIONAL AND NURSE VERBALLY CONFIRM</b> • PATIENT • SITE • PROCEDURE		<input type="checkbox"/> <b>THE NAME OF THE PROCEDURE RECORDED</b>	
<input type="checkbox"/> <b>ANAESTHESIA SAFETY CHECK COMPLETED</b>		<b>ANTICIPATED CRITICAL EVENTS</b>		<input type="checkbox"/> <b>THAT INSTRUMENT, SPONGE AND NEEDLE COUNTS ARE CORRECT (OR NOT APPLICABLE)</b>	
<input type="checkbox"/> <b>PULSE OXIMETER ON PATIENT AND FUNCTIONING</b>		<input type="checkbox"/> <b>SURGEON REVIEWS: WHAT ARE THE CRITICAL OR UNEXPECTED STEPS, OPERATIVE DURATION, ANTICIPATED BLOOD LOSS?</b>		<input type="checkbox"/> <b>HOW THE SPECIMEN IS LABELLED (INCLUDING PATIENT NAME)</b>	
<b>DOES PATIENT HAVE A:</b>		<input type="checkbox"/> <b>ANAESTHESIA TEAM REVIEWS: ARE THERE ANY PATIENT-SPECIFIC CONCERNS?</b>		<input type="checkbox"/> <b>WHETHER THERE ARE ANY EQUIPMENT PROBLEMS TO BE ADDRESSED</b>	
<b>KNOWN ALLERGY?</b> <input type="checkbox"/> NO <input type="checkbox"/> YES		<input type="checkbox"/> <b>NURSING TEAM REVIEWS: HAS STERILITY (INCLUDING INDICATOR RESULTS) BEEN CONFIRMED? ARE THERE EQUIPMENT ISSUES OR ANY CONCERNS?</b>		<input type="checkbox"/> <b>SURGEON, ANAESTHESIA PROFESSIONAL AND NURSE REVIEW THE KEY CONCERNS FOR RECOVERY AND MANAGEMENT OF THIS PATIENT</b>	
<b>DIFFICULT AIRWAY/ASPIRATION RISK?</b> <input type="checkbox"/> NO <input type="checkbox"/> YES, AND EQUIPMENT/ASSISTANCE AVAILABLE		<b>HAS ANTIBIOTIC PROPHYLAXIS BEEN GIVEN WITHIN THE LAST 60 MINUTES?</b> <input type="checkbox"/> YES <input type="checkbox"/> NOT APPLICABLE			
<b>RISK OF &gt;500ML BLOOD LOSS (7ML/KG IN CHILDREN)?</b> <input type="checkbox"/> NO <input type="checkbox"/> YES, AND ADEQUATE INTRAVENOUS ACCESS AND FLUIDS PLANNED		<b>IS ESSENTIAL IMAGING DISPLAYED?</b> <input type="checkbox"/> YES <input type="checkbox"/> NOT APPLICABLE			

THIS CHECKLIST IS NOT INTENDED TO BE COMPREHENSIVE. ADDITIONS AND MODIFICATIONS TO FIT LOCAL PRACTICE ARE ENCOURAGED.

# The problem

## How Time Out checklist works now

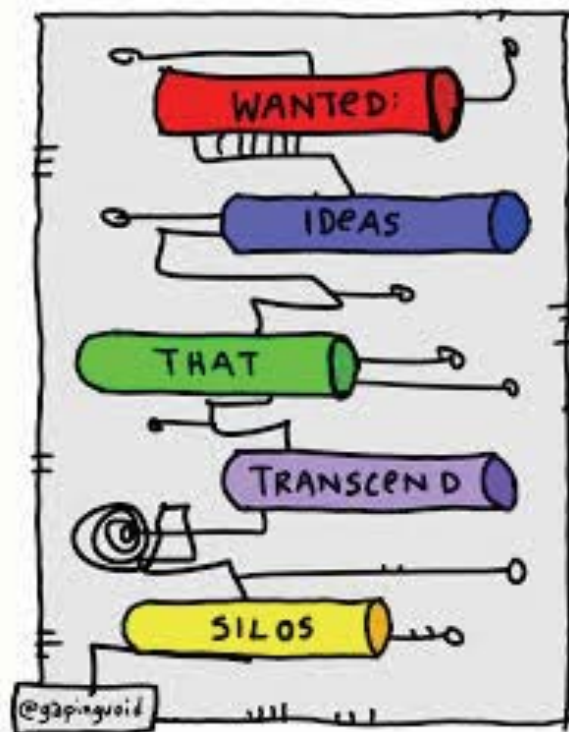
*typical poor documentation may look like this...*



*Time Out was performed*

- ✔ **Brief verbal meeting** of Operating Room team immediately before incision
- ✔ Verify patient's identity, procedure, operation site, allergies, etc

SafeStart:  
an idea that  
transcends silos





Mark Chassin, MD  
President and CEO  
The Joint Commission  
President of TJC Center  
For Transforming Healthcare



**SAFESTART**  
*Start Surgery Safely*

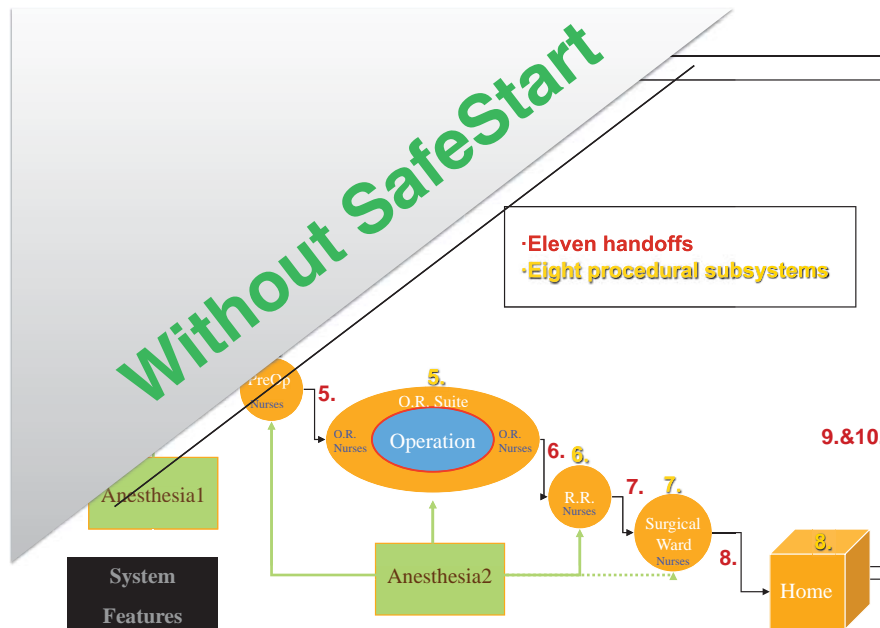
Safestart Demo

900 North Michigan Avenue Surgery Center  
Chicago, Illinois

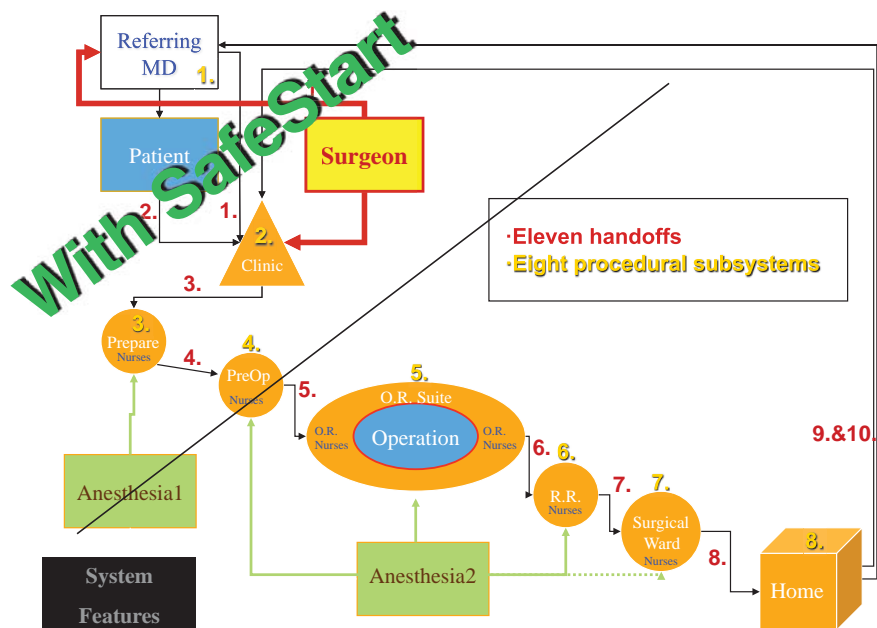
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# Prevent Handoff Errors



# Prevent Handoff Errors





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## Secure Patient Portal


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*Engage & involve surgical patients like never before*

- ✔ Device agnostic patients check record from home\*
- ✔ Improve patient experience and empower
- ✔ Gather invaluable patient feedback and metrics
- ✔ Involve Parents in the surgical safety process



# Secure Patient or Parent Portal




edit accountlogout

If you have any questions or concerns about the information or procedures shown on this site, please contact your doctor's office directly.

## PENDING PROCEDURES


### PATIENT INFORMATION



**FIRST NAME:** Robin  
**EMAIL:** drvmax+113@gmail.com  
**BIRTHDAY:** 03/19/1984

**LAST NAME:** Jones  
**SEX:** FEMALE

### PROCEDURE INFORMATION



**PROCEDURE:** Right scaphoid bone pin with supraclavicular block  
**ALLERGIES:** Ciprofloxacin  
**PHYSICIAN NAME:** Richard Vazquez  
**PROCEDURE DATE:** 09/19/2016 @ 11:00am  
**GFR:** N/A

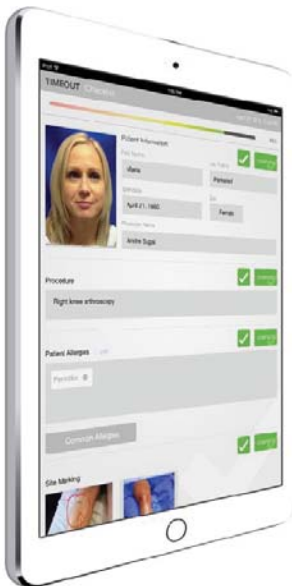
Glomerular filtration rate (GFR) is a test used to check how well the kidneys are working. Specifically, it estimates how much blood passes through the glomeruli each minute. Glomeruli are the tiny filters in the kidneys that filter waste from the blood.

## The Solution

A Mobile Solution designed to eradicate never events.

SafeStart provides:

- ✔ Process standardization and compliance
- ✔ Increased patient flow with **fewer delays and cancelled cases**
- ✔ Patient engagement and involvement with safety
- ✔ Improved patient satisfaction the surgical safety process
- ✔ Metrics: granular elements of the safety and efficiency process



Copyright PRODUCT APPEARANCE





**SAFESTART** TIMEOUT CHECKLIST Procedure Date: SEP 19, 2018 11:00 AM

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**PATIENT INFORMATION**

First Name: Robin      Last Name: Jones      Birthdate: March 16, 1984

Sex: Female      Physician Name: Richard Vazquez

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**Procedure**  
Right scapoid bone pin with supracleivular block

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**Patient Allergies**  
Ciprofloxacin

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**SITE MARKING**

**X-RAY PHOTOS**

**REQUIRED**

	N/A	YES	NO
PROPHYLACTIC Antibiotics		<input checked="" type="checkbox"/>	
VTE prophylaxis required/in place	<input checked="" type="checkbox"/>		
Implants / Instruments		<input checked="" type="checkbox"/>	
Diagnostic Images available		<input checked="" type="checkbox"/>	
Requested Blood Required	<input checked="" type="checkbox"/>		
GFR	N/A		

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**TIMEOUT COMPLETE BY**  
Richard Vazquez

**SIGNATURE**

Completed Checklist  
Print as PDF and scan to  
file or save to EMR

- iMed Consent
- EMMI Solutions
- CaseChek Surgical
- TapCloud
- SecureLinx Biometrics
- VTS/Steris SAFE +SafeStart
- SureScripts and Other API's

## Strategic Alliances



# Pilot Product Tested Proven Compliance Improved Workflow

"SafeStart is so easy to use, that even someone who isn't computer literate can figure it out. It makes the time out process flow more smoothly"  
-OR Nurse

"I have never experienced an easier transition to a new product or process as I did with [SafeStart]. It just makes sense to use it!"  
-RN Nurse Director

Where: 900 N. Surgery Center, Chicago, IL

- ✔ 300+ SafeStart time-outs completed
- ✔ Used by general, ophthalmology, and plastic surgeons
- ✔ Setup < 1 day, Training < 10 minutes
- ✔ Extremely high staff acceptance of the product

"SafeStart is a quick and easy way to perform a time out. It prompts the nurse to ask all of the questions that a time out needs to have addressed."  
-OR Nurse

"[It] is easy to understand and so simple!" -OR Nurse

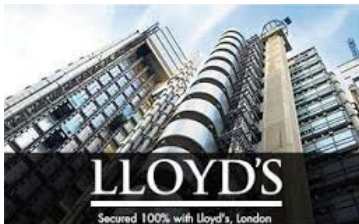
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## Who Wins

*A win, win, win, win situation!*

Chicago



YOUR BIGGEST  
ASSET IS  
YOUR  
REPUTATION



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# The Competition

## Do other new digital solutions exist?

### Off-Site Video Monitoring of Checklist Performance



True “Integration” with EMR for output  
Cross check function with EMR

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## Problem

*Even with checklists...*

**Never Events** occur nearly **40 times per week**

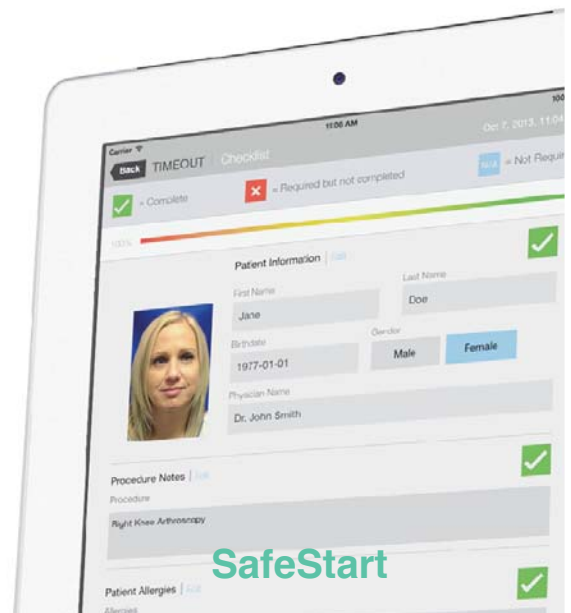
**4,000 times per year** in the US.



## Summary

## Solution

## Questions



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