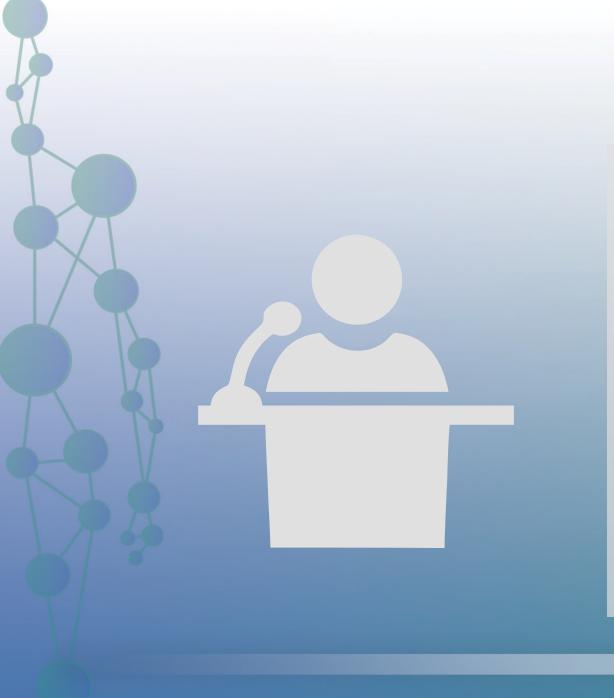
PATIENT SAFETY MOVEMENT First, Do No Harm. ZERO by 2030

Saving lives saves money & how innovation can help



If you focus on **costs**, **quality** goes down.

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– Toyota leadership

Low quality in healthcare has a significant impact on **patients and costs**

40%

30%

Adverse Drug Events (ADE)*

40% of patients experience ADE costing on average over \$3000 and increase the LoS by 3.1 days in U.S community hospitals.

Adverse Surgical Events**

30% of adverse events are related to a surgical or procedural event. Surgical defects in the U.S are estimated to cost \$12.9B per year.

Patient Care Events***

15%

15% of adverse events are carer sensitive events (incl fall & ulcers events). These increase LOS by 0.48-days and increase costs by \$700 per event.

Healthcare associated infections****

12%

12% of patient experience a Healthcare associated infections. The estimated cost to treat these events in the US ranges from \$ 28.4 billion to \$ 45 billion per year.

Early detection of patient deterioration Customer spotlight

Saratoga Hospital, Saratoga Springs NY

Saratoga Hospital recognized the importance of automating early warning scores (EWS) and the transfer of vital signs into the electronic medical record for a quicker response to patient deterioration.

Solution Implemented

Philips early deterioration detection solution: spot-check patient monitors with IntelliVue GuardianSoftware for deterioration management, along with professional services to facilitate full clinical adoption and change management.



Reduced length of stay and costs post-implementation

17%

reduction in TOTAL HOSPITAL length of stay reduction in average TOTAL HOSPITAL costs per case

\$2,897 1 day

reduction in

GENERAL CARE

length of stay

\$977

PHILIPS

reduction in average spend in GENERAL CARE Reference: https://pubmed.ncbi.nlm.nih.gov/34905953/;



ICU – high cost and many patient safety challenges

Alarm Fatigue	Delirium
Acute Kidney Injury	Post ICU syndrome
Ventilator-associated pneumonia	Poor health Increased
	outcomes cost of care

Reference: https://accessmedicine.mhmedical.com/content.aspx?bookid=3072§ionid=257402137

ICU - Patient Safety Deep Dive



Acute Kidney Injury (AKI)

Spectrum of clinical presentations from mild-severe kidney injury that may result in permanent and complete loss of renal function.

A common complication that affects as many as one in five hospitalized patients and more than 50% of patients admitted to the ICU.

Reactive model



Potential impact on patients, healthcare costs and society



AKI burden*

AKI affects as many as 1 in 5 hospitalized patients and up to **1 in 2** patients admitted to intensive care.

Patient outcomes**

In-hospital mortality for patients with AKI is estimated to be 20-25% and as high **as 50%** for ICU patients requiring dialysis**.



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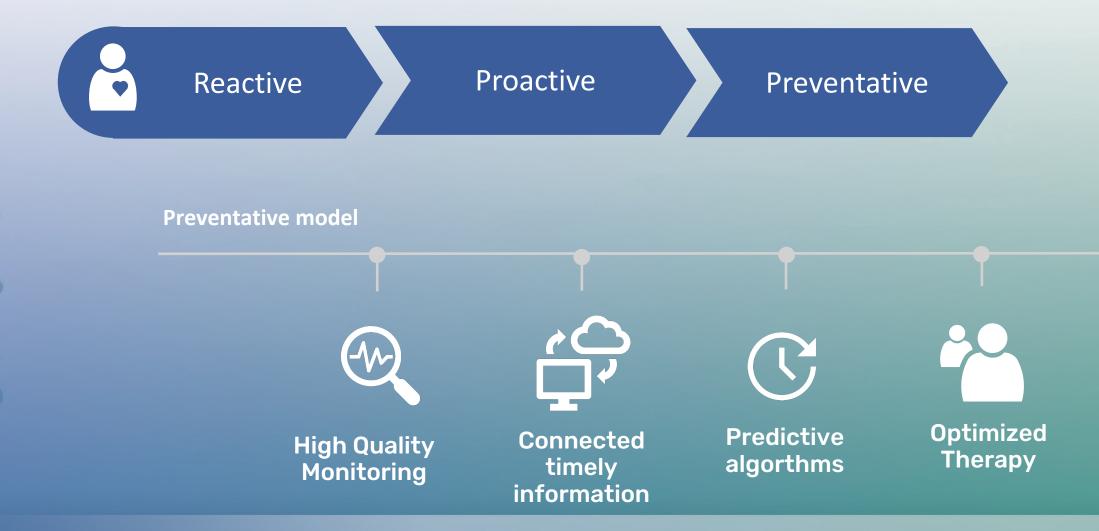
Long term health impact**

For those that survive, long term risks include CKD, ESRD and Cardiovascular events. 1 in 4 survivors of AKI requiring dialysis reported a health related QOL equal to or worse than death.

Hospital, system and societal costs***

At least **\$5 billion** in hospital costs are related to AKI in the US. The true costs are likely much higher especially when factoring flow on health and societal impacts.

How might innovation prevent Acute Kidney Injury?



Addressing complications is not only great for patients but can also reduce costs



Preventable complications*

Comparing Medicare patients with and without a subset of potentially preventable postoperative complications after major noncardiac surgery.

Provider costs:



*Reference: Data on file, Philips Healthcare

Solution will help save many lives and on top make healthcare more affordable



Peter Ziese *Chief Medical Officer, Philips*