

# <u>Strategy for UP</u>take of <u>PrO</u>cesses for <u>Recognizing and Responding</u> <u>To Acute Kidney Injury</u>

### The Problem:

Acute kidney injury (AKI) is common complication after surgery, as evidence suggests:

- 10% 30% incidence in Alberta
- More than 3-fold increase in dialysis for AKI after major surgery in the last 20 years
- Increased length of hospital stay and costs of care

Perioperative AKI is often reversible with early recognition and management.

# What is SUPPORT AKI?

- A clinical decision support initiative
- A process that will be implemented to:

# Recognize patients with AKI early through SCM flag alerts.

# Respond

with early interventions and continue monitoring appropriate parameters.

# Refer

to AHS
Clinical
Knowledge
Topic and
communicate
with care
team.

# Who is the target population?

## Hospitalized patients:

- 18 years or older
- Develop AKI on general/vascular surgery units
- Identified by an SCM alert

# **Excluded patients:**

- Hospitalized on non-surgical units
- Already receiving dialysis

# As a member of the care team, what is my role?



Recognize and respond to SCM flag alerts for early identification of patients who develop AKI.



Review guidance provided to help reverse AKI using fluid therapies and medication adjustment.



Ensure patients are monitored appropriately for complications and refer to specialists if required.



Provide feedback on the tools and processes for AKI.

## Who is involved?

Calgary Steering Committee: Dr. Elijah Dixon, Dr. Anthony MacLean, Dr. Indraneel Datta, Dr. Gregory Samis, Dr. Jennifer Landry, Dr. Rohan Lall, Sonia Ficaccio-Scarcelli, Sharon Falk

**Calgary Sites:** Foothills Medical Centre Unit 102 and Unit 44; Peter Lougheed Centre Unit 29/44 and Unit 58/59

# Study inquiries or feedback about the tools and processes?

Dr. Matthew James, Principal Investigator <a href="mailto:mjames@ucalgary.ca">mjames@ucalgary.ca</a>
Eleanor Benterud, Senior Project Coordinator <a href="mailto:eleanor.benterud@ucalgary.ca">eleanor.benterud@ucalgary.ca</a>
Meha Bhatt, Research Coordinator <a href="mailto:meha.bhatt@ucalgary.ca">meha.bhatt@ucalgary.ca</a>



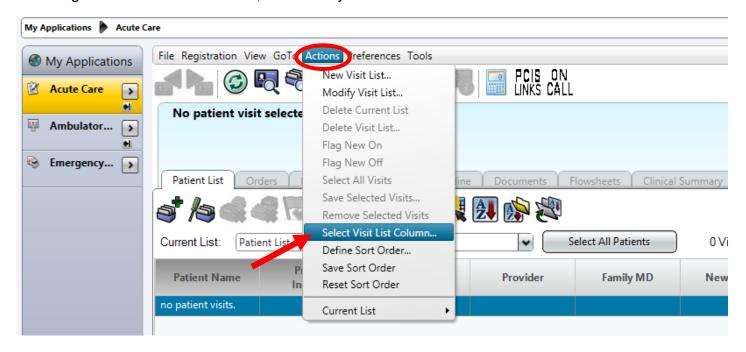




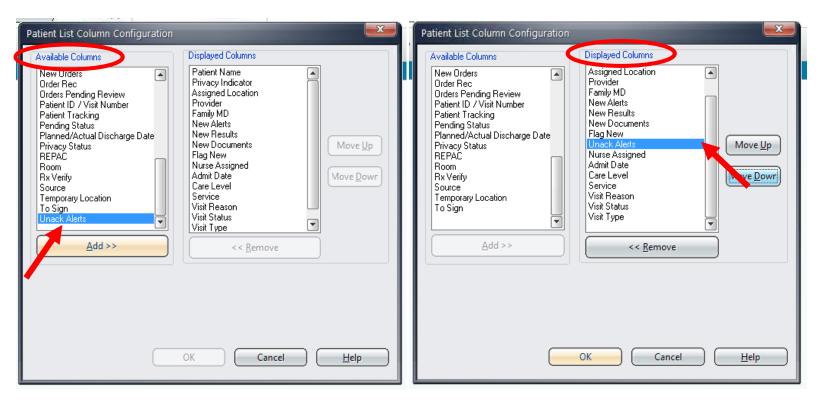
# **Surgeon Quick Reference Sheet**

# How to add Unack Alerts column on SCM:

1. Log into SCM. Click **Actions**, followed by **Select Visit List Column**.

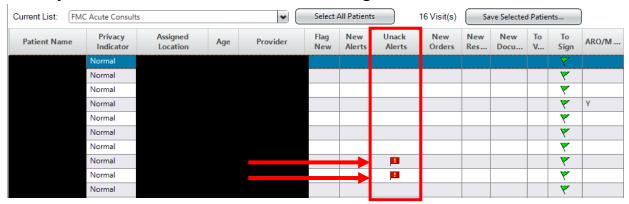


2. A pop-up window will appear. Scroll down in the **Available Columns** list to find **Unack Alerts**. Click **Add**, then **Unack Alerts** should appear on the **Displayed Columns** list. You have added the column.

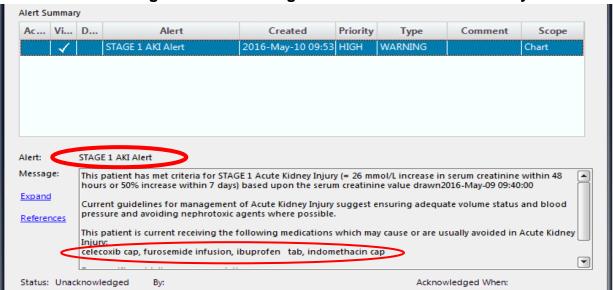


# **RECOGNIZE**

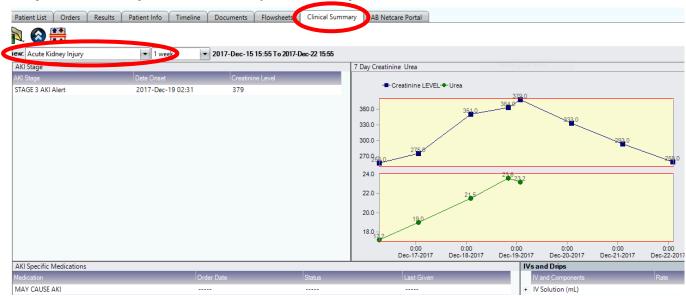
1. Identify Unack Alerts on Sunrise Clinical Manager



2. Double-click red flag to determine stage of AKI and medication safety concerns.



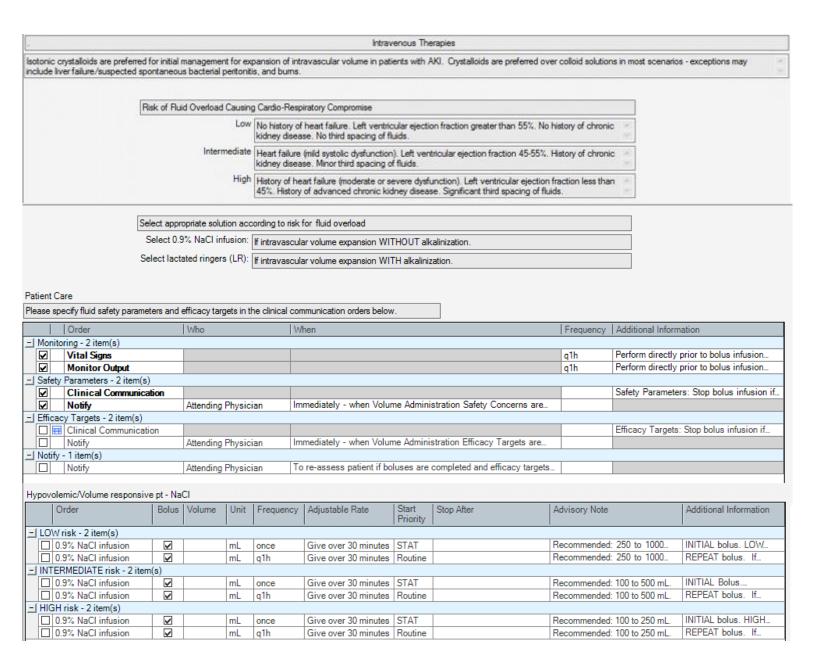
3. View AKI Clinical Summary for details on volume status, and active medications that may affect kidney function or require due adjustment in AKI.



# **RESPOND**

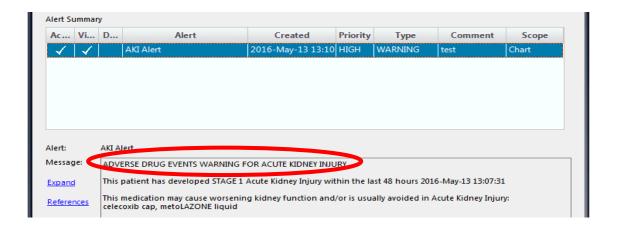
4. Consider using the AKI order set to administer fluid interventions accordingly for hypovolemic, euvolemic, or hypervolemic patients.

For hypovolemic/potentially volume responsive patients, specify and monitor safety parameters and efficacy targets based on risk of fluid overload.



- 5. Manage adverse medications for AKI patients and monitor any Adverse Drug Warning alerts that appear when a nephrotoxic medication is ordered for an AKI patient.
- ✓ Consider stopping flagged medications that affect kidney function and can worsen AKI
- ✓ Consider adjusting doses for **renally cleared drugs** for cases of persistent severe AKI (Stage 2 or Stage 3 AKI only)

Consult Lexicomp or phone clinical pharmacist if needed.



# REFER

6. The AKI order set provides guidance for consultation with specialists. Refer to <a href="AHS clinical Knowledge Topic on Acute Kidney Injury">ACUTE INJURY INJUR

