

NEWS FROM THE ACUTE KIDNEY INJURY (AKI) SUB-COMMITTEE

SUMMARY OF GROUP PROJECT OR ACTIVITIES – POSTED DECEMBER 2024

Name of Project or Activity	Description	Project Status
Creation of an education pamphlet on CS-AKI practice guidelines	This project is to create a simple visual and mental aid to help implementation of CS-AKI practice guidelines in clinical settings. This pamphlet will have “Do” and “Not Do” bullet recommendation items based on our practice guidelines. The pamphlet will be distributed at the 2025 SCA annual meeting.	Ongoing
Creation of an education questionnaire for trainees based on the SCA CSA-AKI practice guideline	This education questionnaire will have 6 sections in total, and each section will have 2-3 questions with answer stems (multiple choice or true/false). We plan to disseminate this questionnaire through fellowship and residency PD group.	Ongoing
Practice guideline podcast	This podcast is based on the practice guidelines and have essentially similar structure as the education questionnaire, plus introductory and summary section. Each section is about 5 minute and the podcast is 30-340 minutes in total. We plan to disseminate this through SCA university.	Ongoing
Guideline implementation survey	The goal of the survey is to further understand the barriers for SCA guideline implementation, therefore develop strategies to tackle these common barriers.	Ongoing
Venous congestion CS-AKI review paper	This review paper will focus an important rising etiology of CA-AKI venous congestion. The review will have sections on epidemiology, pathophysiology, nonengagement strategies, ongoing trials and future directions.	Ongoing

SUMMARY OF GROUP MEETINGS

Date	Action Items from Meeting
April 28, 2024	This first subcommittee meeting allowed us to get to know each other. We identified a few potential activities and tasks for the subcommittee. Meeting logistics, platform are identified, discussed and confirmed.
June 4, 2024	This second meeting determined the priority action items for the committee. The projects discussed are listed above and potential leaders for each task force are partially identified/suggested.
Sep 3, 2024	This meeting further discussed the details of these task force, next-step action items, a sign on sheets for these action items are distributed. Timelines for these tasks are discussed and confirmed.

Summary of Group Project or Activities – Posted June 2024

Name of Project or Activity	Description	Project Status (New, Ongoing, Complete, Near Completion, Long Term, Abandoned)
Activity 1	A review of AKI in thoracic surgery	ongoing
Activity 2	PUF research grant application	Abandoned

Summary of Group Meetings – Posted June 2024

Date	Action Items from Meeting
August, 2023	Discuss the progress of AKI in thoracic surgery
June9, 2023	Discuss the progress of AKI in thoracic surgery

POSTED NOVEMBER 2023

DESCRIPTION & GOALS

- A review of AKI in thoracic surgery.
- We have received search result from my hospital library. Drs. Christos Koutentis, Richa Dhawan, and Reney Henderson have worked on the screen, and it is in progress.
- Dr. Lee Goeddel was leading PUF research grant application. However, after further investigation, it did not appear to solve the questions we were looking into.

POSTED JUNE 2023

Summary of Group Meeting 1 - Date: 05/15/2022

- A review of AKI in thoracic surgery
- A review on new biomarkers in AKI
- Educational podcasts/mini lectures to SCA members on AKI using our recently published paper.
 - o Intraoperative target blood pressure and CS-AKI
 - o Intraoperative choice of specific vasopressors and CS-AKI
 - o Intraoperative erythrocyte transfusion threshold and CS-AKI
 - o Intraoperative dexmedetomidine (alpha-2 agonists) and CS-AKI
 - o Goal-directed oxygen delivery on CPB and CS-AKI
 - o The KDIGO bundle of care and CS-AKI

POSTED NOVEMBER 2022

Summary of Group Meeting 1: 05/15/2022

- A review of AKI in thoracic surgery
- A review on new biomarkers in AKI
- Educational podcasts/mini lectures to SCA members on AKI using our recently published paper. Since we have 6 areas we discussed in the paper, each one of them can serve as one topic. If you are interested, please let me know. If I do not receive volunteer, I will assign the topic to you.
 - Intraoperative target blood pressure and CS-AKI
 - Intraoperative choice of specific vasopressors and CS-AKI
 - Intraoperative erythrocyte transfusion threshold and CS-AKI
 - Intraoperative dexmedetomidine (alpha-2 agonists) and CS-AKI
 - Goal-directed oxygen delivery on CPB and CS-AKI

- The KDIGO bundle of care and CS-AKI

FUTURE PROJECTS - The future proposed projects are:

1. AKI in thoracic surgery: we are working on the keywords and search criteria and will ask the University of California Davis Health librarian to perform literature search
2. Biomarker for CS-AKI. Will perform literature search.

POSTED JUNE 2022

We did not have a formal group meeting after last report. However, we have had several email communications that discussed our submission and revision of 'Society of Cardiovascular Anesthesiologists Clinical Practice Improvement Update on Management of Cardiac Surgery Associated Acute Kidney Injury' to A&A. The above-mentioned project has been accepted for publication in A&A.

The future proposed projects are:

1. AKI in thoracic surgery
2. Biomarker for CS-AKI

POSTED OCTOBER 2021

Summary of Group Meeting 1: June 4, 2021

- 1. We have discussed the draft of "Society of Cardiovascular Anesthesiologists Clinical Practice Improvement Update on Management of Cardiac Surgery Associated Acute Kidney Injury"
- 2. Discussed agenda for the next meeting on 7/13/2021
- 3. Sending the draft to all the members and ask for initial feedback

Summary of Group Meeting 2: July 13, 2021

- Further discussed the content of the "the draft of "Society of Cardiovascular Anesthesiologists Clinical Practice Improvement Update on Management of Cardiac Surgery Associated Acute Kidney Injury".
- Assigned 2 members to review the 1 of the 6 strategies that reduce CS-AKI and receive the feedback 2 weeks after.
- Action 2: Currently, we are putting members feedback together and
- Action 3: Performing system search for newly published RCTs to update the references.
- Action 4: Revising the manuscript and present to the working group.

COLLABORATION

We hope to collaborate with "website committee" to put the "clinical update" to the website

FUTURE PROJECTS

Provide updates on new biomarkers and new technologies in managing CS-AKI on a yearly basis in the form of manuscripts.

POSTED JUNE 2021

The AKI Working Group is in the process of drafting a guideline for CS-AKI prevention and treatment.

The AKI Working Group discussed the draft of “Society of Cardiovascular Anesthesiologists Clinical Practice Improvement Practice Update on Management of Cardiac Surgery Associated Acute Kidney Injury.” Revisions will be worked on with the goal of submitting it to the A & A Journal for consideration.

The AKI Working Group would like to incorporate clinical practice updates to the SCA website. And would like to provide updates on new biomarkers and technologies with managing CS-AKI on a yearly, manuscript-form basis.