Role of Saudi Critical Care Society in Saudi Arabia in Narrowing the Gap
10 Years experience

Dr. Yasser Mandourah
Director PSMMC-ICS
President SCCS
ICU Saudi Arabia

2007
ICU Clubs
ICU in Saudi Arabia

• Hospital beds 30,000 MOH plus 10,000 non-MOH
• 2000 BEDS 2007
• 3000 BEDS 2012
• International standards 100 bed / 1000,000 population (SA Pop: 26,000,000)
ICU in Saudi Arabia

- 60→250 Critical care consultants registered in SCFHS
- International standards 6 consultant/ bed
- We have 10-15% of ICU consultants  WE NEED 1000 CONSULTANT BY 2016
- 10% Saudi ICU non qualified nurses
- Not detectable RT in MOH ( ONLY TERTIARYHOSPITALS)
- Low Saudi RT Proportion
Critical care Limitations in Saudi Arabia
• Limited number of beds.
• One third unstaffed yet
• One third of bed occupied with chronic patients
• Tertiary centers perform well with very limited beds and high referral rate (10% acceptance rate)
• Urban areas under-qualified staff.
  – Consultants 10%
  – Low percentage of Saudi qualified nurses
  – RT nearly not existing in non specialized hospitals
SCCS

• Founded 2006
• 1\textsuperscript{st} Conjoint Conference STS-SCCS 2007
• Dahran 1\textsuperscript{st} International Society Respiratory Care 2008
• 1\textsuperscript{st} International Stand Alone conference SCCS-2010-Jeddah 2010
SCCS 2007-2010

1st 5 year plan
Vision

To promote highest level of critical care to patients throughout the kingdom
Mission

- Improve the standard of care and Promote the best available knowledge to critical care staffing in every critical care unit in the kingdom
- Spread the ideal model of critical care throughout the kingdom
- Monitor the development of critical care in the kingdom
Road Map

• 2007 – Infrastructure, website started, honorary name, SR500, 000 funding in preparation for next year
• 2008 – Start our website and database
• 2009 – Our first conference to be held here in Saudi Arabia with 500 people attending
• Within first 5 years – have our own building
Services

• Membership
• Registration
• Fellowship
• Education
• Guidelines
• Literature and Medline search
• Research
• Database
• Website
Target beneficiary

All critical care staff
- Physician
- Nurses
- RT
- Pharmacy
- PT& OT
- Social workers
SCCS 2nd 5 Year Strategic plan 2008-2012
SCCS Strategic 5 Yeap Plan
The rule of 5
The SCCS will implement a 5-year plan to promote critical care in Saudi Arabia between 2008-2012. This will be implemented through 5 major projects in 5 major cities in the country. The 5 projects will cover all the 5 major members of critical care team.
Project name
SCCS quality improvement in Saudi Arabia critical care medicine

Time Line
5 Years between 2008-2012
Target

5 major members of critical care team targeted are
1. Critical care Medical Staff.
2. Critical care Fellow
3. Critical care Nurse
4. Critical care Respiratory therapist
5. Critical care Supporting Staff;
   • Nutrition
   • Pharmacist
   • Social worker
   • Physio-therapist
Phases

The 5 Major Cities in the country

1. Riyadh
2. Jeddah
3. Dammam
4. Tabuk
5. Abha
SCCS-2010-Jeddah
The Saudi Critical Care Society

Under the patronage of His Royal Highness Prince Sultan bin Abdul Aziz Al Saud, Crown Prince, Deputy Prime Minister & Minister of the Defense and the Aviation

SCCS 2010 Jeddah, Saudi Arabia
Conference April 27 - 29, 2010
Pre-Conference Course April 25 & 26

The Saudi Critical Care Society International Conference & 5th International Pan-Arab Critical Care Medicine Congress
SCCS-2010-Jeddah

- 1700 attendee
- 500 HRH prince sultan grant
- 180 speakers
- 25 international speakers
- 300 scientific sessions 30 CME
- 180 novel work presented
- 11 preconference courses 10 CME
- 100 news headlines
- Increased registrations to 2500
Under the patronage of His Royal Highness Prince Sultan bin Abdul Aziz Al Saud, Crown Prince, Deputy Prime Minister & Minister of the Defense and Aviation

SCCS 2011 RIYADH

2nd Annual International Critical Care Conference & 1st Critical Care Nursing Conference

Preconference Courses - April 23rd & 24th, 2011
Conference - April 25th - 27th, 2011

SCCS 2011 Riyadh - Preconference Courses
* Ultrasound for the Intensive Care Patients
* Mechanical Ventilation
* Critical Care Rapid Response Team
* Fundamental of Critical Care Support
* Adult Intensive Care Review Course
* Pediatrics: Fundamental of Critical Care Support
* Obstetric Critical Care Course and Workshop
* Neuro Critical Care Course and Workshop
* Renal Replacement Course
* Pediatrics: Mechanical Ventilation
* Critical Care Nursing Course

Course Venue: Medical Simulation Institute, King Fahad Medical City

For information or to register
Visit the SCCS Website at: http://scsmsa.org
facebook: Saudi Critical Care Society

Conference Venue
Riyadh Marriott Hotel
Al Malathir Street
Riyadh, 11464 Saudi Arabia
990-1-4779300
Join us for largest Critical Care Conference in the Middle East

SCCS 2012 DAMMAM – APRIL 2012

Pre-conference Courses April 21st & 22nd
Conference April 23rd to 25th
Saudicritical Care Society

Annual International Congress

SCCS-ESICM-2013-RIYADH

29 April - 1 May 2013 • Prince Sultan Hall, Al Faisaliah Hotel, Riyadh

Congress Themes:
- Annual Critical Care Evidence Reviews
- Mechanical Ventilation
- Neuro-Critical Care
- Infectious Diseases
- Acute Respiratory Failure
- Hemodynamics
- Quality Improvement in ICU

CME Accredited 30

20 Adult & Pediatric Multidisciplinary Courses:
- Critical Care Board Review
- Advanced Airway Management
- Mechanical Ventilation
- Obstetrics & Neurological Critical Care Courses
- Nutrition in Critical Care
- Critical Care Ultrasound

Pre-Conference Courses
27-28 April 2013

CME Accredited 15

Deadline for Submission of Abstracts
20 April 2013

for more information:
registrations@saudicriticalcare.org
www.sccs-sa.org
The 5th International Conference
SCCS-SCCM 2014 Riyadh
April 15, 16, 17 2014
Al Faisaliah Hotel Prince Sultan Hall

Conference Tracks
- Adult ICU
- Neuro ICU
- Pediatrics ICU
- Nursing
- Respiratory Therapy
- Nutrition

Conference Themes
- Patient First
- Evidence based ICU
- Threatening infections in ICU

For registration
Please visit the website
WWW.SCCS-SA.ORG
For more information Contact
Ms. Rosalina Bayot
e-mail
rosalina.bayot@saudicriticalcare.org
Phone # 0560647562
SCCS MEGA Conference

Join us for the largest conference of 2015!
SCCS-MEGA-2015

- 5 local Societies → 10 Local Societies
- 3 International Societies → 53 International Societies.
- 200 speakers
- 20 pre conference courses
- 2500 attendee.
SCCS-SCCM Relationship
SCCS-HQ

2013
SCCS-SITC

2014
SCCS-SITC

• Collaboration
  – SITC
  – SCCS
  – MMM-MA
• IEC Courses
• MOH MERS COV
SCCS Staff
SCCS Web Site
**Thank you for participating in the SCCS MEGA 2015**

It is of great honor to thank each one of you who have attended this conference and thanks to our special guests and guest speakers. I appreciate you for taking the time and effort to be a part of the Speakers and well-known 14 different societies which provided great intellectual and social impact for the participants. The Conference was an overwhelming success, with a 2500 total number of participants.

I certainly hope that the conference has been all that everyone of us expected it to be. I humbly welcome SCCS-MEGA conference with my sincerest gratitude to the Conference committee, how much I appreciate all co-organizers, supporting agencies, sponsors, and conference staffs who contributed the grants and efforts to us during the conference preparation. Without your support, the conference would not have been the success that it was. I trust that you found your involvement in the Conference both valuable and rewarding.

Once again, I would like to convey my deepest appreciation for your contribution and wish you good and happiness in the years ahead.

**Until we all see you again on the 7th Trans-MiddleEast SCCS conference which will be in Riyadh, hopefully on April 21-23, 2016**
SCCS Courses
CRITICAL CARE COURSES

Lists of Available Courses

AMV - Adult Mechanical Ventilation
CCN - Critical Care Nursing
PNA&MV - Pediatric/Neonatal Airway & Mechanical Ventilation
FCCN - Fundamentals of Critical Care Nursing
CCNL - Critical Care Nursing Leadership
CRRT - Continuous Renal Replacement Therapy
DAM - Difficult Airway Management
N&NCC - Neurological & Neurosurgical Critical Care
OCCCW - Obstetrics Critical Care Course & Workshop
NRP - Neonatal Resuscitation Program
ACCN - Advance Critical Care Nursing
P-SOVA - Pediatric Sonography for Vascular Access
ARCCA - Adult Respiratory Care Clinical Application
FCCS - Fundamentals of Critical Care Support
P-FCCS - Pediatric Fundamentals of Critical Care Support
RRT - Rapid Response Team
ICNM - Intensive Care Nursing Module

Register Now

web: www.sccs-sa.org
Registration Email: courseregistration@saudicriticalcare.org
For more details contact: number 0560547552
Available Courses for the Month of November & December 2013

Saudi Critical Care Society Training Center
Kingdom Saudi Arabia – Riyadh

Main page: www.sccs-sa.org

For more details contact us on: +966-560647562

FCCS
(Nov. 10-11, 2013)
(Dec. 25-26, 2013)

PFCCS
(Nov. 27-28, 2013)

AMV
(Dec. 4-5, 2013)

750 SR

Register Now
SCCS Courses

• 5 Mandatory courses
• 50K 2005-2008
• 50K per year 2009-2012
• 20-30K per year 2012-2015
Outreach Courses

2009-2012
Outreach Courses

• 50K HCW/ year
• MOH
• 10 Peripheral Cities
• Massive operation
SCCS Signature courses
Rapid Response System
Introduction RRT

Yasser Mandourah, MD, FRCP(C), FCCP, ABIM

Director, Department of intensive care services (RMH)
Director, center of intensive care science and research (RMH)
Vice President Saudi Critical Care Society (SCCS)

Riyadh Armed Forces Hospital
Riyadh
Saudi Arabia
yasser.mandourah@rmh.med.sa
1st SCCS Rapid Response Pre-conference Course in 1SRCC
17 & 18 Feb 2008
MPCCRC
Signature SCCS Projects
3ed Generation Critical Care
Arrhythmias: Extrinsic Causes

- Beta blockers, calcium channel blockers
- Lidocaine, sotalol
- P-Sympathomimetic agents
- Hypovolemic
- Cardiogenic syncope (vagal response)
- Electrolyte: ↓K⁺, ↑Mg⁺, ↑Ca²⁺, hypoxia, hyperthermia, hypothyroidism
- Infection (viral, Lyme disease)
SCCS-MOH P&P

2009&2012
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Saudi Critical Care Residency Program
SCCRP
SCCRP

• Idea 2010
• Green light 2013
• Live October 2015
• Target
  – Saudization
  – 1K in 5 years
SCCS-MOH Partnership
Role in National Health
H1N1

2009
2009 Flu Pandemic

• As of Today:
  – Total Number of Cases 511336
  – Deaths 6696
Saudi Arabia

- Cases 4119
- Death 36

- Australia: 40800 cases
Based on the Australian Module
We are Expecting
HAJJ 2009

• 100 CC cases in HAJJ up to → 300 CC cases with back up ICU beds
• 10- 30% increase in admissions
• 20% bed occupancy
• This number may increase 10 fold
Preparations

- Double Back up beds
- Double- Triple certified Staff
- 10 interventional cardiologist
- 100 beds KAMC
- HFO
MERS COV

2014
# CPG

## CLINICAL PRACTICE GUIDELINES

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## 1.0 PURPOSE

To set guidelines for proper management of MERS COVARDS patients with mechanical ventilation and minimization of complications and improve survival.

## 2.0 DEFINITION

#### Suspect Case (patients who should be tested for MERS-CoV)

1. A person with fever and community-acquired pneumonia or acute respiratory distress syndrome based on clinical or radiological evidence.  

   OR#

2. A hospitalized patient with healthcare associated pneumonia based on clinical and radiological evidence.  

   OR#

3. A person with 1) acute febrile ($\geq 38^\circ$C) illness, 2) body aches, headache, diarrhea, or nausea/vomiting, with or without respiratory symptoms, and 3) unexplained leucopenia ($WBC < 3.5 \times 10^9/L$) and thrombocytopenia ($platelets < 150 \times 10^9/L$).  

   OR#

4. A person (including health care workers) who had protected or unprotected exposure to a confirmed
3rd MERS CoV differentiates and may not be comparable from 1st and 2nd Education week and continued with only four courses as follows:

1. Fundamental of Critical Care Nursing (FCCN)
2. Fundamental of Tracheostomy Care (FTC)
3. Basic Life Support (BLS)
4. Critical Care Infection Control (CCIC)

A total of 103 participants attended this week’s program majority coming from Makkah region.

Figure 1 shows the number of participants per course delivered.

**Figure 1.**

![3rd Week MERS CoV Education Program Actual Attendees](image)

FTC Course ran with 6 participants, FCCN with 33 participants, BLS with 23 participants and CCIC with 41 participants.
MERS- CoV 4th Education Week
5th of July to 13th of July 2014

MERS CoV Education Program continued with the blessings of the Holy Month of Ramadan. Education enthusiasts never failed to attend the courses despite of the changes in schedule and meal timings. MERS CoV 4th Education week ended with six (6) courses with a total of 127 participants. Courses namely as follows:

1. Fundamental of Tracheostomy care (FTC)
2. Fundamental of Critical Care Support (FCCS)
3. Extra Corporeal Membrane Oxygenation Course (ECMO)
4. Intensive Bedside Critical Care Ultrasound (IBCCU)
5. Continuous Renal Replacement Therapy Course (CRRT)
6. Fundamental of Critical Care Nursing (FCCN)

Figure 1 shows the number of participants per course delivered.

**Figure 1.**

![4th MERS CoV Week Actual Number of Attendees](image)

Figure 1 shows that in six courses that were offered, ECMO had the greatest number landing with 27 participants. FTC followed with 26 participants then with FCCN with 24 participants CRRT with 17 and FCCS and IBCCU both with 16 participants.
ECMO%

C.C.#INFECTION#CONTROL#
# Middle East Respiratory Syndrome - Corona Virus

6 weeks MERS-CoV calendar

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**Venue:** SCCS - SITC, JEDDAH, KSA
7th International Conference
SCCS - MCCA
Trans Middle East

Pre-conference Courses (April 17th & 18th)
Riyadh - SCCS HQ, Riyadh • SCCS-SITC, Jeddah • SCCS Dammam

Conference Dates & Sites
Riyadh, KSA - April 19th to 21st, 2016 • Amman, Jordan - April 22nd & 23rd, 2016
SCCS-Trans-middle east-2016

• Across SA 2 days pre conference courses
• Riyadh 2 days conference
• Amman 2 days conference
• Amman 2 days post Conference courses
SCCS Online Courses
SCCS Online Courses

• 20 SCCS courses
• SCFHS CMEs
• Didactic online
• Skills in SCCS Training centers across the country.
• 100K/ Year
Partners
SCCS 2015

• 5000 active members
• 20,000 HCW in database
• 15 committees
• 5 chapters
• 3 branches
• 6 successful conferences and medical equipment expo.
• Average attendance 2500 attendee