Overview on the work of the GSA

K. Reinhart  ML
Chair Global Sepsis Alliance
Sepsis patients did not have a lobby

For any illness to rise to political prominence, it needed marketing..... A disease needed to be transformed politically before it could be transformed scientifically.
Strategy of the GSA to Foster a Sepsis Lobby

• Bring together all existing national and international professional societies and patient advocate groups
• Support and learn from each other to develop effective strategies to get sepsis on the agenda
• To generate and collect data on the human, medical and economic burden and of sepsis
• To document the poor awareness/knowledge of lay people and stakeholders
GSA Founding Organizations in 2010

- World Federation of Societies of Intensive and Critical Care Medicine
- World Federation of Pediatric Intensive and Critical Care Societies
- International Sepsis Forum
- Sepsis Alliance USA
- World Federation of Critical Care Nurses

More than 80 member organizations on all continents in 2018!
Recognizing Sepsis as a Global Health Priority —
A WHO Resolution

Konrad Reinhart, M.D., Ron Daniels, M.D., Niranjan Kissoon, M.D., Flavia R. Machado, M.D.,
Raymond D. Schachter, L.L.B., and Simon Finfer, M.D.

“...The public and political space is the space in which [sepsis] needs to be in order for things to change.”

Sir Liam Donaldson, Geneva; May 2017
Success Factors: Mobilization of UN Member States

Vienna Sept. 4th 2015
Improving the prevention, diagnosis and management of sepsis

The Executive Board,

Having considered the report on improving the prevention, diagnosis and clinical management of sepsis,

RECOMMENDS to the Seventieth World Health Assembly the adoption of the following resolution:
Success Factors: Support and Encouragement by high ranked policy makers and health authorities
Success Factors: Engagement of Patients and their Families

HILLARY HEARS ABOUT SEPSIS
from the Rory Staunton Foundation

Sepsis and the little ones who never should have died: Heartbreaking stories that prove why it’s so vital families and doctors are taught how to spot symptoms sooner

- The Daily Mail is campaigning to end the sepsis scandal
- 1,500 children have died from sepsis in the last 14 months
- Jeremy Hunt promised to consider a national awareness campaign
- Sepsis is an over-reaction of the body’s immune system to infection
- If caught early enough, it’s treated with intravenous antibiotics and fluids

By JONATHAN GORNALL FOR THE DAILY MAIL
PUBLISHED: 00:05, 15 March 2016 | UPDATED: 10:29, 15 March 2016
Success Factors: Delineating the Knowledge Gaps on the Burden of Sepsis

Global estimates of hospital treated sepsis cases/year 30.7 million at least six million deaths

About 80% of the global mortality caused by infections occur in LIMCS amd MICS

Fleischmann et al AJRCCM, 2016
Improving the representation of Sepsis in the GBDR
Success Factors: Improving the Knowledge on the Burden of Sepsis

- **Severe Sepsis** 687/100 000
- **Mortality** 19.8%
- **Only 15% coded in ICD**

**Extrapolation for Europe**
- **Annual Sepsis Cases** 3,427,521
- **Annual Deaths:** 678,649
Between 2009-2014 In The US Less Than 50% of Sepsis Cases were Coded In the ICD-9

- According to EHRs 5.9% of all admissions had sepsis. Neither the number of sepsis cases nor the mortality rate changed over time.

- Only 1.3% of sepsis cases were had ICD-9 sepsis codes in 2009 compared to 2.5% and mortality decreased.

Projected national incidence USA 1.67 million cases, 260,000 deaths.

Rhee at al JAMA 2017 (Funding CDC)
America Has a $27 Billion Sepsis Crisis

New data suggest a striking rise in the deadly syndrome, but hospitals have a profit-motive to find it—and it may have been there all along.
Assessing the Poor Awareness and Knowledge on Sepsis

Sepsis Awareness

Have you ever heard the term “Sepsis”?

<table>
<thead>
<tr>
<th>Country</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>49%</td>
</tr>
<tr>
<td>USA</td>
<td>44%</td>
</tr>
<tr>
<td>UK</td>
<td>40%</td>
</tr>
<tr>
<td>Canada</td>
<td>29%</td>
</tr>
<tr>
<td>Sweden</td>
<td>21%</td>
</tr>
<tr>
<td>Brazil</td>
<td>7%</td>
</tr>
</tbody>
</table>

NO: 50% 46% 60% 71% 79% 93%
YES: 49% 44% 40% 29% 21% 7%
Sepsis is a major cause of avoidable deaths in our hospitals.
Demonstrating That The Quality of Sepsis Management Can Be Improved
Elaborating the Inequalities in Sepsis Mortality Among Different Countries

- Australia 2000-2012: 35.0% → 18.5%
- England 2000-2012: 45.5% → 32.1%
- USA 2009-2014: 39.9% → 23.2%
- Germany 2010-2013: 47.8% → 43.6%
- Brazil 2015: 55.7%
- Turkey 2015: 62.6%
Google hits as of January 2018 for the following World Health Days:

- Sepsis 9.4 Mio
- AIDS 15.7 Mio
- Cancer 17 Mio
Developing Novel Approaches for Education and Communication

1st World Sepsis Congress

15,000 Registrants
50,000 Viewers/Listeners

GSA Global Sepsis Alliance

stop sepsis save lives

September 13, 2015
These Joint Efforts Resulted in an Increase in Sepsis Awareness 2013-2016

- USA: 44% to 55%
- UK: 40% to 67%
- Germany: 49% to 62%
- Brasil: 7% to 14%
GSA Key Goals for 2018-2020

• Have a Global Sepsis Action Plan
• National cross-sectoral coalitions in at least 50% UN member states
• At least 25% of countries with effective and funded national sepsis plans in place
• Regional sepsis alliances in all continents where WHO holds regional offices
• Have World Sepsis Day mandated by WHA/WHO
Countries With Nationwide Sepsis Activities or Intented national Sepsis Plans:

- Australia
- Abu Dhabi
- Brazil
- Canada
- England
- Germany
- Ireland
- Oman

- Scotland
- Spain
- Saudi Arabia
- Sudan
- Turkey
- Wales
- Uganda
- USA/ New York State...
The Kampala Declaration
Commitment to improve care for sepsis and severely ill patients in Africa

Kampala, Uganda 20 October 2017
The African Sepsis Alliance, the African Federation of Critical Care Nurses, the Global Sepsis Alliance, and the World Federation of Critical Care Nurses call for urgent and effective national and international action to develop and implement sepsis improvement programmes throughout Africa.

II. Acknowledging that there are variations, health care services in Africa are currently ill equipped to identify and look after severely ill patients such as those with sepsis. The existing inadequate data and preventable cause of death in Africa, resulting in over two million estimated deaths per year in Africa. It kills young people in Africa and leads to a disproportionate number of years of life lost.
Sepsis -
The Most Preventable Cause of Death and Disability in Europe

Objectives and Expected Results

To highlight the human and economic burden of sepsis

Each year in Europe, more than 3.4 million individuals develop sepsis, 700,000 do not survive, and an additional one-third of survivors die during the following year. Many survivors face long-term consequences, including physical, mental, and cognitive difficulties.

To point out that sepsis is preventable

Sepsis is a preventable condition if recognized and treated early. The 2017 WHO Resolution “Improving Prevention, Diagnosis and Clinical Management of Sepsis” urges UN Member States to develop national strategies to increase public awareness and implement training for all healthcare professionals on infection prevention and the early recognition and management of sepsis.

The development and implementation of a Pan-European sepsis strategy

Bringing together all stakeholders, including patients and their families, with the aim to increase understanding that improvement of early recognition and appropriate management of sepsis must become the keystone of the Pan-European infection management strategy.

To achieve these objectives, we will launch the European Sepsis Alliance (ESA).

Patron: EU Commissioner for Health & Food Safety, Vytenis Andriukaitis

“The time to act on sepsis is now. Through concerted efforts by all member states, the EU has the opportunity to save hundreds of thousands of lives and improve the quality of life for survivors.”

To achieve these objectives we will launch the European Sepsis Alliance on March 20th

A Call to Action
Brussels, March 20th, 2018
14:30 – 19:45
Venue to be announced at a later date

More Information & Free Registration
https://www.global-sepsis-alliance.org/acalltoaction
Sepsis Must Become The Keystone of Any Infection Management Plans

- Prevention
  - Vaccination
  - Reduction of nosocomial infection
  - WAHS

- Sepsis
  - Early detection
  - Treatment as emergency
  - Quality assurance

- AMR-Strategy
  - Antibiotic-Stewardship
  - Prevention of misuse
  - One-health-approach

National & Global Infection Management Plans
Share Our Vision

A World Free of Sepsis