



COLOURS OF SEPSIS
FESTIVAL INTENZIVNÍ MEDICÍNY

Co je **METABOLICKÁ RESUSCITACE**

**MUDr. JAN VARADY
KARIM FNO
28.1.2020**

Saphire

08:30 - 10:10 METABOLICKÁ RESUSCITACE

Předsedající: MUDr. K. Galková, Ph.D., (Nitra), MUDr. J. Chvojka, Ph.D., (Plzeň)



Co je metabolická resuscitace MUDr. J. Varady
(Ostrava)

Role pro vitamíny MUDr. M. Frelich, Ph.D., (Ostrava)

Role pro stopové prvky Doc. MUDr.J. Firment, Ph.D.,
(Košice)

Další metabolické resuscitátory MUDr. J. Köppl
(Bratislava)



Co je „metabolická resuscitace“ ?

- ▶ Sepsis is life-threatening organ dysfunction caused by a **dysregulated** host response to infection

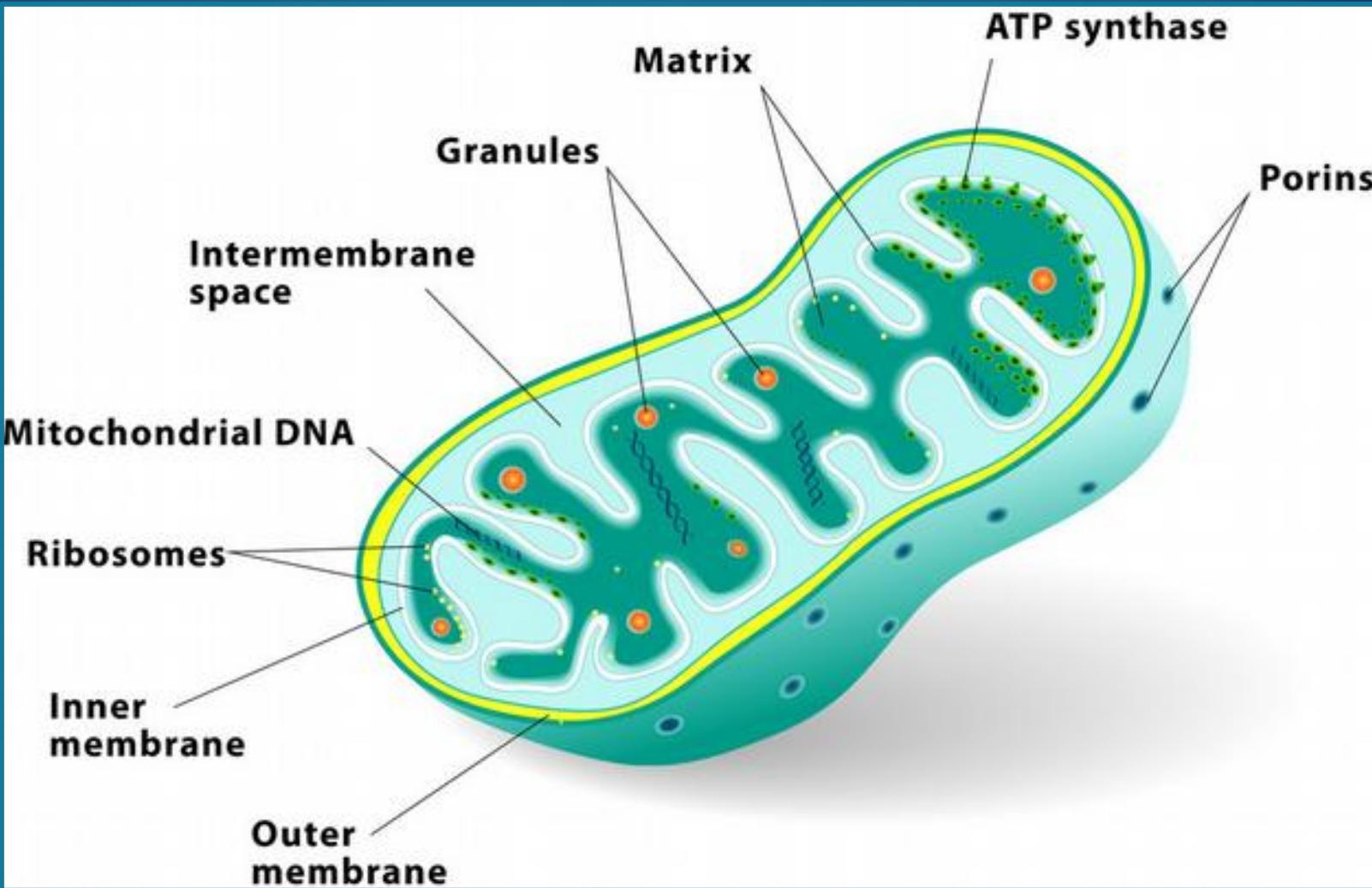
The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3)

Mervyn Singer, MD, FRCP; Clifford S. Deutschman, MD, MS; Christopher Warren Seymour, MD, MSc; Manu Shankar-Hari, MSc, MD, FFICM; Djillali Annane, MD, PhD; Michael Bauer, MD; Rinaldo Bellomo, MD; Gordon R. Bernard, MD; Jean-Daniel Chiche, MD, PhD; Craig M. Coopersmith, MD; Richard S. Hotchkiss, MD; Mitchell M. Levy, MD; John C. Marshall, MD; Greg S. Martin, MD, MSc; Steven M. Opal, MD; Gordon D. Rubenfeld, MD, MS; Tom van der Poll, MD, PhD; Jean-Louis Vincent, MD, PhD; Derek C. Angus, MD, MPH

Sepse a Septický šok

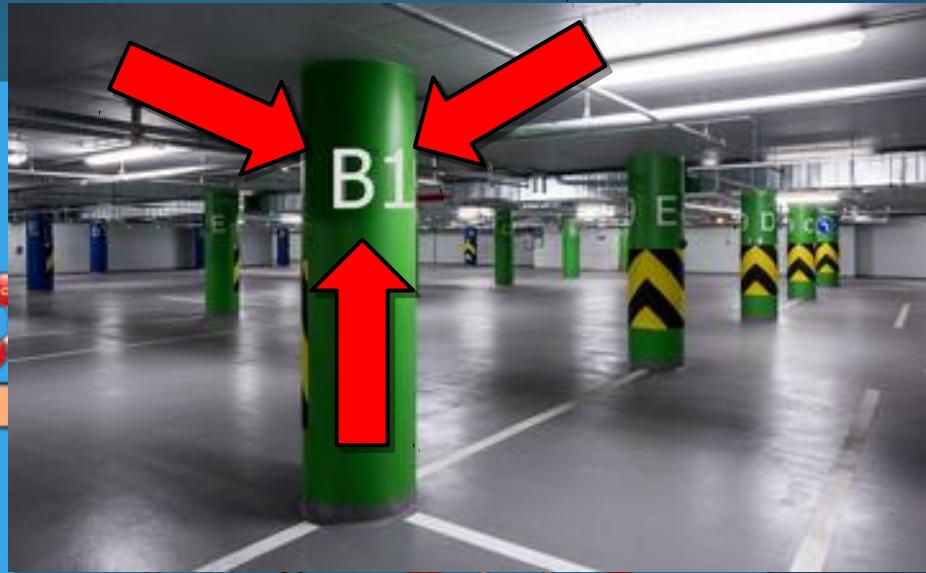
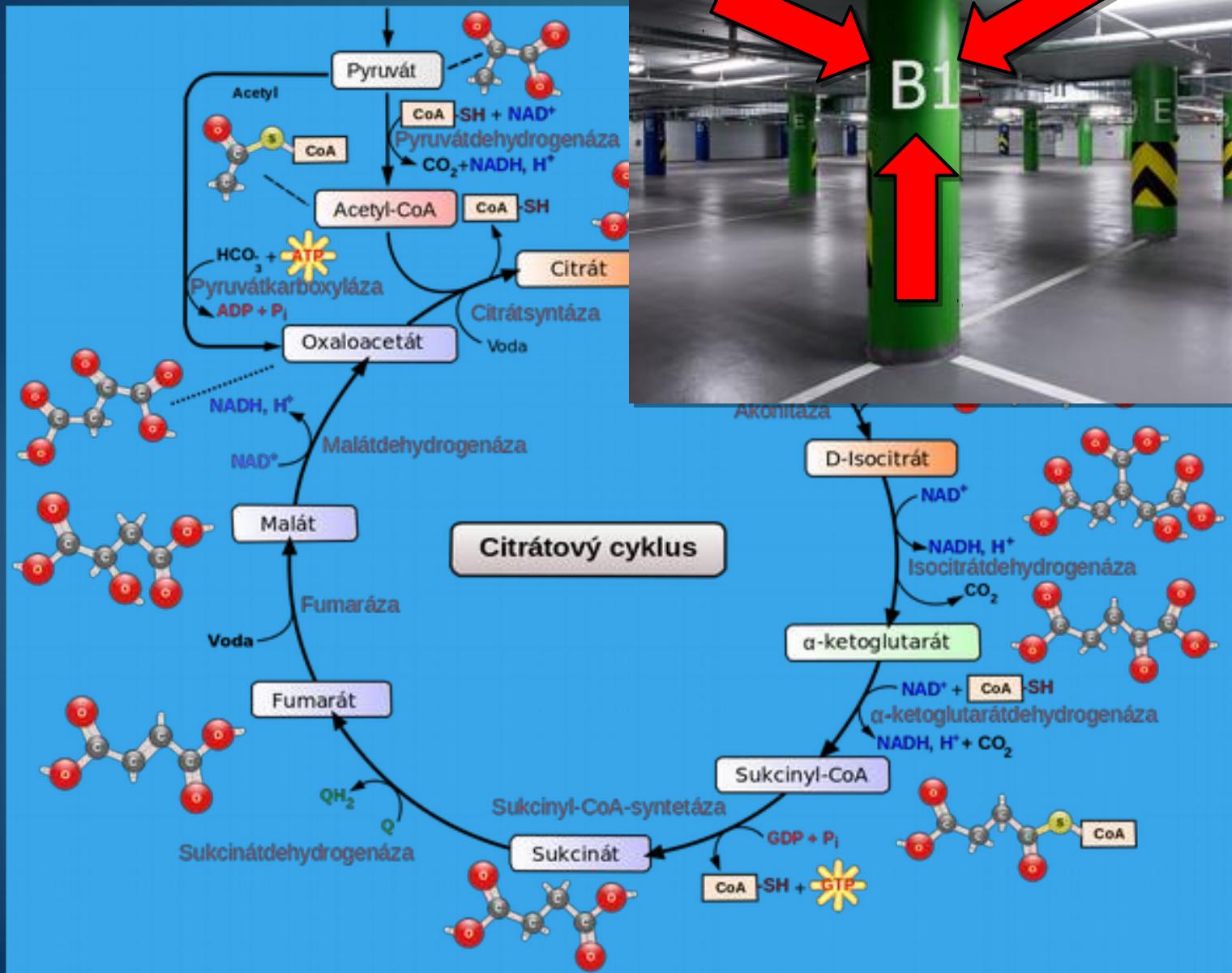
- ▶ Urgent recognition
 - Sepsis-3** SIRS x SOFA
- ▶ Broad-spectrum ATB
- ▶ Fluid therapy
- ▶ Vasopressors
- ▶ Source control
- ▶ **8 % STEMI**





Mitochondria targeted therapy

Mitochondrie



NADH + H⁺
FADH₂

O₂

ATP

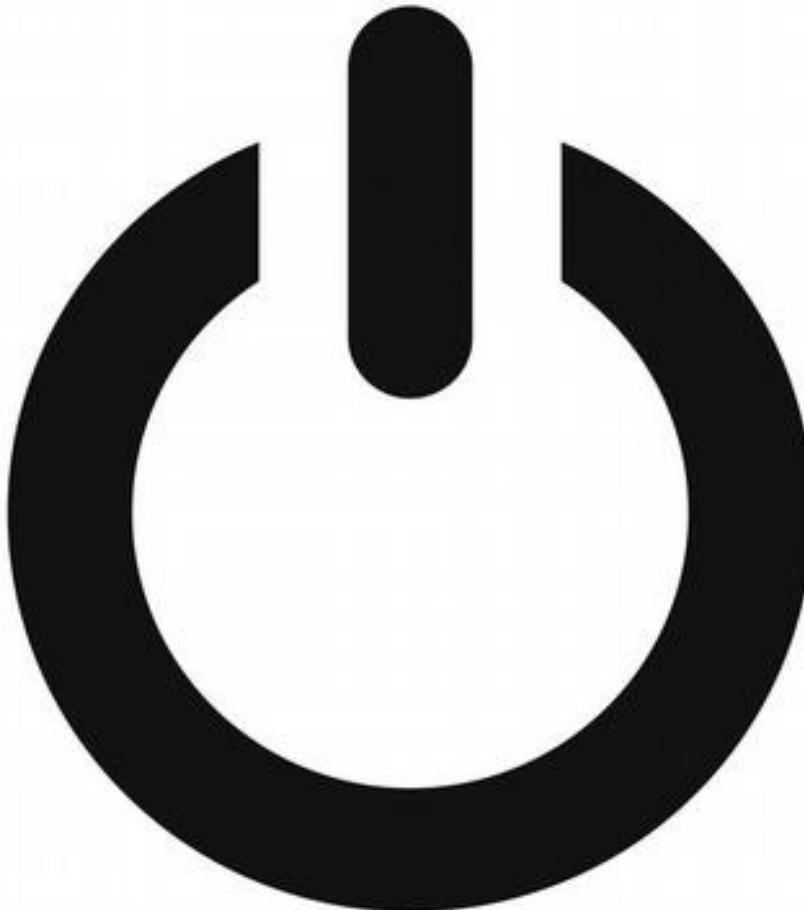
β-oxidace

Laktát



Oxidativní stres

ROS



ROS

NOX
eNOS
iNOS
XanthinOxidase
Lipoxygenase
Cyclooxygenase
...

RNS

ROS

RNS

Metabolická resuscitace



Paul Marik

007 Marik COCKTAIL:
VITAMIN C 1,5g a 6 h
Hydrokortison 50mg a 6 h
Thiamin 200mg a 12 h

SHAKEN,
NOT STIRRED !!!





Děkuji za pozornost