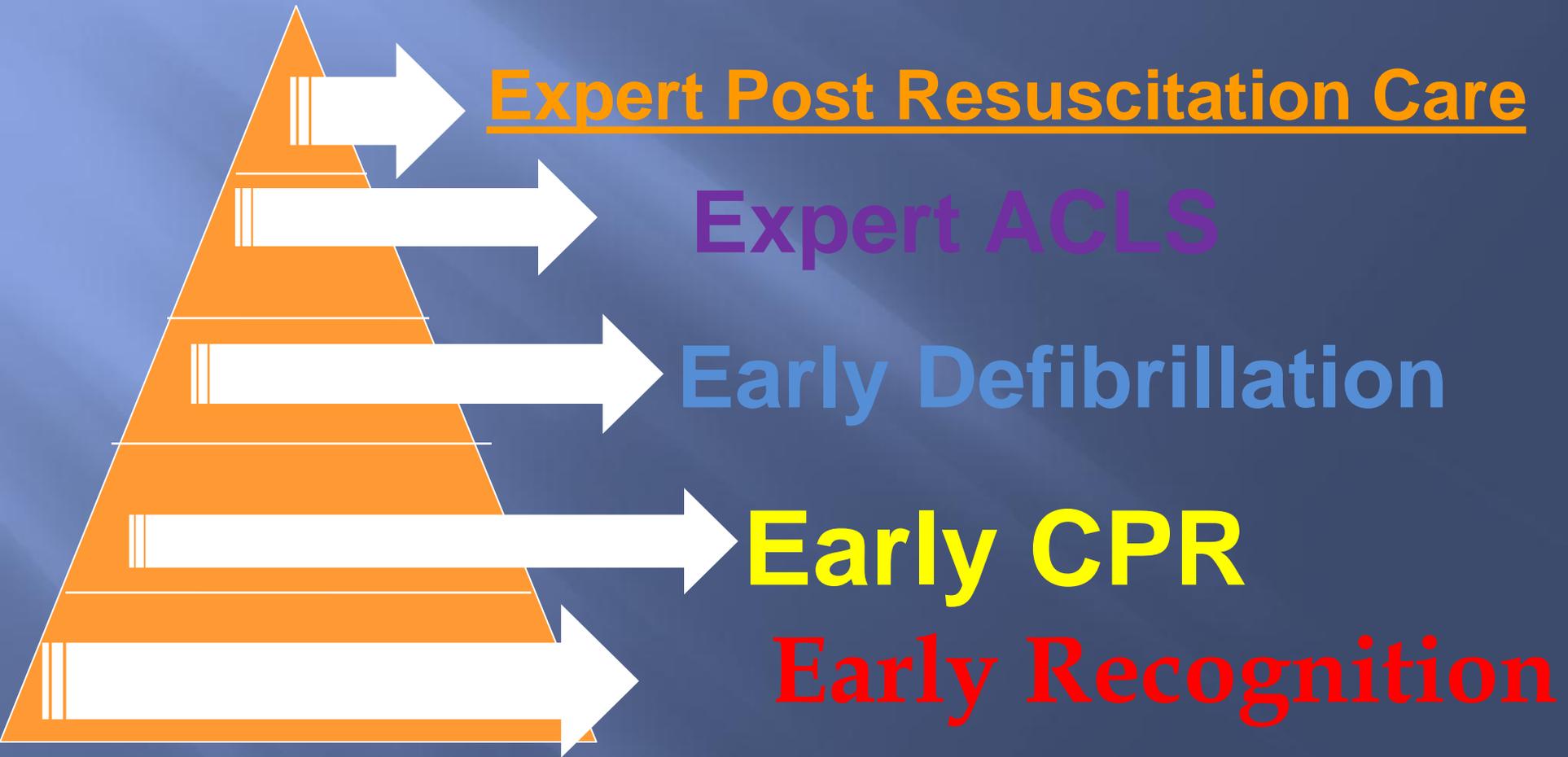


PROLONGED LIFE SUPPORT (PLS)

ارائه از افشین فرهانچی
متخصص بیهوشی و مراقبتهای ویژه
دانشگاه علوم پزشکی همدان (ابن سینا)

Pyramid of Resuscitation



We learn

1- Define **Successful CPR**

-----Post Resuscitation **CARE**

2- Define **CVS** Evaluation & Support

3- Define **CNS** Evaluation & Support

4- Define **PUL** Evaluation & Support

احیا موفق

بازگشت خودبخود جریان خون:

□ ریتم سوپرا و نتریکولار با نبض

□ فشار سیستولیک بالای ۶۰

ارزیابی ارگانهای اصلی و حمایت از آنها

- سیستم قلبی عروقی
- سیستم مغز و اعصاب
- سیستم تنفسی و ریوی
- سیستم کلیوی

EVALUATION CARDIOVASCULAR

1. 12 LEAD ECG
2. EMERGENCY CORONARY ANGIOGRAPHY
3. ECHO
4. CXR

SUPPORT CARDIOVASCULAR

1- VOLUME

2- VASOACTIVES

3- INOTROPE

4- INODILATOR

5- ANTI ARHYTHMIA

6 - STENT / CABG / IABP / LVAD

EVALUATION NEUROLOGIC

1- EEG

2 - IMAGING

SUPPORT

NEUROLOGIC

- 1- Maintain CPP (MAP/ICP/CVP)
- 2- Hypothermia
- 3- Sedation & Paralysis
- 4- Glucose Control
- 5- Seizure Treatment
- 6- Head up Position

EVALUATION PULMONARY

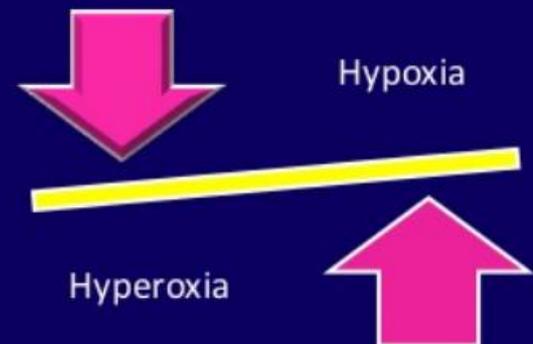
1. ABG
2. CAPNOGRAPHY
3. CXR
4. Injury

SUPPORT PULMONARY

- 1- Normocapnia
- 2- Normoxia
- 3- Prevent Lung

Ventilatory Support

- Goals:
 - $SpO_2 \sim 94-99\%$
 - $PaCO_2 - 40-45$ mmHg.
- How?
 - Titrate FiO_2
 - Set Tidal volume of 6-7 ml/kg
 - 10-12 breath/mt



Prolonged Life Support

Rules of 100s

1 - S.B.P \geq 100

2 - Spo2 $<$ 100

3 - B.S \geq 100

4 - U.O.P = 100

5 - Temp $<$ 100

6 - M.V = 100

1- BLOOD PRESSURE (PERFUSION)

(100 mmhg)

Fluid

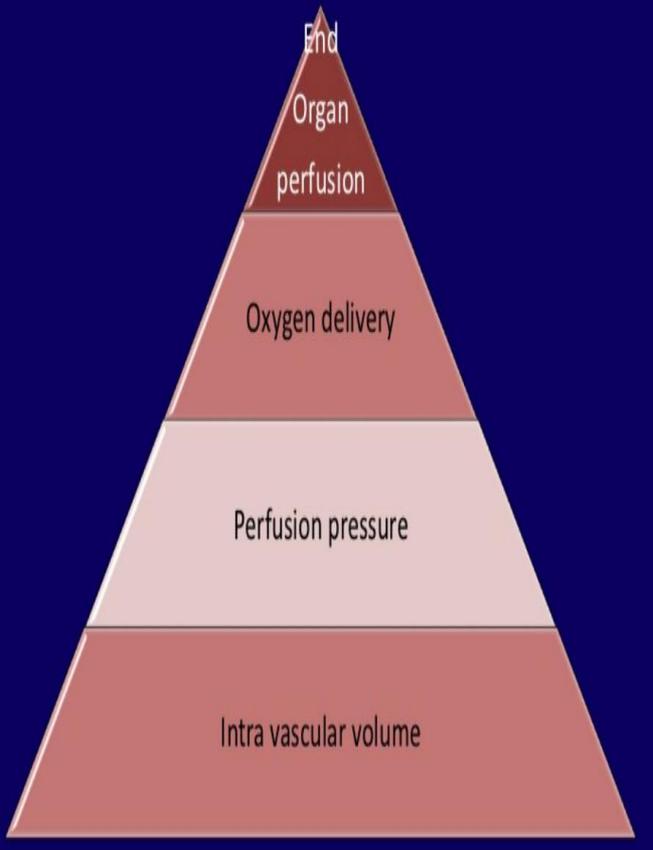
Vasopressor

Inotrope

Anti arrhythmic

NORMOTENSION

Optimization of Cardio Vascular function



2 - OXYGENATION

(SpO₂ < 100 %)

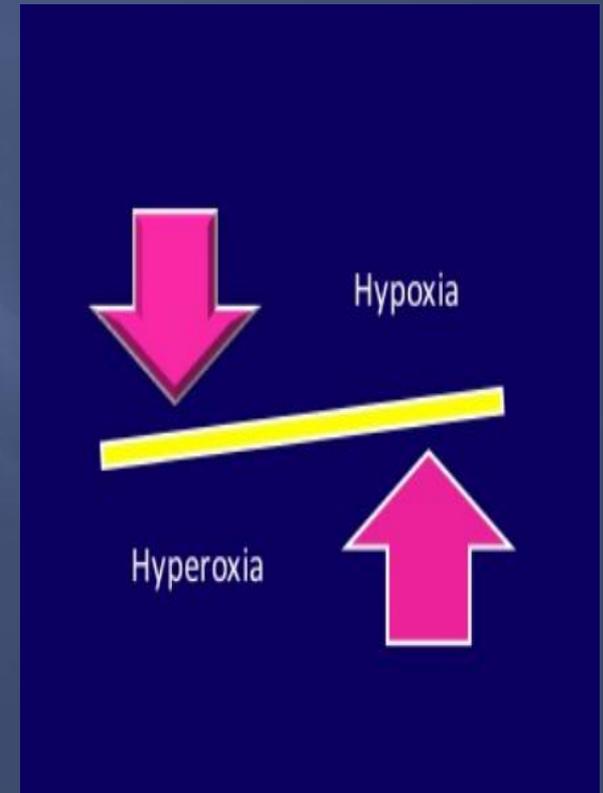
O₂

Hb / Hct

Ventilation

Circulation

NORMOXIA



3 - VENTILATION

M.V = 100%

↓ ICP & Brain Edema

Correct Acidosis

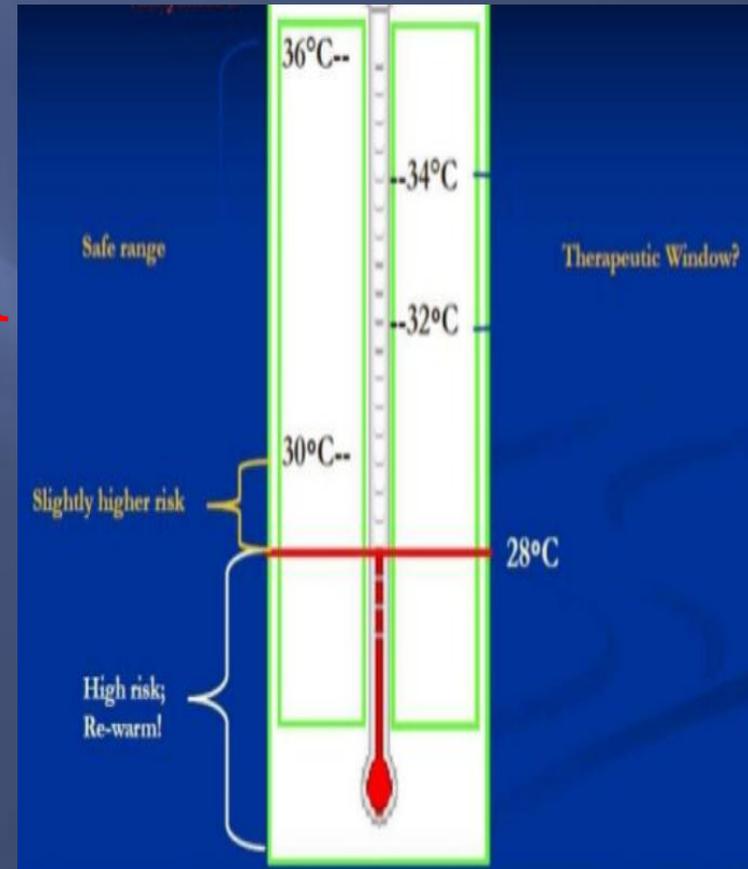
Remove CO₂ (HCO₃)

NORMOVENTILATION

4 - TEMPRATURE

<100 f

HYPOTHERMIA



5 – Urine Out put

100 ml / h

6 – Blood Glucose

≥ 100 mg / dl

Prolonged Life Support

7 – Sedation / Paralysis & Anticonvulsant

8 – Corticosteroid

9 – Metabolite demands

10-Physical Injury

11 – SPECIFIC THERAPY

Membrane stabilizer/anti free radical