



# **Update sui Corsi EPALS EPILS NLS**

**Miriam Tumolo**

UOC Anestesia e Rianimazione  
Neonatale e Pediatrica  
Istituto Giannina Gaslini -  
Genova

# EPALS - Programma

## EPALS VLE – provider standard program

DAY 1 EPALS	Advised length of session
Registration & Faculty meeting	
Introduction	20'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations: AB and C	2*2 classes, 1 switch after 70'
Demo ABC scenario's	15'
ABC scenario's	2*2 classes, 1 switch after 60'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

DAY 2 EPALS	Advised length of session
Cardiac Arrest Advanced Algorithms	whole group, 20'
ALS: Shockable and Non-Shockable	2*2 classes, 1 switch after 40'
Introduction to TEAMWORK; DEMO ALS – DEMO Trauma	whole group, 40'
ALS & trauma scenario	2*2 classes, 1 switch after 90'
Demo post-resuscitation care & hand-over	whole group, 20'
Post-resuscitation & handover scenario	4 parallel classes, 45'
Theoretical test + CAS test:	< 120' (CAS max. 12' per candidate incl. feedback)

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. The final testing should be completed within the allocated time. The course ends with a drink to discuss results and provide some limited time for final mentoring.

# EPALS – EPILS : modularità?

## EPALS VLE – provider standard program

DAY 1 EPALS	Advised length of session
Registration & Faculty meeting	
Introduction	20'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations: AB and C	2*2 classes, 1 switch after 70'
Demo ABC scenario's	15'
ABC scenario's	2*2 classes, 1 switch after 60'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

## EPILS LIVE – provider standard program

EPILS	Advised length of session
Registration & Faculty meeting	
Introduction	10'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations: AB and C	4 parallel classes, 60'
Demo ABC scenario's	15'
ABC scenario's	4 parallel classes, 75'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'

! There is 1 coffee break and a lunch/reception to schedule, as well as some time for faculty meeting and mentoring. Depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

# EPALS – EPILS : modularità?

## EPALS VLE – provider standard program

DAY 1 EPALS	Advised length of session
Registration & Faculty meeting	
Introduction	20'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations: AB and C	2*2 classes, 1 switch after 70'
Demo ABC scenario's	15'
ABC scenario's	2*2 classes, 1 switch after 60'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

## EPILS LIVE – provider standard program

EPILS	Advised length of session
Registration & Faculty meeting	
Introduction	10'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations: AB and C	4 parallel classes, 60'
Demo ABC scenario's	15'
ABC scenario's	4 parallel classes, 75'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'

! There is 1 coffee break and a lunch/reception to schedule, as well as some time for faculty meeting and mentoring. Depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

# EPALS

*The focus of the course and the learning objectives: being able to stabilize a sick child during the first 30-60' after encounter, as part of and/or leading the resuscitation team.*

Introduction	20'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations: AB and C	2*2 classes, 1 switch after 70'
Demo ABC scenario's	15'
ABC scenario's	2*2 classes, 1 switch after 60'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

# EPILS

*The focus of the course and the learning objectives: being able to stabilize a sick child during the first 5' after encounter, awaiting the arrival of a resuscitation team.*

Introduction	10'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations: AB and C	4 parallel classes, 60'
Demo ABC scenario's	15'
ABC scenario's	4 parallel classes, 75'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'

! There is 1 coffee break and a lunch/reception to schedule, as well as some time for faculty meeting and mentoring. Depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

# EPALS

**70 min x 2 = 1h 20 min**

**2 stazioni che fanno scenari AB e  
2 stazioni che fanno scenari C**  
con **time-out** per insegnamento abilità  
pratiche (metodi di somm. O2, BMV  
stabilizzazione in linea del rachide  
cervicale, cannula oro/nasofaringea,  
decompressione pnx, intraossea)

Embedded Knowledge & Skills stations: AB and C	2*2 classes, 1 switch after 70'
Demo ABC scenario's	15'
ABC scenario's	2*2 classes, 1 switch after 60'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

# EPILS

## EPILS LIVE – provider standard program

**60 min**

**4 stazioni che fanno stessi scenari**  
con **time-out** per insegnamento  
abilità pratiche (metodi di somm. O2,  
BMV)

Embedded Knowledge & Skills stations: AB and C	4 parallel classes, 60'
Demo ABC scenario's	15'
ABC scenario's	4 parallel classes, 75'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'

! There is 1 coffee break and a lunch/reception to schedule, as well as some time for faculty meeting and mentoring. Depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

# EPALS

## EPALS VLE – provider standard program

DAY 1 EPALS	Advised length of session
<p><b>60 min x 2 = 2 h</b></p> <p><i>4 stazioni che fanno scenari diversi, due a due</i></p>	
ABC scenario's	2*2 classes, 1 switch after 60'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'
<p>! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.</p>	

# EPILS

## EPILS LIVE – provider standard program

EPILS	Advised length of session
<p><b>75 min</b></p> <p><i>4 stazioni che fanno tutte gli stessi scenari</i></p>	
ABC scenario's	4 parallel classes, 75'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
<p>! There is 1 coffee break and a lunch/reception to schedule, as well as some time for faculty meeting and mentoring. Depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.</p>	



# EPALS

## EPALS VLE – provider standard program

DAY 1 EPALS	Advised length of session
Registration & Faculty meeting	
Introduction	20'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations:	2*2 classes.
<p><i>2 stazioni DAE e</i>  <i>2 stazioni Ostruz. da Corpo Estraneo</i>  <i>Nelle due stazioni DAE esercitazione con brevi scenari anche extraospedalieri</i></p>	
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'
<p>! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.</p>	

# EPILS

## EPILS LIVE – provider standard program

EPILS	Advised length of session
Registration & Faculty meeting	
Introduction	10'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations:	
<p><i>2 stazioni DAE e</i>  <i>2 stazioni Ostruz. da Corpo Estraneo</i>  <i>Nelle due stazioni DAE esercitazione con brevi scenari solo intraospedalieri</i></p>	
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
<p>! There is 1 coffee break and a lunch/reception to schedule, as well as some time for faculty meeting and mentoring. Depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.</p>	



# EPALS

## EPALS VLE – ... standard program

DAY 1 EPALS	
ABC scenario	60'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'

**durata totale  
(senza pause)  
425 min  
7 ore e 5 min**

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

# EPILS

## EPILS LIVE – ... standard program

EPILS LIVE	
ABC scenario's	75'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'

**durata totale  
(senza pause)  
290 min  
4 ore e 50 min**

! There is 1 coffee break and a lunch/reception to schedule, as well as some time for faculty meeting and mentoring. Depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

# EPALS – EPILS : modularità?



# EPALS - Programma

## EPALS VLE – provider standard program

DAY 1 EPALS	Advised length of session
Registration & Faculty meeting	
Introduction	20'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations: AB and C	2*2 classes, 1 switch after 70'
Demo ABC scenario's	15'
ABC scenario's	2*2 classes, 1 switch after 60'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

DAY 2 EPALS	Advised length of session
Cardiac Arrest Advanced Algorithms	whole group, 20'
ALS: Shockable and Non-Shockable	2*2 classes, 1 switch after 40'
Introduction to TEAMWORK; DEMO ALS – DEMO Trauma	whole group, 40'
ALS & trauma scenario	2*2 classes, 1 switch after 90'
Demo post-resuscitation care & hand-over	whole group, 20'
Post-resuscitation & handover scenario	4 parallel classes, 45'
Theoretical test + CAS test:	< 120' (CAS max. 12' per candidate incl. feedback)

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. The final testing should be completed within the allocated time. The course ends with a drink to discuss results and provide some limited time for final mentoring.

# EPALS - Programma

## EPALS VLE – provider standard program

DAY 1 EPALS	Advised length of session
Registration & Faculty meeting	
Introduction	20'
Recognition of the critically ill child	whole group, 30'
Embedded Knowledge & Skills stations: AB and C	2*2 classes, 1 switch after 70'
Demo ABC scenario's	15'
ABC scenario's	2*2 classes, 1 switch after 60'
Demo BLS	whole group, 10'
BLS basic	4 parallel classes, 30'
BLS 'AED' – 'FBAO'	2*2 classes, 1 switch after 30'
Demo NLS	Whole group, 25'
NLS	4 parallel classes, 45'

! There are 2 coffee breaks and a lunch to schedule, as well as time for faculty meeting and mentoring. Especially for day 1, depending on the profile of the candidates, the course director can decide to lengthen certain topics and decrease time allocated for others. This is acceptable as long as the rationale of the chronology and the learning goals are respected.

## EPALS 2016

**Date :** 2016  
**Location :**  
**Course director :**  
**Co-director :**

### Day 1

08.00 - 08.30: Registration & Faculty meeting  
 08.30 - 08.50: Introduction  
 08.50 - 09.20: Session: "Recognition of the critically ill child"  
 9.20 - 10.30: Embedded Knowledge & Skills stations: AB and C – session 1

Class 1: AB	Class 2: C (1-2-3)	Class 3: AB	Class 4: C (1-3-2)
Group 1	Group 2	Group 3	Group 4

Class 3 and 4 have a different order of cases so that E2-IO training material can switch between classes; alternatively there is one additional switch between both C classes (see instructor manual). This is not needed if you have two E2-IO training sets.

10.30 - 10.45: Coffee break  
 10.45 - 11.55: Embedded Knowledge & Skills stations: AB and C – session 2 (2 x 2 groups)

Class 1: AB	Class 2: C (1-2-3)	Class 3: AB	Class 4: C (1-3-2)
Group 2	Group 1	Group 4	Group 3

11.55 - 12.10: DEMO: ABC scenarios

12.10 - 13.00: Lunch (+ faculty meeting)

13.00 - 14.00: ABC scenarios – session 1

Class 1: Sc 1-5	Class 2: Sc 2/6-9	Class 3: Sc1-5	Class 4: Sc 2/6-9
Group 3	Group 4	Group 1	Group 2

14.00 - 15.00: ABC scenarios – session 2

Class 1: Sc 1-5	Class 2: Sc 2/6-9	Class 3: Sc1-5	Class 4: Sc 2/6-9
Group 4	Group 3	Group 2	Group 1

15.00 - 15.10: DEMO: BLS  
 15.10 - 15.40: BLS basic

Class 1: Group 1	Class 2: Group 2	Class 3: Group 3	Class 4: Group 4
---------------------	---------------------	---------------------	---------------------

15.40 - 15.55: Coffee Break

# EPALS 2016

**Date :** 2016

**Location :**

**Course director :**

**Co-director :**

## Day 1

08.00 - 08.30: Registration & Faculty meeting  
08.30 - 08.50: Introduction  
08.50 - 09.20: Session: "Recognition of the critically ill child"  
9.20 - 10.30: Embedded Knowledge & Skills stations: AB and C – session 1

Class 1:	Class 2:	Class 3:	Class 4:
AB	C ( 1-2-3 )	AB	C ( 1-3-2 )
Group 1	Group 2	Group 3	Group 4

Class 2 and 4 have a different order of cases so that EZ-IO training material can switch between classes, alternatively there is one additional switch between both C classes (see instructor manual). This is not needed if you have two EZ-IO training sets.

10.30 - 10.45: Coffee break  
10.45 - 11.55: Embedded Knowledge & Skills stations: AB and C – session 2 (2 x 2 groups)

Class 1:	Class 2:	Class 3:	Class 4:
AB	C (1-2-3)	AB	C (1-3-2)
Group 2	Group 1	Group 4	Group 3

11.55 – 12.10: DEMO: ABC scenarios

12.10 - 13.00: Lunch (+ faculty meeting)

13.00 – 14.00: ABC scenarios – session 1

Class 1:	Class 2:	Class 3:	Class 4:
Sc 1-5	Sc 2/6-9	Sc1-5	Sc 2/6-9
Group 3	Group 4	Group 1	Group 2

14.00 - 15.00: ABC scenarios – session 2

Class 1:	Class 2:	Class 3:	Class 4:
Sc 1-5	Sc 2/6-9	Sc1-5	Sc 2/6-9
Group 4	Group 3	Group 2	Group 1

15.00 - 15.10: DEMO: BLS

15.10 – 15.40: BLS basic

Class 1:	Class 2:	Class 3:	Class 4:
Group 1	Group 2	Group 3	Group 4

15.40 – 15.55: Coffee Break

**Riconoscimento del  
bambino critico**

**Lezione frontale**



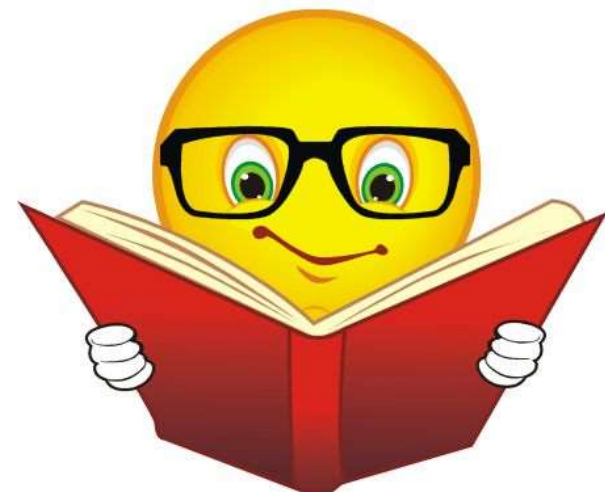
**workshop su casi clinici**



ERC



IRC



# EPALS 2016

**Date :** 2016  
**Location :**  
**Course director :**  
**Co-director :**

## Day 1

08.00 - 08.30: Registration & Faculty meeting  
 08.30 - 08.50: Introduction  
 08.50 - 09.20: Session: "Recognition of the critically ill child"  
 9.20 - 10.30: Embedded Knowledge & Skills stations: AB and C – session 1

Class 1:	Class 2:	Class 3:	Class 4:
AB	C ( 1-2-3 )	AB	C ( 1-3-2 )
Group 1	Group 2	Group 3	Group 4

Class 2 and 4 have a different order of cases so that EZ-IO training material can switch between classes, alternatively there is one additional switch between both C classes (see instructor manual). This is not needed if you have two EZ-IO training sets.

10.30 - 10.45: Coffee break  
 10.45 -11.55: Embedded Knowledge & Skills stations: AB and C – session 2 (2 x 2 groups)

Class 1:	Class 2:	Class 3:	Class 4:
AB	C (1-2-3)	AB	C (1-3-2)
Group 2	Group 1	Group 4	Group 3

11.55 – 12.10: DEMO: ABC scenarios

12.10 - 13.00: Lunch (+ faculty meeting)

13.00 – 14.00: ABC scenarios – session 1

Class 1:	Class 2:	Class 3:	Class 4:
Sc 1-5	Sc 2/6-9	Sc1-5	Sc 2/6-9
Group 3	Group 4	Group 1	Group 2

14.00 - 15.00: ABC scenarios – session 2

Class 1:	Class 2:	Class 3:	Class 4:
Sc 1-5	Sc 2/6-9	Sc1-5	Sc 2/6-9
Group 4	Group 3	Group 2	Group 1

15.00 - 15.10: DEMO: BLS  
 15.10 – 15.40: BLS basic

Class 1:	Class 2:	Class 3:	Class 4:
Group 1	Group 2	Group 3	Group 4

15.40 – 15.55: Coffee Break

## Embedded knowledge and skills

Abilità pratiche inserite negli scenari sotto forma di time-out

### Scenari AB

- 1: bronchiolite (time-out: metodi di somministrazione dell'O<sub>2</sub>, BMV)
- 2: trauma (time-out: stabilizzazione in linea del rachide cervicale, cannula oro/nasofaringea, decompressione pnx)

### Scenari C

- 1: insufficienza circolatoria (accesso vascolare, fluidi, possibili cause)
- 2: trauma con rottura splenica (time-out: accesso IO)
- 3: TSV (adenosina)



# Generic Instructor Course



Presso Edizioni Edizite



EBOC, per la Formazione Continua



# EPALS 2016

**Date :** 2016  
**Location :**  
**Course director :**  
**Co-director :**

## Day 1

08.00 - 08.30: Registration & Faculty meeting  
 08.30 - 08.50: Introduction  
 08.50 - 09.20: Session: "Recognition of the critically ill child"  
 9.20 - 10.30: Embedded Knowledge & Skills stations: AB and C – session 1

Class 1:	Class 2:	Class 3:	Class 4:
AB	C (1-2-3)	AB	C (1-3-2)
Group 1	Group 2	Group 3	Group 4

Class 2 and 4 have a different order of cases so that E2-IO training material can switch between classes. If there is one additional switch between both C classes (see instructor manual). This is not needed if you have two training sets.

10.30 - 10.45: Coffee break  
 10.45 - 11.55: Embedded Knowledge & Skills stations: AB and C – session 2 (2 x 2 groups)

Class 1:	Class 2:	Class 3:	Class 4:
AB	C (1-2-3)	AB	C (1-3-2)
Group 2	Group 1	Group 4	Group 3

11.55 – 12.10: DEMO: ABC scenarios

12.10 - 13.00: Lunch (+ faculty meeting)

13.00 – 14.00: ABC scenarios – session 1

Class 1:	Class 2:	Class 3:	Class 4:
Sc 1-5	Sc 2/6-9	Sc 1-5	Sc 2/6-9
Group 3	Group 4	Group 1	Group 2

14.00 - 15.00: ABC scenarios – session 2

Class 1:	Class 2:	Class 3:	Class 4:
Sc 1-5	Sc 2/6-9	Sc 1-5	Sc 2/6-9
Group 4	Group 3	Group 2	Group 1

15.00 - 15.10: DEMO: BLS  
 15.10 – 15.40: BLS basic

Class 1:	Class 2:	Class 3:	Class 4:
Group 1	Group 2	Group 3	Group 4

15.40 – 15.55: Coffee Break

## Demo scenario ABC

## Scenari intermedi ABC (periarresto)

- 1: **anafilassi** (adrenalina, bolo fluidi)
- 2: bronchiolite (insuff resp scomp, ipovolemia)
- 3: bronchiolite (insuff resp comp, apnea)
- 4: **asma** (O2, aerosol salbutamolo)
- 5: croup (O2, aerosol adrenalina)
- 6: polmonite (insuff resp scomp, ventilazione, intubazione)
- 7: **TSV** (adenosina)
- 8: gastroenterite (IO – 3 boli)
- 9: shock settico (2 boli, inotropi)

# EPALS 2016

Date : 2016  
Location :  
Course director :  
Co-director :

## Day 1

08.00 - 08.30: Registration & Faculty meeting  
08.30 - 08.50: Introduction  
08.50 - 09.20: Session: "Recognition of the critically ill child"  
9.20 - 10.30: Embedded Knowledge & Skills stations: AB and C - session 1

Class 1:	Class 2:	Class 3:	Class 4:
AB	C (1-2-3)	AB	C (1-3-2)
Group 1	Group 2	Group 3	Group 4

Class 2 and 4 have a different order of cases so that E2-IO training material can switch between classes, alternatively there is one additional switch between both C classes (see instructor manual). This is not needed if you have two E2-IO training sets.

10.30 - 10.45: Coffee break  
10.45 - 11.55: Embedded Knowledge & Skills stations: AB and C - session 2 (2 x 2 groups)

Class 1:	Class 2:	Class 3:	Class 4:
AB	C (1-2-3)	AB	C (1-3-2)
Group 2	Group 1	Group 4	Group 3

11.55 - 12.10: DEMO: ABC scenarios

12.10 - 13.00: Lunch (+ faculty meeting)

13.00 - 14.00: ABC scenarios - session 1

Class 1:	Class 2:	Class 3:	Class 4:
Sc 1-5	Sc 2/6-9	Sc 1-5	Sc 2/6-9
Group 3	Group 4	Group 1	Group 2

14.00 - 15.00: ABC scenarios - session 2

Class 1:	Class 2:	Class 3:	Class 4:
Sc 1-5	Sc 2/6-9	Sc 1-5	Sc 2/6-9
Group 4	Group 3	Group 2	Group 1

15.00 - 15.10: DEMO: BLS  
15.10 - 15.40: BLS basic

Class 1:	Class 2:	Class 3:	Class 4:
Group 1	Group 2	Group 3	Group 4

15.40 - 15.55: Coffee Break

15.55 - 16.25: BLS - AED - FBAO - session 1

Class 1:	Class 2:	Class 3:	Class 4:
AED	AED	FBAO	FBAO
Group 2	Group 1	Group 4	Group 3

16.25 - 16.55: BLS - AED - FBAO - session 2

Class 1:	Class 2:	Class 3:	Class 4:
AED	AED	FBAO	FBAO
Group 3	Group 4	Group 1	Group 2

16.55 - 17.20: Demo: NLS  
17.20 - 18.05: NLS

Class 1:	Class 2:	Class 3:	Class 4:
Group 4	Group 3	Group 2	Group 1

18.05 - 18.20: Mentor/mentee meeting  
18.20: Faculty

## Demo BLS a 1 soccorritore

- solo primo minuto
- no DAE
- 1° step latt,
- 2° step latt
- 2° step bis bambino

## BLS Basic

### 4 stazioni - 1° minuto

- 3° step BLS lattante
- un sottogruppo BLS lattante 1 e 2 socc
- un sottogruppo BLS bambino 1 e 2 socc
- posizione lat di sicurezza

## 2 Stazioni DAE

- Demo BLS bambino con applicazione DAE
- due sottogruppi si esercitano in brevi scenari BLS con ritmi defibrillabili e non defibrillabili

## 2 Stazioni Corpo Estraneo

- Workshop partire da scenario
- demo ed esercitazione manovre di disostruzione lattante e bambino

**Basic ???**



15.55 – 16.25:

BLS – AED – FBAO – session 1

Class 1:	Class 2:	Class 3:	Class 4:
AED	AED	FBAO	FBAO
Group 2	Group 1	Group 4	Group 3

16.25 – 16.55:

BLS – AED – FBAO – session 2

Class 1:	Class 2:	Class 3:
AED	AED	
Group 3	Group 4	

16.55 – 17.20:

Demo: NLS

17.20 – 18.05:

NLS

Class 1:	Class 2:	Class 3:	Class 4:
Group 4	Group 3	Group 2	Group 1

18.05 – 18.20:

Mentor/mentee meeting

18.20

Faculty

EPALS 2016

**25 minuti:**

**Demo scenario rianimaz. neonatale (1° e 2° step)  
+ Workshop algoritmo rianimazione neonatale**

- Importanza della temperatura
- BMV, ECG, compressioni toraciche, farmaci, fluidi, destrosio
- Ossigeno?
- Prematurità
- Post-rianimatorio



**Scenari neonato (uguali per tutte le stazioni)**

- 34 sett, nessun intervento
- 34 sett, 5 insufflaz, 1 ciclo RCP, ventilazioni
- 27 settimane, 5 insufflaz, ventilazioni
- A termine, meconio, insufflazioni, RCP
- 35 sett, distacco di placenta, insufflazioni, RCP, adrenalina, fluidi (**time-out: cateterismo ombelicale**)

# EPALS 2016

## Day 2

08.30 - 08.50: Session "Cardiac Arrest Advanced Algorithms"

08.50 - 09.30: ALS: Shockable and Non-Shockable – session 1

Class 1	Class 2	Class 3	Class 4
Shockable	Non-Shockable	Shockable	Non-Shockable
Group 1	Group 2	Group 3	Group 4

09.30 - 10.10: ALS: Shockable and Non-Shockable – session 2

Class 1	Class 2	Class 3	Class 4
Shockable	Non-Shockable	Shockable	Non-Shockable
Group 2	Group 1	Group 4	Group 3

10.10 - 10.25: Coffee break

10.25 - 11.05: Introduction to TEAMWORK

DEMO ALS

DEMO Trauma

11.05 - 12.35: ALS & trauma scenario – session 1

Class 1	Class 2	Class 3	Class 4
ALS	Trauma	ALS	Trauma
Group 3	Group 4	Group 1	Group 2

12.35 - 13.25: Lunch (+ faculty meeting)

13.25 - 14.55: ALS & trauma scenario – session 2

Class 1	Class 2	Class 3	Class 4
ALS	Trauma	ALS	Trauma
Group 4	Group 3	Group 2	Group 1

14.55 - 15.15: Demo: "Post-resuscitation care & hand-over"

15.15 - 16.00: Post-resuscitation & handover scenario

Class 1	Class 2	Class 3	Class 4
Group 1	Group 2	Group 3	Group 4

16.00 - 16.20: Coffee break + preparation for testing

16.20 - 18.00: Theoretical testing & CAS Test

18.00 - 18.30: Faculty meeting

18.30: Results, feedback & Drink

## Workshop arresto cardiaco

- solo riconoscimento ritmi e HQ CPR
- algoritmi nelle stazioni pratiche

## Stazione pratica ALS

- demo algoritmi 3° step (1° e 2°?)

## Stazione ritmi defibrillabili

- time-out per demo uso defibrillatore 2° e 3° step (1°?)
- tutti provano alternandosi durante le rivalutazioni

## Stazione ritmi non defibrillabili

- Lo scopo di queste stazioni è costruire gli algoritmi, esercitarsi nella HQ CPR (stazione ritmi non def) e nell'uso del defibrillatore (stazione ritmi def)

*Compared to the real scenario training later on, this is much more a 'run-through', that is interspersed by comments and advice by the instructor so to come to a perfect example of how the shockable and non-shockable arms of the algorithm evolve*



....1,2,3 **4** steps





# EPALS 2016

## Day 2

08.30 - 08.50: Session "Cardiac Arrest Advanced Algorithms"

08.50 - 09.30: ALS: Shockable and Non-Shockable – session 1

Class 1	Class 2	Class 3	Class 4
Shockable	Non-Shockable	Shockable	Non-Shockable
Group 1	Group 2	Group 3	Group 4

09.30 - 10.10: ALS: Shockable and Non-Shockable – session 2

Class 1	Class 2	Class 3	Class 4
Shockable	Non-Shockable	Shockable	Non-Shockable
Group 2	Group 1	Group 3	Group 4

10.10 - 10.25: Coffee break

10.25 - 11.05: Introduction to TEAMWORK

DEMO ALS

DEMO Trauma

11.05 - 12.35: ALS & trauma scenario – session 1

Class 1	Class 2	Class 3	Class 4
ALS	Trauma	ALS	Trauma
Group 3	Group 4	Group 1	Group 2

12.35 - 13.25: Lunch (+ faculty meeting)

13.25 - 14.55: ALS & trauma scenario – session 2

Class 1	Class 2	Class 3	Class 4
ALS	Trauma	ALS	Trauma
Group 4	Group 3	Group 2	Group 1

14.55 - 15.15: Demo: "Post-resuscitation care & hand-over"

15.15 - 16.00: Post-resuscitation & handover scenario

Class 1	Class 2	Class 3	Class 4
Group 1	Group 2	Group 3	Group 4

16.00 - 16.20: Coffee break + preparation for testing

16.20 - 18.00: Theoretical testing & CAS Test

18.00 - 18.30: Faculty meeting

18.30: Results, feedback & Drink

## Demo ALS (Arresto cardiaco) Demo Trauma (Teamwork)

### Stazioni scenari ALS e Trauma

senza time-out e interruzioni per commenti da parte dell'istruttore

### 2 Stazioni ALS (due defibrillatori)

- 1: TSV (cardioversione)
- 2: intossicazione da farmaci (PEA)
- 3: shock settico che evolve in PEA o TV senza polso
- 4: status epilepticus (BDZ)
- 5: IRC e iperkaliemia (FV)
- 6 (opzionale): SIDS (asistolia, deceduto)

### 2 Stazioni Trauma

- 7: trauma cranico + lacerazione della milza; piccolo pnx; frattura di femore
- 8: trauma cranico, ematoma extradurale
- 9: Amputazione parziale, shock emorragico
- 10: ustioni, rottura di milza
- 11: trauma toracico con pnx iperteso, emotorace, contusione polmonare

# EPALS 2016

## Day 2

08.30 - 08.50: Session "Cardiac Arrest Advanced Algorithms"

08.50 - 09.30: ALS: Shockable and Non-Shockable – session 1

Class 1	Class 2	Class 3	Class 4
Shockable	Non-Shockable	Shockable	Non-Shockable
Group 1	Group 2	Group 3	Group 4

09.30 - 10.10: ALS: Shockable and Non-Shockable – session 2

Class 1	Class 2	Class 3	Class 4
Shockable	Non-Shockable	Shockable	Non-Shockable
Group 2	Group 1	Group 4	Group 3

10.10 - 10.25: Coffee break

10.25 - 11.05: Introduction to TEAMWORK

DEMO ALS

DEMO Trauma

11.05 - 12.35: ALS & trauma scenario – session 1

Class 1	Class 2	Class 3	Class 4
ALS	Trauma	ALS	Trauma
Group 3	Group 4	Group 1	Group 2

12.35 - 13.25: Lunch (+ faculty meeting)

13.25 - 14.55: ALS & trauma scenario – session 2

Class 1	Class 2	Class 3	Class 4
ALS	Trauma	ALS	Trauma
Group 4	Group 3	Group 2	Group 1

14.55 - 15.15: Demo: "Post-resuscitation care & hand-over"

15.15 - 16.00: Post-resuscitation & handover scenario

Class 1	Class 2	Class 3	Class 4
Group 1	Group 2	Group 3	Group 4

16.00 - 16.20: Coffee break + preparation for testing

16.20 - 18.00: Theoretical testing & CAS Test

18.00 - 18.30: Faculty meeting

18.30: Results, feedback & Drink

## Demo post rianimatorio e handover

## Scenari post rianimatorio e handover

### 4 stazioni in parallelo

- Scenario 1: 16 mesi - meningoencefalite (convulsioni)
- Scenario 2: 4 mesi - ematoma extra durale post traumatico
- Scenario 3: 3 mesi - ROSC dopo arresto cardiaco in cardiomiopatia, inotropi in corso

## Valutazione finale teorica (MCQ)

## Valutazione finale pratica



**HOUSTON ABBIAMO  
UN PROBLEMA**



**HOUSTON...**



**ABBIAMO FINITO L'ALCOOL**

# NLS 2016



## Newborn Life Support Provider Course

### Programme - 4 Testing Stations

With suggested timings (based on 24 candidates in 4 groups of 6 and 4 testing stations)

08:00 Faculty Meeting and Registration

08:30 Introduction

08:50 Lecture: History and Physiology

09:20 Lecture: Resuscitation at Birth

09:50 Lecture: Preterm Babies

10:15 TEA / COFFEE BREAK + meet your mentors

10:50 Skill Stations (with continuous assessment)

Airway  
Resuscitator, Chest Compressions and Pulse Oximetry  
Vascular Access

	Airway 1	Airway 2	Resuscitator, Chest Compressions and Pulse Oximetry	Vascular Access
10:50 - 11:30	Group 1	Group 2	Group 3	Group 4
11:30 - 12:10	Group 2	Group 3	Group 4	Group 1
12:10 - 12:50	Group 3	Group 4	Group 1	Group 2
12:50 - 13:30	Group 4	Group 1	Group 2	Group 3

13:50 LUNCH BREAK

Faculty meeting or information sharing

13:30 Mentor / Mentor Feedback

13:45 Demonstration: Two demonstration simulations



## 14:15 Simulation Teaching:

### Simulation Rooms 1 - 4

	Simulation 1	Simulation 2	Simulation 3	Simulation 4
14:15 - 14:45 Simulations 1-3	Group 1	Group 2	Group 3	Group 4
14:45 - 15:15 Simulations 4-6	Group 2	Group 3	Group 4	Group 1
15:15 - 15:45 Simulations 7-9	Group 3	Group 4	Group 1	Group 2
15:45 - 16:15 Simulations 10-12	Group 4	Group 1	Group 2	Group 3

16:15

### TEA / COFFEE BREAK

### Faculty Meeting

16:30 Airway Test and MCQs  
16:30 - 17:10

4 stations x 10 minutes

MCQ  
16:30-17:00  
30 Minutes

	Station 1	Station 2	Station 3	Station 4	MCQ
16:30 - 16:40	Cand 1	Cand 2	Cand 3	Cand 4	Candidates
16:40 - 16:50	Cand 5	Cand 6	Cand 7	Cand 8	13-14
16:50 - 17:00	Cand 9	Cand 10	Cand 11	Cand 12	
17:00 - 17:10	Rest	Rest	Rest	Rest	

17:10

### Airway Test and MCQs

continued 17:00 - 17:30

4 stations x 10 minutes

MCQ  
17:10-17:40  
30 Minutes

	Station 1	Station 2	Station 3	Station 4	MCQ
17:10 - 17:20	Cand 13	Cand 14	Cand 15	Cand 16	Candidates
17:20 - 17:30	Cand 17	Cand 18	Cand 19	Cand 20	1-12
17:30 - 17:40	Cand 21	Cand 22	Cand 23	Cand 24	
17:40 - 17:50	Rest	Rest	Rest	Rest	

17:50

### Faculty Meeting

18:15

### Feedback / End of course





# NLS 2016



## Pre-course MCQ Paper

Use the answer sheet provided, following the instructions printed at the top.

1. A tracheal tube can be used as a suction catheter.
2. The Apgar score correlates well with the degree of fetal acidosis (i.e. as determined by the umbilical cord pH and base excess).
3. The baby should be weighed to ensure that doses of the drugs used in resuscitation are accurate.
4. Opening the airway in an apnoeic, unconscious newborn baby requires a positive pressure of up to 30 cm water (cm H<sub>2</sub>O).
5. Therapeutic hypothermia is of proven benefit in premature babies with signs of moderate to severe hypoxic ischaemic encephalopathy.
6. In the severely compromised baby requiring resuscitation, injudicious use of boluses of fluid can lead to impaired cardiac function.
7. Most babies in primary apnoea will eventually begin breathing without any intervention as long as they have a clear airway.
8. Resuscitation (i.e. ventilation and chest compressions) of newborn babies is a common event.
9. The 'assisted transition' and stabilisation of a premature baby follows a standard A, B, C approach.
10. The initial assessment of an apnoeic baby cannot predict the extent of resuscitation required.
11. An incorrectly sized oropharyngeal airway can, in itself, cause blockage of the airway.
12. Peripheral intravenous access is a safer and equally effective alternative to umbilical venous access.
13. All babies born through meconium stained liquor will have inhaled enough meconium for this to cause problems.
14. During sustained severe hypoxia, once the fetal heart rate falls to about 60 beats per minute, it is maintained at this rate for several minutes by anaerobic metabolism.



Newborn Life Support Course

## Post-course MCQ Paper

- You have 30 min to complete this paper.
- Do not refer to any materials or multi-media devices.
- Mobile phones and tablets must be turned off and not placed on the examination desk.
- Do not confer or communicate with other candidates.
- Silence must be maintained during the examination.
- Any queries regarding the question or answer sheets must be directed to the invigilator.

This paper must not be removed from the examination room.

April 2016



# Concludendo ...



# Grazie !

