SAFETY

simulation for medical practice

SIMULATION APPROACH FOR EDUCATION AND TRAINING IN EMERGENCY

# WP1(Task 1.1, 1.2, 1.4, 1.5) Proposal Action Plan for Deadline: February 1st 2021

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**DOCUMENT VERSION 01**

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**AUTHORS**

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Hospital Clinic from Barcelona
With collaboration of all the partners

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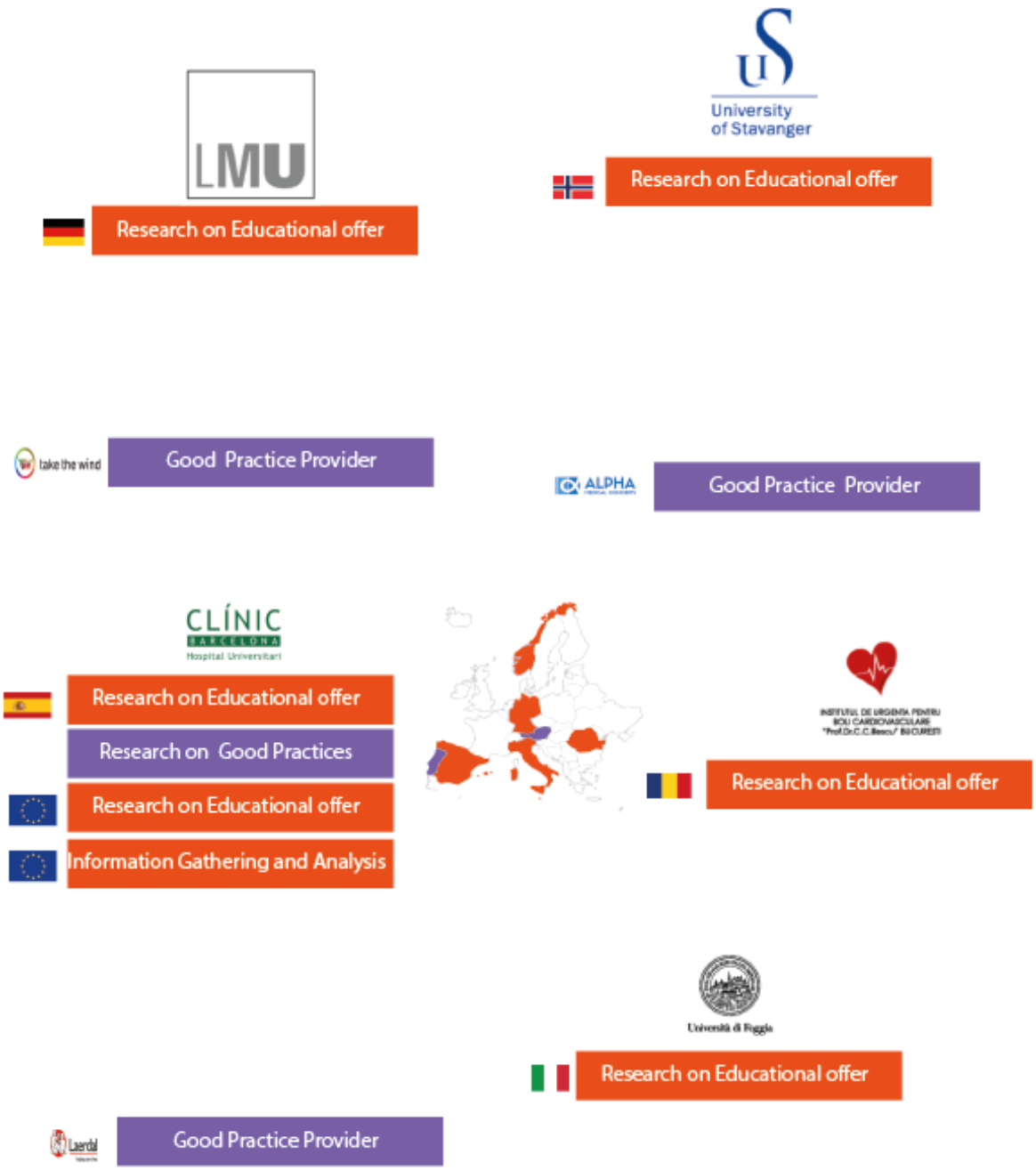
# Global View




Each Higher Educational Institution (HEI) partner will conduct a desk research on the **educational offer** in the emergency field in their country. Additionally, the Hospital Clínic (Barcelona, Spain) will include European Scientific Societies in their research.
The Hospital Clínic will also conduct a research on current **good practices** regarding simulation in the emergency field. Private company partners will provide their own good practices to the Hospital Clínic in order to complete this task.
Finally, the Hospital Clínic will gather, analyse and report the results.
***This is a pragmatic approach for these tasks. For further information regarding the project, please read the official detailed project description.***

# Research on Educational Offer

## Protocol for Data Collection

**Information** regarding the educational offer in the emergency field will be collected through a guide to data collection (annex 1).

1. Each HEI partner should use the data collection guideline as a guide to access the information from the internet if possible.
2. If that is not possible, HEI partners may use other information channels such as an electronic version of the survey, telephone, etc.
3. Regardless of the information channel, the guideline always needs to be used as the guide to standardise the data.
4. All questions from the guideline have an "information unavailable" or "other" answer option.
5. Each HEI partner may initially collect the information on paper but it must later be transferred to RedCap (access to the service will be available to partners on M4). The **final official way** to convey the information will be **RedCap**.

## Source of Information

For each country

- Those universities with medical and/or nursing school
- University Hospitals and/or tertiary hospital
- Emergency services
- National Scientific Societies
    - Anaesthesiology
    - Emergency Medicine
    - Intensive Care Medicine
    - Cardiology
    - Obstetric
    - Paediatrics
    - Simulation
    - Resuscitation Councill
    - Prehospital Medicine /Paramedicine
    - Midwifery
    - Nursing
- Simulation centres affiliated to National Simulation Society

For Hospital Clínic (Barcelona, Spain)

- Those above mentioned in the section "for each country"
- European Scientific Societies of
    - Anaesthesiology
    - Emergency Medicine
    - Intensive Care Medicine
    - Cardiology
    - Obstetric
    - Paediatrics
    - Simulation
    - Resuscitation Councill
    - Prehospital Medicine/ Paramedicine

- Midwifery
- Nursing

## Duties

Partner: **Hospital Clinic** (Spain)
Responsible Person: **Juan Perdomo** & colleagues
Tasks:

- Spanish Desk Research->Upload country's data into RedCap
- European Desk Research->Upload data into RedCap
- Analysis and results of all the data included by all the partners

Partner: **University of Stavanger** (Norway)
Responsible Person: **Camilla Normand** & colleagues
Tasks:

- Norwegian Desk Research->Upload country's data into RedCap

Partner: **University of Foggia** (Italy)
Responsible Person: **Roberta Caporusso** & colleagues
Tasks:

- Italian Desk Research->Upload country's data into RedCap

Partner: **The Emergency Institute of Cardiovascular Disease "Prof Dr CC Iliescu"** (Romany)
Responsible Person**: Mihai Stefan** & colleagues
Tasks:

- Romanian Desk Research->Upload country's data into RedCap

Partner: **LMU Munich** (Germany)
Responsible Person**: Katarina Grujic**
Tasks:

- German Desk Research-> Upload country's data into RedCap

## Mid-point Review

The Hospital Clinic will conduct a pilot research on the emergency educational offer in Catalonia. Then, the Hospital Clinic will provide a full report of this pilot research to all partners. Actions required to improve the research strategy will be taken based on this report.

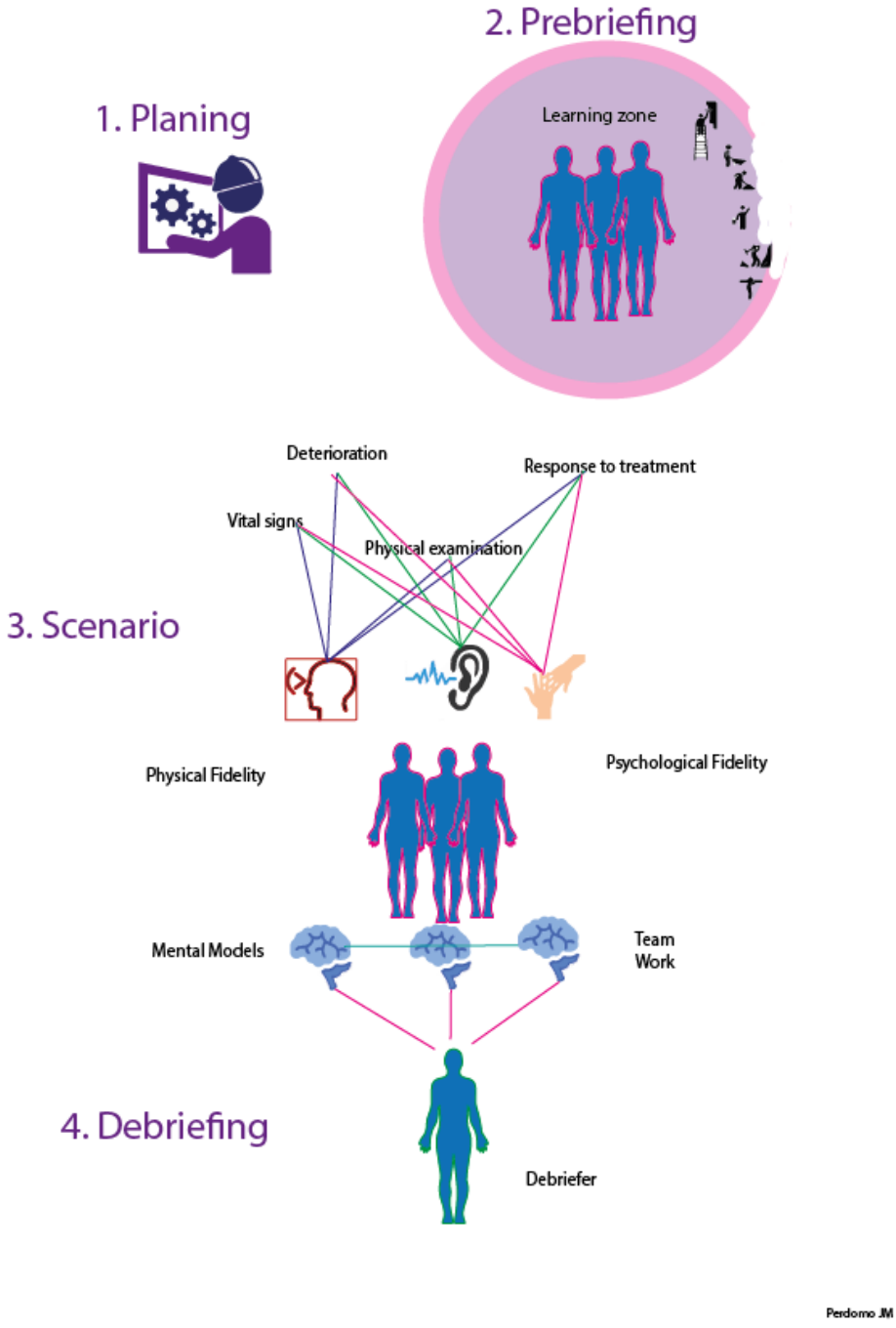
# Research on Good Practices

## Definition

According to the European Union, a **good practice** encompasses a process or a methodology that represents an effective way of achieving a specific objective, one that has been proven to work well and produce expected results, and it´s therefore recommended as a model or as a useful example.

## Model for Good Practice Collection

The Hospital Clínic will collect current good practices involved in the process of planning simulation scenarios, performing prebriefing, scenarios and debriefing.

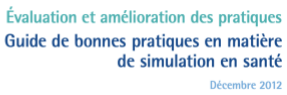


## Source of Information

-Good practices from Take the Wind, Alpha Medical Concepts and Laerdal

-Good practices from:





INACSL Standards of Best Practice: Simulation©

## Duties

Partner: **Hospital Clinic**

Responsible Person**: Juan Perdomo** & colleagues

Tasks:

- Desk Research on Good Practices
- Analysis and results

Partner: **Take the Wind**

Tasks: Good Practice provider

Partner: **Laerdal**

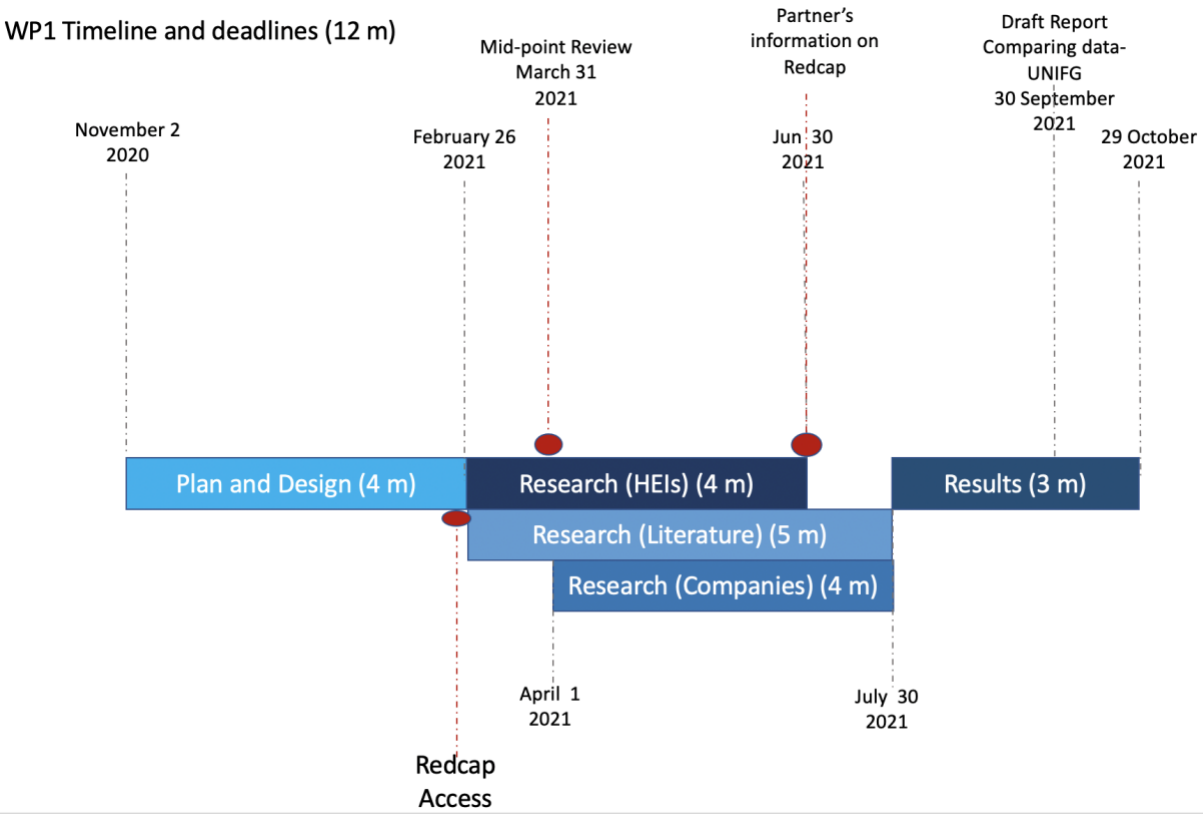
Tasks: Good Practice provider

Partner: **Alpha Medical Concepts**

Tasks:

Good Practice provider

# Deadlines


WP1 Timeline and deadlines (12 m)
November 2 2020
February 26 2021
Mid-point Review March 31 2021
Partner's information on Redcap
Jun 30 2021
Draft Report Comparing data- UNIFG 30 September 2021
29 October 2021
Plan and Design (4 m)
Research (HEIs) (4 m)
Results (3 m)
Research (Literature) (5 m)
Research (Companies) (4 m)
April 1 2021
July 30 2021
Redcap Access

# Annex 1-PROPOSAL GUIDELINE FOR DATA COLLECTION

## Initial Data

1) Name of the emergency course:
2) Offered by: _____(name)
   a. Public University
   b. Private University
   c. Private Hospital
   d. Public Hospital
   e. Emergency Service
   f. Scientific Society
   g. Private simulation centre / company
   h. Public simulation centre.
   i. Other_____

## Accessibility

3) Is the course promoted online? If yes, how? more than one option is possible
   a. Website
   b. Twitter
   c. Facebook
   d. Instagram
   e. Other
   f. No online advertisement

3.1 If online, is the syllabi available online?
   a. Yes
   b. No

3.2 If online, are the aims and objectives published?
   a. Yes
   b. No

4) How frequent is this course?
   A new course edition starts every...
   a. __Days
   b. __Weeks
   c. __Months
   d. __Year
   e. On demand
   f. Information unavailable

5) Course duration (Educational hours)
    a. __Hours
    b. Information unavailable

6) Course delivery
    a. Face to face
    b. Online
    c. Blended
    d. Information unavailable

7) Is there a maximum number of participants? (Capacity limitation).
    a. Yes
    b. No
    c. Information unavailable

8) Is there any admission requirement?
    a. Yes
    b. No
    c. Information unavailable
    d.

8.1 if yes, type of requirement (more than one option is possible)
    a. Previous clinical experience
    b. Previous courses
    c. Personal requirements (gender, age, nationality…. please specify_____)
    d. Other_____

9) What is the cost of the course?
    a. Free
    b. 500€ or less
    c. More than 500 € and less 1000 €
    d. 1000 € or more
    e. Information unavailable

## Syllabi Features

10) Content of this course
    _____% Theory _____% Practical or Information unavailable

11) Is this course...
    a. Mandatory if mandatory: -by institution -by law or national regulation - Information unavailable
    b. Optional
    c. Information unavailable

12) Main emergency topic _____ or information unavailable

13) Is this course accredited?
    a. Yes by_____
    b. No
    c. Information unavailable

14) Does this course have a final certification?
    a. Yes, National certification
    b. Yes, European certification
    c. No certification
    d. Other_____
    e. Information unavailable

15) Does this course have a final evaluation?
    a. Yes
    b. No
    c. Information unavailable

16) Does this course include simulation?
    a. Yes _____% of the course
    b. No
    c. Information unavailable

17) If simulation is used, which goals are meant to be achieved by the use of simulation?
    a. Acquisition of technical skills
    b. Acquisition of Non-Technical skills
    c. Both
    d. Information unavailable

17.1 If technical skills, please specify the goal (more than one option is possible)
    a. Diagnosis and treatment
    b. Related to CPR (Cardiopulmonary resuscitation)
    c. Related to trauma patient management
    d. Related to airway management
    e. Related to lines and catheter placement
    f. Related to chest tube insertion
    g. Related to emergency ultrasound diagnosis
    h. Related to vaginal/caesarean delivery
    i. Related to mechanical support devices
    j. Related to imaging interpretation
    k. Related to laboratory results interpretation
    l. Related to emergency advanced monitoring
    m. Clinical reasoning
    n. Other_____

17.2 If non-technical skills (NTS), please specify the goal (more than one option is possible)
    a. Related to leadership-followership
    b. Related to teamwork
    c. Related to situation awareness
    d. Related to decision making
    e. Stress management
    f. Related to team communication
    g. Related to team-patient communication
    h. Related to team-relatives communication
    i. Team building
    j. Other_____

17.3 If non-technical skills (NTS). Is there reference to any of the recognised NTS frameworks? (more than one option is possible)

a. No
b. Crisis Resource Management (CRM)
c. NOTECHS (Non-Technical Skills by Flin Et al)
d. ANTS (Anaesthetic's Non-technical Skills)
e. ANTS-AP (Anaesthetic's Non-technical Skills for Anaesthetic Practitioners)
f. NOTSS (Non-technical skills for Surgeons)
g. TeamSTEPPS (Teams Strategies and Tools to Enhance Performance and Patient Safety)
h. Other_____

17.4 Which simulation devices were use in this course? (more than one option is possible)

a. Phantom
b. Manikin
c. Simulated patient
d. Virtual patient
e. Hybrid models
f. Online simulator
g. Information unavailable

18) If simulation is not used, which goals are meant to be achieved?

a. Acquisition of technical skills
b. Acquisition non-technical skills
c. Both
d. Information unavailable

18.1 If technical skills, please specify the goal (more than one option is possible).

a. Diagnosis and treatment
b. Related to CPR (Cardiopulmonary resuscitation)
c. Related to trauma patient management
d. Related to airway management
e. Related to lines and catheter placement
f. Related to chest tube insertion
g. Related to emergency ultrasound diagnosis
h. Related to vaginal/caesarean delivery
i. Related to mechanical support devices
j. Related to imaging interpretation
k. Related to laboratory results interpretation
l. Clinical reasoning
m. Other_____

18.2 If non-technical skills, please specify the goal (more than one option is possible)

a. Related to leadership-Followership
b. Related to teamwork
c. Related to situation awareness
d. Related to decision making
e. Stress management
f. Related to team communication
g. Related to team-patient communication

h. Related to team-relatives communication
i. Other_____

18.3 If non-technical skills (NTS). Is there reference to any of the recognise NTS frameworks? (more than one option is possible)

a. No
b. Crisis Resource Management (CRM)
c. NOTECHS (Non-Technical Skills by Flin Et al)
d. ANTS (Anaesthetic's Non-technical Skills)
e. ANTS-AP (Anaesthetic's Non-technical Skills for Anaesthetic Practitioners)
f. NOTSS (Non-technical skills for Surgeons)
g. TeamSTEPPS (Teams Strategies and Tools to Enhance Performance and Patient Safety)
h. Other_____

## Target Group

19) This course is aimed at (more than one option is possible)

a. Undergraduate nurses
b. Undergraduate physicians
c. Medical resident
d. Midwife resident
e. Nurse
f. Midwife
g. Specialist physician
h. Paramedic
i. Other_____

## Covid-19 Impact

20) Has the pandemic had an impact on this course?

a. Yes
b. No
c. Information unavailable

20.1 If yes, what has been affected the most? (more than one option is possible)

a. Availability of trainers
b. Reduced trainees demand
c. Economical resources
d. Ways of delivering the course
e. Other_____

20.2 If yes, how has the course been coping with this impact? (more than one option is possible)

a. By reducing the frequency of the course
b. By reducing the number of admitted students
c. By increasing the use of virtual and online resources
d. The course is no longer available due to the pandemic
e. Other_____