

SUPPLEMENTARY MATERIAL S1

| Supplementary material S1. List of Italian universities providing Bachelor's degree in Nursing. | |
|--------------------------------------------------------------------------------------------------------|----------------|
| University | Region |
| University Aldo Moro | Puglia |
| University of Bologna | Emilia Romagna |
| University of Brescia | Lombardy |
| University of Cagliari | Sardinia |
| University of Catania | Sicily |
| University Magna Graecia of Catanzaro | Calabria |
| University Gabriele D'Annunzio Chieti-Pescara | Abruzzo |
| University of Ferrara | Emilia Romagna |
| University of Firenze | Tuscany |
| University of Foggia | Puglia |
| University of Genova | Liguria |
| University Insubria of Varese-Como | Lombardy |
| University of Aquila | Abruzzo |
| University of Messina | Sicily |
| University of Milano | Lombardy |
| University of Milano-Bicocca | Lombardy |
| University Sacro Cuore of Milano | Lombardy |
| University Humanitas | Lombardy |
| University San Raffaele-Milano | Lombardy |
| University of Modena and Reggio Emilia | Emilia Romagna |
| University of Molise | Molise |
| University Federico II-Napoli | Campania |
| University Luigi Vanvitelli | Campania |
| University of Padova | Veneto |
| University of Palermo | Sicily |
| University of Parma | Emilia Romagna |
| University of Pavia | Lombardy |
| University of Perugia | Umbria |
| University of Piemonte orientale, "Amedeo Avogadro"-Vercelli | Piedmont |
| University of Pisa | Tuscany |
| University Politecnica of Marche | Marche |
| University La Sapienza-Rome | Lazio |
| University Tor Vergata-Rome | Lazio |
| University Campus Biomedico-Roma | Lazio |
| University Unicamillus - Saint Camillus International University of Health Sciences | Lazio |

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|-----------------------|-----------------------|
| University of Salerno | Campania |
| University of Sassari | Sardinia |
| University of Siena | Tuscany |
| University of Torino | Piedmont |
| University of Trieste | Friuli-Venezia-Giulia |
| University of Udine | Friuli-Venezia-Giulia |
| University of Verona | Veneto |
| Total | 42 |

SUPPLEMENTARY MATERIAL S2

| Supplementary material S2. List of Italian universities providing master's degree in nursing and midwifery sciences | |
|----------------------------------------------------------------------------------------------------------------------------|----------------|
| University | Region |
| University Aldo Moro | Puglia |
| University of Bologna | Emilia Romagna |
| University of Brescia | Lombardy |
| University of Catania | Sicily |
| University Magna Graecia of Catanzaro | Calabria |
| University Gabriele D'Annunzio Chieti-Pescara | Abruzzo |
| University of Ferrara | Emilia Romagna |
| University of Firenze | Tuscany |
| University of Genova | Liguria |
| University of Aquila | Abruzzo |
| University of Messina | Sicily |
| University of Milano | Lombardy |
| University of Milano-Bicocca | Lombardy |
| University Sacro Cuore of Milano | Lombardy |
| University Humanitas | Lombardy |
| University San Raffaele-Milano | Lombardy |
| University of Modena and Reggio Emilia | Emilia Romagna |
| University of Molise | Molise |
| University Federico II-Napoli | Campania |
| University Luigi Vanvitelli | Campania |
| University of Padova | Veneto |
| University of Palermo | Sicily |
| University of Parma | Emilia Romagna |
| University of Pavia | Lombardy |
| University of Perugia | Umbria |
| University of Piemonte orientale, "Amedeo Avogadro"-Vercelli | Piedmont |

| | |
|----------------------------------|-----------------------|
| University of Pisa | Tuscany |
| University Politecnica of Marche | Marche |
| University La Sapienza-Rome | Lazio |
| University Tor Vergata-Rome | Lazio |
| University of Siena | Tuscany |
| University of Torino | Piedmont |
| University of Trieste | Friuli-Venezia-Giulia |
| University of Verona | Veneto |
| Total | 34 |

SUPPLEMENTARY MATERIAL S3

| Supplementary material S3. List of Italian universities providing Master's degree in Wound Care | | | |
|--------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------|--------------------------------------------------------------------|
| University | Region | Name | University department |
| University of Catania | Sicily | Wound care and diabetic foot | Department of General Surgery and Medical Surgical Specialties |
| University Magna Graecia of Catanzaro | Calabria | Wound care and management of skin injuries | Department of Medical and Surgical Sciences |
| University of Pavia | Lombardy | Nurse specialist in wound care- V edition | Department of Clinical Surgical, Diagnostic and Pediatric Sciences |
| University of Torino | Piedmont | Wound care | Department of Medical Sciences |
| Total | | | 4 |

SUPPLEMENTARY MATERIAL S4

QUESTIONNAIRE

A. PERSONAL INFORMATION SECTION

FAMILY NAME

FIRST NAME

GENDER (M/F)

AGE:

EDUCATIONAL QUALIFICATION:

Bachelor's degree in Nursing

Master's degree in Nursing and Midwifery Sciences

Postgraduate diploma in Wound Care

Other postgraduate diploma

CURRENT WORK

Ward nurse

Home nurse

Private nurse

Other

B. EDUCATIONAL WOUND CARE AREA

How many hours of training did you receive in the wound care area during your university training courses?

- A. 0*
- B. 1-8*
- C. 9-24*
- D. 24-48*
- E. > 48*

C. COMPETENCE AREA IN WOUND CARE

1. ANATOMY AND PHYSIOLOGY AREA

1.1 - Your level of knowledge in anatomy and physiology of skin and tissues is adequate

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

*1.2 - Your level of knowledge about symptoms and findings of peripheral artery disease is adequate
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*1.3 - Your level of knowledge about symptoms and findings of venous insufficiency of lower limbs is adequate
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*1.4 - Your level of knowledge about factors that regulate wound healing is adequate
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*1.5 - Your level of knowledge about factors that affect wound healing is adequate
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*1.6 - Your level of knowledge about wound healing phases is adequate
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*1.7 - Your level of knowledge about factors that expose the wound to becoming chronic is adequate
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

2. CARE OF CHRONIC AND ACUTE WOUNDS

*2.1 - I can assess a surgical wound by means of sterile and clean techniques
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*2.2 - I can assess the most common complication of a surgical wound
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*2.3 - I can care and remove wound drains
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*2.4 - I can remove sutures / staples
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*2.5 I can care recipient site in skin transplantation
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*2.6 I can care donor site in skin transplantation
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*2.7 I can provide first aid in traumatic wounds
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*2.8 I can assess and care traumatic wounds
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

*2.9 I can provide first aid in burn injuries
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree*

2.10 I can assess (degree and size) and care burn injuries
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.11 I can provide first aid in frostbite
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.12 I can assess (degree and size) and care in frostbite
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.13 I can assess oedema
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.14 I can correctly apply compression therapy
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.15 I can assess arterial circulation
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.16 I can assess and examine diabetic foot
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.17 I am skilled in principles of offloading in the management of diabetic foot
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.18 I can assess risk factors for pressure ulcer/injury
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.19 I am skilled in pressure and friction relief in pressure ulcer/injury
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.20 I am skilled in skin care and protection in pressure ulcer/injury
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.21 I can assess risk factors for skin tears
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.22 I am skilled in skin care and protection in skin tears
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

2.23 – I can assess atypical wounds
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree

3. WOUND MANAGEMENT AND CARE OF A PATIENT WITH A WOUND

3.1 – I know the principles of working aseptically in wound management (procedure preparation, correct use of personal protective equipment, aseptic working and related order)

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

3.2 I know the principles of assessing and care of an open wound and I can assess the wound bed (colour and tissue types, environment for wound healing, evaluation of the skin surrounding the wound)

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

3.3 I know the principles of assessment and care of an infected wound (signs and classification of an infection, bacterial sample, care of an infected wound)

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

3.4 I know and I can use different wound debridement methods, products, and instruments

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

3.5 I know and I can use different wound care products and their functions, and can use products of each group correctly

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

3.6 I understand the importance of nutrition in wound prevention and healing and can assess patient's nutrition status.

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

3.7 I can assess and manage wound related pain

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

3.8 I can document the description and management of the wound and make a care plan

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

3.9 I can educate and motivate the patient with a wound (informing the patient and next of kin and stimulate self-care)

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

4. VALUES AND ATTITUDES

4.1 I understand the importance of multi-professional working and consultations when caring for a patient with a wound.

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

4.2 I understand the meaning of holistic and patient-centered care when caring for a patient with a wound.

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

4.3 I understand the importance to respect patient's privacy and autonomy in wound care

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

4.4 I understand the importance to act professionally when caring for wounds

strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.

4.5 I understand the importance of economic perspectives of care from the patient's and society's point of view and I am fully aware of wound care costs.
strongly disagree [1], [2], [3], [4], [5], [6], [7] strongly agree.