

## METABOLIC DEMANDS OF THE NEWBORN

### LEARNING OUTCOMES

NEWBORNS HAVE SPECIAL METABOLIC DEMANDS, BECAUSE THEIR METABOLISM IS IMMATURE AND SENSITIVE. THE NURSE WILL GET TO KNOW THE CALORIC NEEDS OF A NEONATE, THE GLUCOSE AND TEMPERATURE REGULATION AND SOME METABOLIC DISORDERS. THE NURSES WILL ALSO LEARN THE METABOLIC SCREENING FOR DISEASES, WHICH IS PERFORMED IN EVERY NICU AND THE BILIRUBIN METABOLISM, WHICH IS USUALLY DISTURBED IN THE FIRST DAYS OF LIFE

### ECTS CREDITS

2 ECTS

| <i>Theoretical courses</i>            | <i>Teaching Methodology</i>   | <i>Number of hours</i> |
|---------------------------------------|---|------------------------|
| Calories                              | <i>Lectures, Independent Study, Problem-based Learning, E-learning, Online platform</i> | 1                      |
| Hypoglycemia                          | <i>Lectures, Independent Study, Problem-based Learning, E-learning, Online platform</i> | 1                      |
| Hyperglycemia                         | <i>Lectures, Independent Study, Problem-based Learning, E-learning, Online platform</i> | 1                      |
| Temperature regulation                | <i>Lectures, Independent Study, Problem-based Learning, E-learning, Online platform</i> | 1                      |
| Metabolic disorders                   | <i>Lectures, Independent Study, Problem-based Learning, E-learning, Online platform</i> | 1                      |
| Metabolic screening                   | <i>Lectures, Independent Study, Problem-based Learning, E-learning, Online platform</i> | 1                      |
| Metabolism of bilirubin and disorders | <i>Lectures, Independent Study, Problem-based Learning, E-learning, Online platform</i> | 1                      |

| <i>Practical activities</i> | <i>Teaching Methodology</i> | <i>Number of hours</i> |
|-----------------------------|-----------------------------|------------------------|
|                             |                             |                        |



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|--|---|---|
| Implementing knowledge on case scenarios and in NICU | <i>Laboratory and Practical Study, Virtual laboratory</i> | 3 |
|--|---|---|

| <b>Evaluation</b>   |  |
|---|--|
| <i>Course activities – percent of the final grade - 40%</i> | <i>Practical activities – percent of the final grade - 60%</i> |
| <i>Final mark</i>   |  |

| <b>Training Methods</b>   |
|---|
| <ul style="list-style-type: none"> <li>- <i>Lectures</i></li> <li>- <i>Independent Study</i></li> <li>- <i>Laboratory and Practical Study</i></li> <li>- <i>Problem-based Learning</i></li> </ul> |
| <b>Innovative Digital Training Methods</b>  |
| <ul style="list-style-type: none"> <li>- <i>Virtual laboratory</i></li> <li>- <i>Online platform</i></li> <li>- <i>E-learning</i></li> </ul>  |

