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PROFESSIONSHØJSKOLEN

METROPOL

Semester description for Bachelor's Degree Programme of Nursing



Semester 6

Nursing – complex clinical practice



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Semester description for the Bachelor's Degree Programme of Nursing

Semester 6

2016 Curriculum

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Semester description

1. The overall theme of Semester 6: Nursing – complex clinical practice

The theme is focused on independent clinical decision-making and clinical management in stable, acute and complex care and treatment pathways in interaction with the patient/citizen and their relatives within and across sectors.

The focus is also on achieving competences to critically reflect on nursing situations by weighing interests within and across sectors, and with integration of the knowledge of the patient/citizen, experience-based knowledge and research-based knowledge¹.

2. Focus areas in clinical training

The focus areas for Semester 6 are based on the learning outcome concerning knowledge, skills and competences for Semester 6 in the curriculum (Appendix 1). The focus areas to be achieved at the end of Semester 6 are:

1. To be able to independently perform, communicate and lead from clinical decision-making² in complex contexts in interaction with citizens/patients and relatives. Can independently integrate different knowledge forms³, and in and across sectors
2. Can independently reflect critically on and handle clinical management⁴ of patient/citizen pathways and of nursing and treatment pathways in interaction with patients/citizens, relatives and other healthcare professionals
3. Be able to handle dilemmas and play an ethical, empathetic and reflective role in nursing situations characterised by different cultural, professional, political, economic and social perspectives, and also intervene within the frameworks of current legislation
4. Can independently reflect critically on and apply clinical knowledge of illnesses and medicine handling for use and assessment in clinical decision-making in nursing and treatment pathways in complex patient/citizen pathways, and be able to prescribe medicine within framework delegation⁵

¹ The semester description is based on Ministerial Order no. 804 of 17/06/2016 Bachelor's Degree Programme of Nursing and curriculum 2016 Bachelor's Degree Programme of Nursing, Metropolitan University College and UC Diakonissestiftelsen.

² Clinical decision-making: The nurse's professional decisions and actions to be taken on the basis of identified current patient-related and potential nursing problems (Dansk Sygeplejeselskab and Danish Nurses Organization, 2012. *Dokumentation af Sygepleje. En Statusrapport* (Documentation of Nursing, a Status Report), http://dasys.dk/media/5295/dokumentation_af_sygepleje_statusrapport_sep_2012.pdf).

³ Knowledge forms: patient/citizen knowledge, experience-based knowledge and research-based knowledge - see Appendix 1: Learning outcome for Semester 6

⁴ Clinical management: Can independently gain an overview of the nursing situation and plan care in the most appropriate sequence, in stable and complex patient pathways (Haase, K, Barbesgaard, H., Suhr, L., Hjortsø, M., Andersen, J.F., 2016. Nye begreber i sygeplejerskeuddannelsen (New concepts in the Bachelor's Degree Programme of Nursing). I: *Uddannelsesnyt. Fagligt selskab for undervisende sygeplejersker* (Education News. Professional association for teaching nurses). no. 3, pp. 11-16.

⁵ The basis for framework delegation is: Danish Ministry of Health, 2015. *Vejledning om ordination og håndtering af lægemidler om benyttelse af medhjælp* (Guidance concerning the prescription and handling of pharmaceuticals concerning the use of assistance) (section 2.) GUIDE no. 9079 of 12/02/2015.

5. Can critically reflect on and assume responsibility for the use and applicability of clinical methods, technologies, innovation⁶, forms of documentation, quality assurance and quality development, which support patient/citizen-experienced correlations in an overall healthcare system
6. Can take a critically reflective approach to own activities and develop own competences
7. Can independently use and assess technology, documentation and quality assurance in the planning, performance and development of nursing and treatment pathways within and across professions and sectors
8. Be able to use and assess research- and development-based knowledge⁷ and results concerning complex clinical activity, and take a clinically investigative approach to knowledge-based practice⁸ in relation to clinical nursing problems

3. The semester's structure and framework for clinical training

Semester 6 consists of a clinical training course corresponding to 30 ECTS credits. The course includes four study interviews, an individual study plan, three compulsory study activities and an internal clinical exam.

3.1 The semester's ECTS credits breakdown

Metropolitan Teaching areas	Clinical ECTS	UC Diakonissestiftelsen Subject areas	Clinical ECTS
Nursing - Clinical knowledge of disease and patient/citizen pathways	18	Health Sciences	21
Nursing - Research, methodology and theory of science	1	Natural Sciences	3
Nursing - Person-centred care/patient/citizen involvement	5	Humanities	3
Overall healthcare system	2	Social Sciences	3
Technology, documentation, quality development and quality assurance	4		

⁶ Innovation: "refers to the efforts to develop an already invented element for practical use and gain acceptance of the introduction of the element. Innovations may be new products, new production processes, new market behaviour, new raw materials or semi-manufactures or new forms of organisation" (Dalkjær, D and Fredskild T.U., 2017. Innovation i Sundhedsvæsenet (Innovation in the Healthcare System) I: T. U. Fredskild, D. Dalkjær and H. Langberg, ed., *Innovation i Sundhedsvæsenet*. Gads Forlag, p. 25).

⁷ The minimum requirement for the search for research and development-based knowledge is searching in CINAHL, PubMed and the National Centre for Clinical Guidelines

⁸ Knowledge-based practice: Entails that different knowledge sources are used in practice, such as patient/citizen knowledge, experience-based knowledge, and research- and development-based knowledge, as the basis for improving clinical practice

3.2 Structure

Week	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Clinical period	Study interviews and individual study plan																		An internal clinical exam can be held within this period		
	Compulsory study activity: Interdisciplinary and inter-sectoral patient/citizen pathway and the overall healthcare system (OSA 1)																				
	Compulsory study activity: Interprofessional communication and cooperation (OSA 2)																				
	Compulsory study activity: The medication process (OSA 3)																				

3.3 Frameworks for clinical training

The clinical training is based on the overall theme for Semester 6.

You will attend planned and targeted teaching and supervision courses with authentic patient and citizen pathways and nursing situations, in order to achieve clinical skills and competence related to the focus areas for Semester 6.

The clinical training is compulsory. You must attend at least 30 hours a week on average in order to complete the clinical training and to commence the semester exam. The overall compulsory participation is for 600 hours in Semester 6.

The clinical training sites expect you to have a high degree of participation activity and to contribute to a stimulating learning environment. Your commitment, preparation and attendance of teaching and supervision are of vital importance for the quality of your learning.

3.3.1 Introduction period

The following must be reviewed at the start of the introduction period with the clinical instructor/supervisor:

- General framework and terms for the semester's clinical training, including the compulsory study activities (OSA)
- Framework, terms and learning opportunities at the clinical training site
- The individual clinical training site is obliged to give an introduction to relevant laws, local guidelines and procedures of significance to the individual clinic, including duty of confidentiality, uniform regulations and hygiene principles, etc.
- See also the [Framework and requirements](#) for the distribution of responsibility between you as a student and the clinical instructor/supervisor.

3.3.2 Study interviews and individual study plan

During Semester 6, four planned study interviews are held.

The study interviews take place in collaboration between you and the clinical supervisor. The study interviews may take place individually or in groups. As a student, you must prepare for this interview and have uploaded the relevant documents to the Practice Portal. See [frameworks and requirements](#) for which documents this concerns.

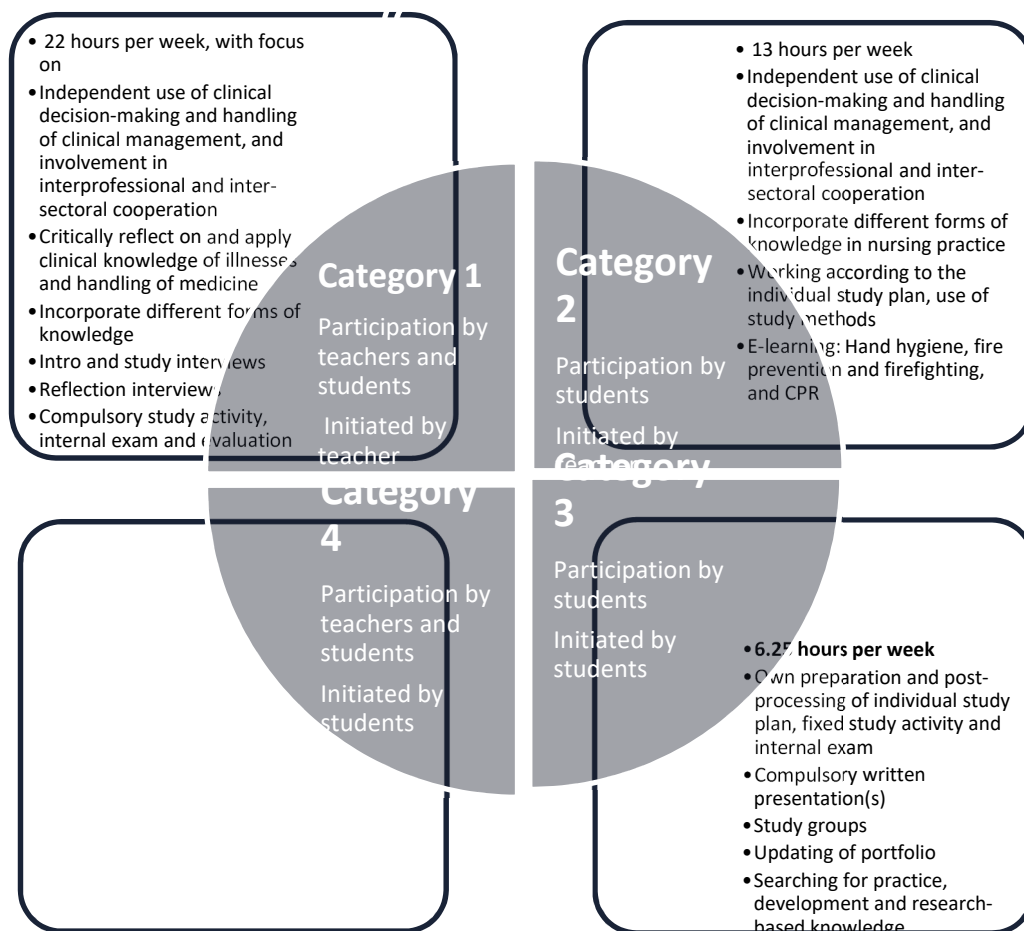
The first study interview is held within the first two weeks, after which an individual study plan is drawn up, which must be uploaded to the Practice Portal no later than two working days after the study interview.

3.3.3 The study-activity model

The study-activity model is a study tool for planning and organising study activity amounting to 41.25 hours.

The 30 hours of compulsory participation in clinical training fall into categories 1 and 2. The remaining hours may be used according to the clinical training site's recommendations, e.g. for planned literature studies, participation in development projects, study visits, compulsory written presentations, own preparation, own reflection groups, etc. In Semester 6, the 11.25 hours are distributed as 5 hours in category 2 and 6.25 hours in category 3.

The study activity model can be included in the dialogue between you as a student and the clinical instructor/supervisor, in order to support the collaboration on the organisation of the clinical course for the semester and contribute to aligning expectations of the initiatives required in order to achieve sufficient knowledge of semesters' clinical focus areas.



3.4 Practice Portal

As an active element of clinical training, written material that forms the basis for the planning and performance of clinical training must be uploaded to the Practice Portal.

Written material to be approved, such as individual study plan and documentation sheet from the logbook in medicine handling, must be uploaded to the relevant submission folder on the list, while other written material, such as presentations for reflection interviews, descriptions of practice, logbook in medicine handling, and other material which forms the

basis for learning and dialogue with the clinical supervisor, must be uploaded under “documents”.

By uploading all forms of written material to the Practice Portal, you will be able to gather material from clinical training throughout the programme, from semester to semester.

3.5 Literature list

You are responsible for preparing a literature list which reflects the respective teaching areas/subject areas in clinical training in Semester 6. The selection of literature is based on what is relevant for the clinical training site in question. The selected literature must be based on research and development-based knowledge. The literature requirement is 30 pages per ECTS point (900 pages) and the literature list must be uploaded to the Practice Portal for approval by the clinical instructor/supervisor at the end of the semester.

4. Compulsory study activities

The purpose of the compulsory study activities is to give the opportunity to focus on some special problems selected in relation to the semester’s theme. The compulsory study activities must be completed and approved before you can begin the internal clinical exam in Semester 6.

Semester 6 includes three compulsory study activities (OSA):

- OSA 1: Interdisciplinary and inter-sectoral patient/citizen pathway in the overall healthcare system
- OSA 2: Interprofessional communication and cooperation
- OSA 3: The medication process
- The three compulsory study activities can take place concurrently and in random order.

4.1 OSA 1: Interdisciplinary and inter-sectoral patient/citizen pathway in the overall healthcare system⁹

The purpose of this study activity is for you to identify, analyse and critically relate on a reflective and innovative basis to clinical nursing problems that arise in interdisciplinary/inter-sectoral patient and citizen pathways in the overall healthcare system.

4.1.1 Framework for OSA 1

In this study activity, during a four-week period there must be focus on clinical nursing issues in interdisciplinary/inter-sectoral patient/citizen pathways. The study activity may take place in different ways depending on what is relevant at the clinical training site where you take most of your course in Semester 6.

As a minimum, two clinical training sites must be included in the activity¹⁰, and there may be several patient and/or citizen pathways involved. These courses share in common that they must be centred on the purpose of the study activity. The clinical training site is responsible for setting the framework for the interdisciplinary/inter-sectoral course.

During the four-week period, preparatory tasks¹¹ may be involved within the focus area, which relate to the element of the study activity which takes place at other clinical training sites. Teaching venues that do not have Semester 6 students may be involved in the study activity.

⁹ The overall healthcare system: Region, municipalities and general practitioners

¹⁰ The clinical training sites must be documented in your individual study plan due to insurance <https://www.kurh.dk/retningslinjer>

¹¹ For instance, investigate documentation forms across sectors, legislation, interdisciplinary and inter-sectoral initiatives

The study activity may be completed individually or in groups of two to three students. Groups may be set up within sections or across clinical training sites and sectors. A condition for completing the activity in groups is that both you and your fellow students, and the clinical instructors/supervisors, agree on who is to be the supervisor, and where the activity is to be presented.

4.1.2 Organisation of OSA 1

Within the first four to six weeks of your clinical period you must identify different interdisciplinary or inter-sectoral clinical nursing problems in patient- and citizen pathways. In collaboration with the clinical supervisor, you will select a clinical nursing problem that you will continue to work on during this compulsory study activity.

The clinical teacher/supervisor is responsible for entering into agreements concerning the interdisciplinary/inter-sectoral approaches with you and other collaboration partners, and also following up on progress.

You have the opportunity for one lesson of supervision if you choose to work individually. For groups (irrespective of size), two lessons for supervision are granted.

Introduction to OSA 1 can take place in groups.

4.1.3 Written presentation

The selected clinical nursing problem must be illuminated/motivated on the basis of the current context, with shifts in perspective between the patient/citizen's perspective, the organisational perspective, and an economic and societal perspective, with the involvement of current legislation, and on the basis of national and international research and development-based knowledge.

The written presentation must include:

- Description of the clinical nursing problem
- Reflections on the relevance of the selected clinical nursing problem area, with focus on shifts in perspective
- The basis for the selected method(s) of data collection for the identification of the clinical nursing problem
- Analysis of the selected problem
- A literature list, based on systematic search in relation to development and research-based knowledge, including relevant nursing standards, clinical guidelines and guides, trial programmes, etc.

The written presentation must have maximum 9600 characters, including spaces, for one student, and 12000 characters, including spaces, for groups.

The presentation must be prepared in accordance with the Technical guidelines for writing assignments and the Legal guidelines for the collection of patient data for use in assignments and projects.

Two working days before the presentation, by no later than 12 p.m., the written presentation must be uploaded to the Practice Portal.

4.1.4 Professional debate forum

You are responsible for planning, inviting and holding a small debate forum attended by the clinical trainer, clinical supervisor, relevant professionals from the interdisciplinary/inter-sectoral areas, and your fellow students.

- The time schedule is from ½ hour to 1 hour for one student, and maximum 1½ hours for groups.
- The debate forum must include:
- A brief presentation of the clinical nursing problem
- Critical investigation of the selected problem viewed from the different perspectives, and with the involvement of current national/international research- and development-based knowledge

- A professional discussion in which you are responsible for facilitating the debate and collecting points and proposals for the development of practice
- A summary of how the outcome of the compulsory study activity will in future be included in your clinical decision-making and your clinical management

Subsequently, a brief written summary of maximum 2,400 characters must be prepared of the points and proposals for innovative solutions. The written summary must be included as an appendix to the internal exam.

When the study activity has been carried out and approved, the clinical teacher/supervisor may approve the activity on the Practice Portal.

At subsequent study interviews you will receive oral feedback and feedforward on the study activity.

4.2 OSA 2: Interprofessional communication and cooperation

The study activity is planned and offered across the Capital Region's clinical training sites, with the participation of student nurses in Semester 6 and medical students in Semester 9.

The planned study activity consists of one day of compulsory training, during which you are trained in interprofessional communication and cooperation. The teaching and training focus on the professions' core competences and on interdisciplinary collaboration.

You are responsible for registering on the Capital Region's website under the course portal. Registration will be possible as from 6th. February 2018 <https://kursusportalen.plan2learn.dk/KursusValg.aspx?id=21415>.

Documentation of participation must be uploaded to the Practice Portal and approved by the clinical teacher/supervisor.

4.3 OSA 3: The medication process¹²

The study activity is based on "Guidelines for student nurses' participation in medicine dispensing and administration" (Appendix 2) and is directed at the entire medication process, with focus on your achieving the necessary independence within the area of responsibility of medicine handling¹³.

Achievement of the compulsory study activity, which comprises 5 stages, is the basis for your continued focus and achievement of the required independence within the area of responsibility of medicine handling. Teaching and supervision must support your work with the development of knowledge, skills and competences within the entire medicine handling area.

Step 1: Competence assessment

At the preliminary study interview with the clinical instructor/supervisor, your circumstances and experience from medicine handling gained during the programme's previous semesters will be reviewed. The basis for the interview is "*Logbog i medicinhandling for sygeplejestuderende i Region Hovedstaden*" (Logbook for medicine handling for student nurses in the Capital Region). The document can be found under relevant clinical documents on the Practice Portal and at www.kurh.dk under Guidelines: [Logbook in medicine handling](#)

Step 2: Health technology skills

The clinical supervisor is responsible for ensuring you formalised instruction and training in the clinical training site's electronic information, registration and documentation systems within medicine handling.

It is recommended that teaching is scheduled for weeks 1-2 of the semester.

¹² The medication process concerns medicine prescription, dispensing, medicine administration, self-administration and medicine documentation.

¹³ Medicine handling: All procedures performed with medicine, after it has been dispensed by the pharmacy, with or without medical prescription.

Step 3: Introduction to and induction into the nurse's functions in relation to medicine handling

It is recommended that this step is scheduled for weeks 2-4 of the semester.

In this step, you and the clinical instructor/supervisor will cooperate on medicine handling for a selected patient/citizen group. The selection criteria should reflect the scope and complexity of the nurse's duties in relation to medicine handling at the individual training site.

During the period you will take a targeted approach to using your pharmacological and clinical knowledge, including observation and assessment of the relevant patients'/citizens' illness, symptoms and overall situation.

Information, guidance, teaching and communication with patients/citizens and their relatives are important elements of nursing care.

It will be relevant to involve the following focus:

- Involvement of applicable procedures, clinical guidelines and medicine guidelines
- Sector transitions, including official healthcare agreements
- Review of medicine storage – clinical nursing conduct, working environment, hygiene, rules and legislation, etc.
- The most commonly used drugs, including applied methods of administration
- An introduction is given with reference to applicable rules and procedures for the most commonly used IV catheters, with associated nursing interventions
- An introduction is given to the most commonly used IV preparations, including special precautions concerning mixing procedures and administration
- Where relevant, an introduction to fluid therapy is included, with consideration of risks, solvency, etc. in connection with the administration of medicine

The documentation of medicine handling for the selected patients/citizens in the clinical pathway must be uploaded to the Practice Portal under the study activity: medication process.

Step 4 Observation and development of competences

In the subsequent period, approximately weeks 4-12, the focus is on the development of your independence, with increased complexity within medicine handling throughout the medication process. You will cooperate with the clinical instructor/supervisor on medicine handling for a selected patient/citizen group of varying complexity in terms of medical treatment.

As a minimum, you will work with three patient/citizen pathways, and consider three new preparations in depth for each patient/citizen pathway.

The documentation of medicine handling for the selected patients/citizens in the clinical pathway must be uploaded to the Practice Portal under the study activity: medication process.

Step 5: Conclusion of the medicine handling situation and feedback

In week 12 of the clinical training period, in collaboration with the clinical trainer/supervisor, you will select one or several patients/citizens with varying medication complexity, where you will show that you master medicine handling in accordance with current legislation, guidelines and guides. You must:

- Account for the pharmacology and connect your pharmacological knowledge to your own patients'/citizens' physiology/pathophysiology
- Account for the effects/adverse effects/interactions and contra-indications of the medical preparations used

- Account for the content of the relevant legal guidelines¹⁴
- Account for the correct way to dispense, store and handle medicines, including special precautions concerning high-risk preparations
- Find information about the preparations' effects and adverse effects, as well as any mixing procedures
- Account for own area of responsibility as a student nurse with regard to medicine handling
- Account for pedagogical considerations in relation to the patients/citizens selected on the day and administration of their medicine, on the basis of practice, research and empirical knowledge
- Relate critically to the overall medication
- Dispense, handle and administer various types of medicine using methods of administration that are relevant for the clinical training site
- Document relevant information in connection with medicine administration, using clear medical terminology, in the clinical training site's electronic documentation and registration system
- Inform, guide, teach and communicate with patients/citizens and any relatives in relation to medical preparations
- Cooperate with the patient/citizen and any relatives concerning administration of medicine
- Act in an ethically responsible manner, taking due account of the individual patient/citizen
- Take action in the event of medication errors and demonstrate an understanding of the procedure for this
- Take action in the event of prescriptions which exceed the recommended dose, if there are warning or contra-indications, and be aware of the action that can be taken

The documentation of medicine handling for the selected patients/citizens in the clinical pathway must be uploaded to the Practice Portal under the study activity: medication process.

The study activity is concluded with a clinical discussion between you and the clinical instructor/supervisor in which you reflect on the process in relation to the competence requirements described.

The study activity is approved by the clinical instructor/supervisor on the Practice Portal, and is a precondition for taking the internal exam.

5. Internal exam

At the end of Semester 6 an individual internal clinical exam is held, in which you will be tested in the semester's focus areas for clinical training. The exam has two examiners – a clinical instructor/supervisor and an instructor from the educational institution. The exam is graded according to the seven-point grading scale.

5.1 Conditions and requirements

The exam is held within the last three weeks of the clinical period, and a requirement for commencing the internal clinical exam is that you:

¹⁴ Danish Ministry of Health 2016. *The Authorisation Act*. Consolidated Act no. 1356 of 23/10/2016.

<https://www.retsinformation.dk/Forms/r0710.aspx?id=183809>

Danish Ministry of Health 2015. *Lægemiddelhåndterings vejledningen* (Guide to Medicine Handling). Guide no. 9079 of 12/02/2015. <https://www.retsinformation.dk/Forms/R0710.aspx?id=168156%20%20%20>

Danish Ministry of Health 2013. *Identifikationsvejledning* (Identification Guide). Guide no. 9808 of 13/12/2013. <https://www.retsinformation.dk/Forms/R0710.aspx?id=160895>

Danish Ministry of Health 2013. *Vejledning om sygeplejefaglige optegnelser* (Guide Concerning Nursing Records). Guide no. 9019 of 15/01/2013. <https://www.retsinformation.dk/Forms/R0710.aspx?id=144979>

- Have completed and achieved approval of the three compulsory study activities
- Are able to fulfil the compulsory participation obligation¹⁵

5.2 Form

The internal clinical exam consists of a written paper and an oral presentation, as well as an oral exam. The starting point for the written presentation is concrete clinical nursing situations or pathways with nursing interventions in complex care and treatment pathways.

The written and oral presentation is prepared with the involvement of national and international research- and development-based knowledge.

The clinical instructor/supervisor introduces and supervises the internal clinical exam, possibly as groups.

In total, one lesson's introduction/supervision is given for the written and/or oral presentation.

5.2.1 Concrete clinical nursing situations or pathways

During the last three to four weeks of the clinic, in cooperation with the clinical instructor/supervisor, you will select care and treatment pathways to form the basis for the written presentation.

Maximum four hours are allocated, during which you independently undertake clinical decision-making and clinical management in stable, acute and complex care and treatment pathways, in interaction with citizens/patients/relatives.

In cooperation with you, the clinical instructor/supervisor will assess whether the maximum four hours must be scheduled to take place at the same time or over several days, based on the local organisation of the clinical practice.

The clinical instructor/supervisor attends the clinical nursing pathway as an observer¹⁶.

5.2.2 Written presentation

After the practical element, you will prepare a written presentation which reflects the clinical nursing pathway with critical reflection on clinical decision-making and clinical management.

The presentation must include a description of clinical decision-making and clinical management:

- A description that includes a reasoned assessment of the patient's/citizen's current care and treatment pathway, showing the level of complexity
- Selection and analysis of one or several of the patient's/citizen's clinical nursing issues
- Argumentation and critical reflection on the clinical decision-making and clinical management performed in the selected nursing interventions, with reference to research-based knowledge. A search protocol must be attached as an appendix.

The written presentation must be written in clear healthcare professional language, and must have a maximum extent of 12,000 characters (including spaces). The presentation must be prepared in accordance with "*Technical guidelines for writing assignments*" and "*Legal guidelines for the collection of patient data for use in assignments and projects*".

The written presentation and an appendix with follow-up of the points from OSA 1 must be uploaded to the Practice Portal as one single document in PDF format no later than three working days (12 p.m.) after the nursing interventions and no later than two working days before the agreed exam date.

¹⁵ The compulsory participation requirement of 90% for the entire semester must be fulfilled for the semester to be approved.

¹⁶ The role of observer entails that the clinical supervisor is present in the situation/situations and may be included as a person to whom you may delegate tasks. During the subsequent exam, the observer may ask questions about your choices and priorities.

5.2.3 Oral presentation

The written presentation forms the basis for the oral exam in which you must:

- Take a critically reflective approach to various perspectives of the nursing care provided, own activity and the outlook for the patient/citizen
- Present proposals for the development of future practice, including innovation, quality development and quality assurance
- Present proposals for implementation

For the oral presentation you may bring an outline of maximum 1 A4 page and illustrations if relevant.

5.3 Exam

The basis for the exam is your written and oral presentation. Knowledge from previous semesters which supports the written and oral presentation may be incorporated in the exam.

The exam lasts 40 minutes, including grading:

- You will begin with your oral presentation of maximum 10 minutes.
- You will then be examined for 20 minutes, based on the oral and written presentation.
- Then there are 10 minutes for grading, as well as feedback and feedforward.

The two examiners will conduct the exam together. The clinical supervisor has primary responsibility for asking questions during the exam.

5.4 Assessment

The assessment is made by the two examiners on the basis of your performance in the written and oral presentation, as well as the exam. The exam is graded according to the seven-point grading scale, cf. the Ministerial Order. The performance is graded on the basis of the focus areas for Semester 6.

The two examiners are on the same footing in relation to the assessment of your performance. In the event of disagreement, a consensus must be reached.

Grade 12 is given for an excellent performance demonstrating no or only few insignificant shortcomings in relation to the focus areas for Semester 6.

This means that you - without significant errors and defects, with proficient integration of different forms of knowledge - must be able to apply clinical decision-making and initiate actions on the basis of identified nursing problems in a complex context and in interaction with the patient/citizen and relatives within and across sectors.

You must also show that without significant errors and defects and in interaction with the patient/citizen and relatives, you can handle and reflect critically on your clinical management of patient/citizen pathways and your choice of priorities on the basis of your clinical knowledge. This furthermore includes that you can act ethically, empathetically and reflectively in nursing situations characterised by various different legal, cultural, professional, political, economic and societal perspectives.

You must also - on the basis of your own area of responsibility and without significant errors and defects - be able to account for and reflect on all elements of the medicine handling process.

The excellent performance is also characterised by how you can proficiently reflect on and take responsibility for the use and applicability of clinical methods, technologies, innovation, forms of documentation, quality assurance and quality development which support patient-/citizen-experienced correlations in an overall healthcare system.

You must also be able to proficiently use and assess research- and development-based knowledge and results concerning complex clinical activity, and also proficiently relate critically to investigation of knowledge-based practice in relation to clinical nursing problems.

Grade 02 is given for the adequate performance characterised by the minimum acceptable degree of fulfilment of the focus areas for Semester 6.

This means that you - to an adequate degree and with fairly proficient integration of different forms of knowledge - must be able to apply clinical decision-making and initiate actions on the basis of identified nursing problems in a complex context and in interaction with the patient/citizen and relatives within and across sectors.

You must also show that to an adequate degree, and in interaction with the patient/citizen and relatives, you can handle and reflect critically on your clinical management of patient/citizen pathways and your choice of priorities on the basis of your clinical knowledge. This furthermore includes that you can act ethically, empathetically and reflectively in nursing situations characterised by various different legal, cultural, professional, political, economic and societal perspectives.

You must also - on the basis of your own area of responsibility and to an adequate degree - be able to account for and reflect on all elements of the medicine handling process and the underlying diseases.

The adequate performance is also characterised by how you can fairly proficiently reflect on and take responsibility for the use and applicability of clinical methods, technologies, innovation, forms of documentation, quality assurance and quality development which support patient/citizen-experienced correlations in an overall healthcare system.

You must also on a fairly proficient basis be able to use and assess research- and development-based knowledge and results concerning complex clinical activity, and also on a fairly proficient basis relate critically to investigation of knowledge-based practice in relation to clinical nursing problems.

You have passed the internal exam when you have achieved grade 02 or a higher grade.

Students are not allowed to resit exams that they have passed.

5.5 Framework for the exam

You are registered automatically for the semester's exam at the start of the semester, cf. Ministerial Order no. 1500 of 02/12/2016 concerning Exams in Professionally Oriented Higher Education Degree Programmes (the Exam Order).

You may only withdraw from the exam in the event of documented illness or maternity/paternity leave, if you can document illness with a free-text certificate, or if unusual circumstances apply¹⁷. The documentation must be submitted to Student Services by no later than three working days after the commencement of the exam. If you fall ill on the day of the exam, the documentation must be submitted to Student Services by no later than three working days after the exam day.

If you have not passed or were on sick leave at the time of the exam, you will still be registered for the exam, which must be taken as soon as possible. The clinical supervisor, the associated instructor and yourself will agree on the resit. Student Services must be informed of the exam time.

¹⁷ Ministry of Higher Education and Science, 2016. *Ministerial Order on Exams on Professionally Oriented Higher Education Degree Programmes*. Ministerial Order no. 1500 of 02/12/2016. Accessible (in Danish) via: <https://www.retsinformation.dk/Forms/R0710.aspx?id=184136>

Appendix 1: Learning outcome for Semester 6

After completing the semester, the student will have achieved the following learning outcome, expressed as knowledge, skills and competences:

Knowledge

- Has knowledge of and can describe and reflect on performing, prioritising, evaluating and adjusting nursing interventions in complex clinical contexts, while integrating knowledge of patients/citizens, experience-based knowledge and research-based knowledge, in interaction with the patient/citizen and relatives in relation to clinical decision-making and clinical management
- Has knowledge of and can describe and reflect on clinical decision-making, including observing, diagnosing, prescribing medicine within a framework for delegation, assessing, prioritising, evaluating, adjusting, leading, coordinating, documenting and communicating across sectors
- Has knowledge of and can describe and reflect on the clinical management of patient and citizen pathways, and of care and treatment pathways in interaction with patients/citizens, relatives and other healthcare professionals, with due consideration of quality assurance and quality development
- Has clinical knowledge of illnesses and can describe and reflect on this knowledge during complex clinical activities
- Has knowledge of and can describe and reflect on clinical methods, technologies, innovation, forms of documentation, quality assurance and quality development in complex clinical activities
- Has knowledge of and can describe and reflect on dilemmas in clinical decision-making while taking account of cultural, professional, political, economic and societal perspectives, and can intervene within the framework of current legislation
- Has knowledge of and can describe how to search for current national/international research- and development-based knowledge relevant to the nurse's area of activity

Skills

- Can perform, prioritise, evaluate and adjust nursing interventions in complex contexts with integration of knowledge of patients/citizens, experience-based knowledge and research-based knowledge, in interaction with the patient/citizen and relatives in relation to clinical decision-making
- Can use clinical decision-making, including by systematically observing, diagnosing and prescribing medicine within a framework for delegation, and assess, prioritise, evaluate, adjust, lead, coordinate, document and communicate across sectors
- Can apply, assess and communicate clinical management of patient/citizen pathways and of care and treatment pathways in interaction with patients/citizens, relatives and other healthcare professionals, with due consideration of quality assurance and quality development
- Can apply and assess clinical knowledge of illnesses and handle medicine for clinical decision-making in care and treatment pathways in complex clinical activity
- Can engage professionally in and assess relations with patients/citizens, relatives and other professionals
- Can apply and assess clinical methods, technologies, innovation, forms of documentation, quality assurance and quality development
- Can evaluate and communicate dilemmas and reflect on clinical decision-making with due consideration of different cultural, professional, political, economic and societal perspectives, and carry out interventions within the framework of current legislation
- Can apply and assess research- and development-based knowledge and results in complex clinical activity

- Can evaluate and communicate dilemmas and reflect on clinical decision-making with due consideration of different cultural, professional, political, economic and societal perspectives, and carry out interventions within the framework of current legislation
- Can apply and assess research- and development-based knowledge and results in complex clinical activity

Competences

- Can independently perform, prioritise, evaluate and adjust nursing interventions in complex contexts while integrating knowledge of patients/citizens, experience-based knowledge and research-based knowledge in interaction with the patient/citizen and relatives, in relation to clinical decision-making
- Can independently use clinical decision-making, including systematic observation, diagnosis, and prescribing of medicine within a framework for delegation, and assess, prioritise, evaluate, adjust, lead, coordinate, document and communicate across sectors
- Can independently handle clinical management of patient/citizen pathways and of care and treatment pathways, in interaction with patients/citizens, relatives and other healthcare professionals, with due consideration of quality assurance and quality development
- Can independently reflect critically on and apply clinical knowledge of illnesses and medicine handling in care and treatment pathways in complex clinical activity
- Can critically reflect on and assume responsibility for the use and applicability of clinical methods, technologies, innovation, forms of documentation, quality assurance and quality development
- Can adopt a critically reflective approach to their own activities and develop their own competences
- Can relate to patients in an empathetic way, handle ethical dilemmas and reflect on clinical decision-making with due account of different cultural, professional, political, economic and societal perspectives, and can carry out nursing interventions within the framework of current legislation
- Can investigate and reflect critically on knowledge-based practice in relation to clinical nursing problems

Appendix 2: Guidelines for student nurses' participation in dispensing and administration of medicine within the Capital Region of Denmark:

During your studies, with increasing independence, you will handle medicine during your clinical training.

You will handle medicine, fluid therapy and blood transfusions with a nurse's responsibility¹⁸ and also yourself hold responsibility under the Criminal Code (Consolidated Act no. 1062 of 17/11/2011), Section 79(1), Section 237, Section 241 and Section 249.

You have both a right and a duty to refuse to undertake tasks which you assess that you are not competent to perform.

You must with increasing responsibility and authority, under supervision, be trained to handle the nurse's functions in relation to medicine handling. For the individual semesters it is described which tasks you may and must perform in relation to the handling of medicine.

Generally for all semesters, the clinical supervisor/nurse who delegates the task to you is also responsible for the performance of the task. The clinical supervisor/nurse must ensure that you have the necessary knowledge and can correctly perform the guidelines, instructions and procedures (VIPs) adopted for the clinical training site.

Your access to medicine/medicine rooms will adhere to the clinical training site's local rules for trainee staff.

At the first study interview, the clinical supervisor/nurse and yourself must agree which tasks it is relevant to practice at the relevant clinical training site. The starting point is the semester description and your documentation sheet for medicine handling.

Necessary definitions and responsibility concerning medicine handling

- The medication process concerns medicine prescription, dispensing, medicine administration, self-administration and medicine documentation.
- Medicine handling: All procedures concerning medicine, after it has been dispensed by the pharmacy, with or without being prescribed by a doctor
- Dispensing: The processes whereby the staff count or prepare prescribed medicine to be taken, i.e. measure, pour or draw into another container, and possibly add an agent to the solution or mixture
- Medicine administration: the staff's distribution and help for the patient's or citizen's taking of medicine, including the required observation of the patient or citizen.

In general concerning Semester 6

You will be introduced to and be able to attend and train the medicine handling process in relation to Semester 6, i.e.:

- Receive an introduction to and training in the local training site's medicine handling processes, including:
 - Legislation and guidelines
 - Working environment and patient safety

¹⁸ The legal basis is:

- Danish Ministry of Health 2016. *The Authorisation Act*. Consolidated Act no. 1356 of 23/10/2016. <https://www.retsinformation.dk/Forms/r0710.aspx?id=183809>
- Danish Ministry of Health 2015. *Vejledning om ordination og håndtering af lægemidler (Guidance concerning the prescription and handling of pharmaceuticals)*. Guide no. 9079 of 12/02/2015. <https://www.retsinformation.dk/Forms/R0710.aspx?id=168156%20%20%20>
- Danish Ministry of Health 2013. *Vejledning om identifikation af patienter og anden sikring mod forvekslinger i sundhedsvæsenet (Guidance on identifying patients and other protection against mix-ups in the healthcare system)*. Guide no. 9808 of 13/12/2013. <https://www.retsinformation.dk/Forms/R0710.aspx?id=160895>
- Danish Ministry of Health 2013. *Vejledning om sygeplejefaglige optegnelser (Guide Concerning Nursing Records)*. Guide no. 9019 of 15/01/2013. <https://www.retsinformation.dk/Forms/R0710.aspx?id=144979>

- Pharmacology and the most commonly used preparations and administration methods, including IV.
- Intravenous administration and basic fluid therapy, where relevant
- Have the opportunity for continuous training under supervision (development of competences) in nursing tasks associated with the medicine handling area and the entire medicine handling process, including:
 - Continuous exercise and training in the use of electronic aids (PDA, EPM, FMK, etc.)
 - Continuous exercise and training in the entire medicine handling process (data collection, dispensing, administration, short-term and long-term observations, documentation)
 - Exercises in handling apparatus, catheters, infusion sets, intravenous administration, mixing and solution of medicine, dosage and handling of different routes of administration, such as inhalation, infusion, suppositories, etc.
 - Work with patient situations that reflect the breadth and complexity of the medicine handling area
- Have the opportunity to complete a medicine handling situation and feedback that include the module's requirements of breadth and complexity. Professional feedback which supports forward-looking further competence development.

Infusions, intravenous and epidural medicine

The clinical supervisor/nurse must first have controlled the infusion fluid and made sure that you can perform the procedure correctly, which applies to all handling of medicine.

Transfusion of blood products

If transfusion of blood products is included in the nurse's normal working area at the clinical training site in question, provided that you have received theoretical instruction and practical training, you can take part in the nursing routines in relation to transfusions.

It is the clinical supervisor/nurse's responsibility that procedures are performed correctly and are subject to supervision and monitoring.



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