For alla

Description of the objectives for doctors' specialty training

The Swedish Medical Association's translation into English





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Validity and area of application of this document

For information purposes, the Swedish Medical Association (Läkarförbundet) has translated parts of the National Board of Health and Welfare's (Socialstyrelsens) publication "Läkarnas specialiseringstjänstgöring Målbeskrivningar 2015" ISBN 978-91-7555-304-7 into English.

In this publication, the knowledge, skills and approaches that the registered doctor undergoing specialty training (the specialty resident, specialty trainee or "ST-läkare" in Swedish) is to develop during his/her specialty training. The descriptions of the objectives specify a number of learning objectives. Learning objectives a apply to all specialties, learning objectives b apply to many specialties while learning objectives c are specific to each specialty. This English translation is only intended to be regarded as an aid that the Swedish Medical Association provides in applying the descriptions of the objectives for doctors' specialty training. Because the translation is a product from the Swedish Medical Association and not of the National Board of Health and Welfare, the translation is not valid for application as regulations. It is the National Board of Health and Welfare's printed publication describing the regulations and general recommendations that applies.

In this document, the Swedish Medical Association has chosen to translate all learning objectives a and learning objectives b as well as the glossary of terms from the National Board of Health and Welfare's publication. In addition, the specialist skills descriptions and learning objectives c for 27 specialties have been translated, which has been done in consultation with and funded by the Swedish Medical Association's specialty associations and the Swedish Society of Addiction Medicine.



Glossary of terms

Clinical attachment Structured programme where the specialty trainee

observes the professional practice of one or more colleagues and to some extent performs tasks in

the area in question

Supervision Support and guidance in the form of dialogue

provided continuously

Supervisor Specialist doctor who has completed an

educational supervisor course and who supervises the specialty trainee, and evaluates his or her

professional development

The supervisor may be the specialty trainee's principal supervisor or another doctor whit

appropriate specialist skills for that training period

Clinical practice under

supervision

The specialty trainee's clinical practice under his/her own professional liability and with the

support of the supervisor

Course Structured programme based on set educational

goals

Quality and development

activities

Quality improvement project that the specialty trainee carries out, which is part of the healthcare

rainee carries out, which is part of the healthcar

system's systematic quality management

Independent written project

based on scientific principles

Written project undertaken in which the specialty

trainee independently answers a scientific

question using evidence based medicine principles

School health service Medical interventions in student health



Surgical specialties

Anaesthesia and Intensive Care Medicine





Description of skills

The specialty of Anaesthesia and Intensive Care is characterised by a cross-disciplinary professional approach and covers:

- · Perioperative medicine,
- Anaesthesia and pain management in diagnostic and therapeutic procedures,
- · Intensive care,
- Emergency treatment of patients with serious illness or injury,
- Prehospital care and transport and catastrophe medicine, and
- Pain management.



Skills requirements

For Anaesthesia and Intensive Care, learning objectives a1-a6, b1-b3, b5 and c1-c13 apply.

Learning objectives a and b

Learning objective a1	Programme activities	Assessment
Teamwork, leadership and pedagogy		
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Be able to take responsibility for his/her continuous learning in the workplace 	supervision	programme activities and attained the required
Be able to exercise leadership in his/her daily work, including lead a healthcare team		competencies issued by the supervisor
Be able to take responsibility for the development of multi-professional teamwork	Participation in one or more courses	Certificate of completed programme activities and attained the required
Be able to take responsibility for cooperation with patients and their families**		competencies issued by the course provider or the
 Be able to work in networks looking after the patient 	General recommendations	supervisor
 Be able to collaborate with agencies outside the hospital healthcare system such as social welfare boards, agencies within the social services, schools and Försäkringskassan (the Swedish Social Insurance Agency) 	Participation in intra- or inter-professional reflection in groups Supervise under supervision	
 Be able to present and explain medical information in a way that is understandable to the recipient, orally and in writing 	Teach under supervision	
Be able to plan and carry out teaching and training		
 Be able to supervise and instruct colleagues and students 		



Learning objective a2	Programme activities	Assessment
Ethics, diversity and equality		
The specialist doctor shall:	Clinical practice under	Certificate of completed
Demonstrate knowledge and understanding	supervision	programme activities and
of the principles of medical ethics and be		attained the required
able to identify ethical problems and analyse		competencies issued by the
these in a structured way		supervisor
Be able to handle conflicts in values in	Participation in one or	Certificate of completed
his/her daily work	more courses	programme activities and
 Be able to treat people as individuals and 		attained the required
with respect regardless of gender, transgender identity or expression, ethnic origin, religion or other faith, disability, sexual orientation or age.		competencies issued by the
		course provider or the
		supervisor
	General recommendations	
	Participation in intra- or	
	inter-professional reflection	
	in groups	

Learning objective a3	Programme activities	Assessment
Infection Prevention and Control		
The specialist doctor shall:	Clinical practice under	Certificate of completed
Be able to take responsibility for the prevention and control of healthcare-	supervision	programme activities and attained the required
associated infections		competencies issued by the
		supervisor



Learning objective a4 Systematic quality and patient safety management	Programme activities	Assessment
The specialist doctor shall: - Critically examine his/her own practice and be able to conduct a risk and outcome analysis - Be able to take responsibility for systematically implementing measures,	Clinical practice under supervision	Certificate of completed programme activities and attained the required competencies issued by the supervisor
processes and procedures to improve patient care Be able to take responsibility for the integration of new technologies and procedures into his/her daily work as a doctor	Quality and development work	Certificate of completed programme activities and attained the required competencies issued by the supervisor
	General recommendations Participation in seminars Attendance at large professional gatherings	

Learning objective a5	Programme activities	Assessment
Medical science		
The specialist doctor shall:	Clinical practice under	Certificate of completed
Demonstrate a deeper knowledge and understanding of medical scientific methodology and ethical principles	supervision	programme activities and attained the required competencies issued by the
 Be able to critically examine and evaluate 		supervisor
scientific papers	Independent written work	Certificate of completed
 Demonstrate a scientific evidence based approach to his/her daily way of working and routines 	based on scientific methodology	programme activities and attained the required competencies issued by the supervisor
	Participation in one or	Certificate of completed
	more courses	programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Participation in seminars	
	Attendance at large	
	professional gatherings	



Learning objective a6 Legislation and other regulations and the health and medical care system's organisation	Programme activities	Assessment
The specialist doctor shall:	Participation in one or	Certificate of completed
Demonstrate knowledge of the legislation and regulations which govern the healthcare system and its staff	more courses	programme activities and attained the required competencies issued by the
Demonstrate knowledge of the health and medical care system's organisation and administration		course provider or the supervisor
 Demonstrate knowledge of the health and medical care system's various financial control systems and their importance for the balancing of priorities in his/her daily work 		



Learning objective b1	Programme activities	Assessment
Communication with patients and families		
The specialist doctor shall: - Be able to adapt his/her way of communicating based on the patient's and their relatives' individual needs and communication capabilities	Clinical practice under supervision	Certificate of completed programme activities and attained the required competencies issued by the supervisor
 Be able to give patients and their families difficult news with respect, empathy and sensitivity Be able to support the patient's ability to manage a change in life situation as a result of an illness or disability. 	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
an illness or disability – Be able to consult with patients and their families concerning the patient's self-care	General recommendations Participation in intra- or inter-professional reflection in groups Clinical attachment	

Learning objective b2 Prevention of disease and ill-health	Programme activities	Assessment
 The specialist doctor shall: Be able to guide patients in matters of lifestyle choices in order to: Prevent the development of diseases associated with one or more lifestyle habits Improve the prognosis in patients with diseases associated with one or more lifestyle habits 	Clinical practice under supervision Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the supervisor Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Attendance at large professional gatherings	



Learning objective b3	Programme activities	Assessment
Medicines		
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Be able to adapt pharmacotherapy to the patient's age, sex, weight, kidney and liver function as well as any comorbidity and other medication 	supervision	programme activities and attained the required competencies issued by the supervisor
 Be able to assess the risks of interactions 	Participation in one or	Certificate of completed
and side effects with pharmacotherapy	more courses	programme activities and
Be able to work with patients and their		attained required
families to achieve compliance with medications		competencies
		requirements issued by the
 Be able to work with other parties in the patient care chain with regard to pharmacotherapy 		course provider or the supervisor
 Be able to critically review and evaluate scientific evidence surrounding pharmacotherapy 		
 Demonstrate knowledge of the environmental impacts of pharmacotherapy 		
 Demonstrate knowledge of the health economics aspects of pharmacotherapy 		



Learning objective b5 Palliative care in the final stages of life	Programme activities	Assessment
The specialist doctor shall: - Be able to identify the need for and initiate palliative care in the final stages of life - Be able to hold conversations with patients and their families concerning transiting to	Clinical practice under supervision or alternatively clinical attachment	Certificate of completed programme activities and attained the required competences issued by the supervisor
palliative care - Be able to apply the fundamental principles of palliative symptom relief with regard to physical, psychological, social and existential needs	Participation in one or more courses	Certificate of completed programme activities and attained the required competences issued by the course provider or the supervisor
	General recommendations Participation in seminars Attendance at large professional gatherings Clinical attachment	
	Training in simulated environment	



Learning objectives c

The specialist doctor shall have the skills required to be able to work independently at hospitals with a broad spectrum of emergency specialties, and with round-the-clock activities.

The specialist doctor shall have:

- Knowledge and skills in monitoring, supporting and restoring the body's vital functions in patients of all age groups having surgical interventions, major injuries or serious illnesses,
- Knowledge of anaesthesiology and medical technology,
- Knowledge of nosology, diagnostic techniques and therapeutic procedures, and
- The ability to make cost-benefit assessments.

In addition, the specialist doctor has to take the lead in managing critically ill patients within and outside the hospital. This includes the prioritisation of patients with different illnesses or injuries and stabilising the patient during transport.

An additional important skill is to be able to manage complex acute situations adequately, and to have the ability to make ethical decisions in the case of life-threatening conditions.



Learning objective c1	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
– Master relevant basic scientific knowledge	supervision at one or more units conducting such activities or managing such	programme activities and attained the required competencies issued by the
	cases	supervisor
	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Theoretical studies	

Learning objective c2	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Master the medical technology used in the specialty 	supervision at one or more units conducting such activities or managing such cases	programme activities and attained the required competencies issued by the supervisor
	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Theoretical studies	



Learning objective c3	Programme activities	Assessment
The specialist doctor shall: - Master risk assessment and perioperative care of patients undergoing surgical interventions as well as diagnostic and therapeutic procedures	Clinical practice under supervision at one or more units conducting such activities or managing such cases Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the supervisor Certificate of completed programme activities and
		attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Clinical attachment	
	Theoretical studies	

Learning objective c4	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Master diagnostic and therapeutic procedures as well as risk scoring tools 	supervision at one or more units conducting such activities or managing such	programme activities and attained the required competencies issued by the
	cases	supervisor
	Participation in one or more	Certificate of completed
	courses	programme activities and
		attained the required
		competencies issued by the
		course provider or the
		supervisor
	General recommendations	
	Clinical attachment	
	Theoretical studies	



Learning objective c5	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Master anaesthesia for surgical interventions and in diagnostic and therapeutic procedures 	supervision at one or more units conducting such activities or managing such cases	programme activities and attained the required competencies issued by the supervisor
	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Clinical attachment	
	Theoretical studies	

Learning objective c6	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
Be able to manage intensive care for medical and surgical patients	supervision at one or more units conducting such	programme activities and attained the required
Be able to identify and care for potential organ donors	activities or managing such cases	competencies issued by the supervisor
organ donors	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Clinical attachment	
	Theoretical studies	



Learning objective c7	Programme activities	Assessment
The specialist doctor shall: - Have a professional approach to patients and their relatives when dealing with ethical decisions in life-threatening conditions and when stopping treatment	Clinical practice under supervision at one or more units conducting such activities or managing such cases	Certificate of completed programme activities and attained the required competencies issued by the supervisor
	General recommendations Participation in diagnostic and treatment conferences Clinical attachment	

Learning objective c8	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Master the assessment and treatment of acute pain and labour pain Be able to initiate the management of 	supervision at one or more units conducting such activities or managing such cases	programme activities and attained the required competencies issued by the supervisor
cancer pain	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Clinical attachment	
	Theoretical studies	



Learning objective c9	Programme activities	Assessment
The specialist doctor shall: - Master the care of the critically ill and	Clinical practice under supervision at one or more	Certificate of completed programme activities and
injured patients, including children - Be able to manage complex emergency situations under stress	units conducting such activities or managing such cases	attained the required competencies issued by the supervisor
- Be able to take adequate steps when there is a suspicion of child neglect or abuse	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Theoretical studies	
	Training in simulated environment	

Learning objective c10	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
Be able to manage patients injuries at sites outside hospital	supervision at one or more units conducting such activities or managing such	programme activities and attained the required competencies issued by the
Be able to manage the transport of patients with failing vital functions between and within	cases	supervisor
hospitals - Have a good knowledge of catastrophe medicine	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations	
	Theoretical studies	
	Training in simulated environment	



Learning objective c11	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under supervision at one or more	Certificate of completed programme activities and
 Be able to manage patients within at least one specialised area of anaesthesia with associated intensive care 	units conducting such activities or managing such cases	attained the required competencies issued by the supervisor
	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the course provider or the supervisor
	General recommendations Clinical attachment	
	Theoretical studies	

Learning objective c12	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Have knowledge of the activities and approaches of other specialties relevant to a multi-disciplinary approach 	supervision at one or more units conducting such activities or managing such cases	programme activities and attained the required competencies issued by the supervisor

Learning objective c13	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
Be able to apply legislation and other	supervision at one or more	programme activities and
regulations applicable to the specialty	units conducting such	attained the required
- Samuel approach	activities or managing such	competencies issued by the
	cases	supervisor
	Participation in one or more	Certificate of completed
	courses	programme activities and
		attained the required
		competencies issued by the
		course provider or the
		supervisor



General recommendations

Programme structure

It is of the utmost importance that specialty training is through clinical attachments at the care units required for the specialty trainee to fulfil the educational goals of the education programme. Depending on the structure of the current healthcare provider, this can entail specialty training at on one or more units. The units where the main part of the specialty training takes place should provide both anaesthesia and intensive care work with rostered on-call duty at the hospital, where the specialty trainee should be a member of the on-call group.

An introductory period should be spent on clinical practice in anaesthesia and intensive care. The goal is for the specialty trainee to be able to manage routine anaesthesia with associated perioperative care, so that he/she can then be rostered to be on-call for the hospital. The specialty trainee should devote the period after the introductory period to further their knowledge and skills in anaesthesia and intensive care.

Part of his/her intensive care clinical placement should be at a multi-disciplinary Intensive Care Unit. The programme should include long continuous periods at an intensive care unit as well as in specialised anaesthesia, that is, specialty anaesthesia training at a tertiary referral hospital providing anaesthesia with associated intensive care which, based on the pathophysiology of the illness and the complexity of the intervention and specific needs, constitute a specialised area.

The goal is for the specialty trainee to gain insight into illnesses which entail an increased perioperative risk and in illnesses relevant for intensive care. Through this, the specialty trainee should gain a better understanding of the activities and approaches of both his/her own specialty and other specialties, enabling excellent collaborations.

Throughout the entire programme, theoretical studies should be alternated with clinical practice. The periods of specialty training in clinical practice should be continuous. The theoretical training should take the form of self-study, learning activities at the clinic and participation in scientific gatherings.