For alla

Description of the objectives for doctors' specialty training

The Swedish Medical Association's translation into English





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Författare: Ulrika Kaby Stockholm december 2018



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

resident 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 resident, and evaluates his or her

professional development

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

appropriate specialist skills for that training period

Clinical practice under

supervision

The specialty resident'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 resident carries out, which is part of the healthcare

system's systematic quality management

Independent written project

based on scientific principles

Written project undertaken in which the specialty resident independently answers a scientific

question using evidence based medicine principles

School health service Medical interventions in student health



Clinical Genetics





Description of skills

The specialty of Clinical Genetics is characterised by the diagnosis and management of diseases with a genetic basis and genetic counselling in relation to these diseases. This skills area covers all age groups and addresses all medical specialties where genetic inquiries arise.



Skills requirements

For Clinical Genetics, learning objectives a1-a6 and c1-c13 apply.

Learning objectives a

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 with respect regardless of gender, transgender identity or expression, ethnic origin, religion or other faith, disability, sexual orientation or age. 		attained the required
		competencies issued by the
		course provider or the
		supervisor
Solution of age.	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	supervision	programme activities and
prevention and control of healthcare-		attained the required
associated infections		competencies issued by the
		supervisor



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

The specialist doctor shall have knowledge in medical genetics.

In addition, the specialty resident shall have skills in:

- Interpretation of laboratory analyses
- Initial consultation, consulting and training activities, and
- Development projects.

The specialist doctor shall also:

- Be well versed in the principles of genetic diagnostics in order to be able to utilise different diagnostic methods and interpret the results,
- Be able to manage genetics investigations, for both congenital and acquired disorders, and in prenatal diagnostics,
- Have knowledge of complex genetics,
- Master family tree analysis and database management,
- Have the ability to provide genetic counselling and work as a consultant in genetics inquiries across the entire field of medicine,
- Be able to converse with patients on vital issues while taking into account ethical principles and values,
- Have the ability to monitor developments in knowledge and be oriented in current research in the area, and
- Be able to change ways of working and the content of his/her work guided by new knowledge and new methods.



Learning objective c1	Programme activities	Assessment
The specialist doctor shall: - Have knowledge of medical genetics, cytogenetics and molecular biology	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 genetic diagnostics and investigations, and have knowledge about the treatment and prevention of congenital genetic disorders 	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	
	Participation in diagnostic and treatment conferences	
	Attendance at large professional gatherings	
	Theoretical studies	



Learning objective c3	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Master genetic diagnostics and investigations and have knowledge about the treatment and prevention of acquired genetic disorders 	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 Participation in diagnostic and treatment conferences	
	Attendance at large professional gatherings Theoretical studies	

Learning objective c4	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
– Master genetic laboratory diagnostics	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 c5	Programme activities	Assessment
The specialist doctor shall: - Be able to initially manage syndrome investigations	Clinical practice under supervision, or alternatively clinical attachment at one or more units conducting such activities or managing such	Certificate of completed programme activities and attained the required competencies issued by the supervisor
	cases	Super visor
	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 c6	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Master prenatal diagnostics Have knowledge of pre-implant genetic diagnostics 	supervision, or alternatively clinical attachment at one or more units conducting such activities or managing such cases	programme activities and attained the required competencies issued by the supervisor
	General recommendations	
	Theoretical studies	



Learning objective c7	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Be able to provide genetic counselling at the individual and family level Be able to converse with patients on vital issues while taking into account ethical principles and values, 	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 c8	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Master family tree analysis and risk assessment 	supervision at one or more units conducting such activities or managing such	programme activities and attained the required competencies issued by the
	cases	supervisor

Learning objective c9	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
Master database management as a diagnostic aid	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 c10	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under supervision, or alternatively	Certificate of completed
Be able to manage genetic consultations in the health and medical care system	clinical attachment at one or more units conducting such	attained the required competencies issued by the
	activities or managing such	supervisor
	General recommendations	
	Participation in diagnostic and treatment conferences	
	Attendance at large professional gatherings	

Learning objective c11	Programme activities	Assessment
The specialist doctor shall: - Have knowledge of complex genetic correlations	Participation in one or more courses	Certificate of completed programme activities and attained the required competencies issued by the supervisor
	General recommendations	
	Theoretical studies	



Learning objective c12	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
 Have knowledge of how research results can be applied clinically 	supervision, or alternatively clinical attachment at one or more units conducting such activities or managing such cases	programme activities and attained the required competencies issued by the supervisor
	General recommendations	
	Attendance at large professional gatherings	
	Theoretical studies	

Learning objective c13	Programme activities	Assessment
The specialist doctor shall:	Clinical practice under	Certificate of completed
Be able to apply legislation and other regulations applicable to the specialty	supervision	programme activities and attained the required competencies issued by the 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

The specialty resident should complete his/her specialty training primarily at a healthcare unit specialising in clinical genetics. In order to achieve broad knowledge in genetic diagnostics, the specialty resident should acquire competence in laboratory diagnostics within both cytogenetics and molecular genetics. The management of genetic investigations related to both congenital and acquired genetic disorders is also an important part of the programme. This should be done with increasing autonomy during the programme. It is also important that the specialty resident is permitted to provide genetic counselling of increasing complexity during the programme.

The order in which the individual specialty resident studies the areas specified in the various learning objectives may be adjusted according to previous experience and current focus.

Some elements of the specialty resident's specialty training may need to take place at a different unit for clinical genetics so that specialty resident is given the opportunity to fulfil specific learning objectives. It is also important that the specialty resident gets ancillary training alternatively clinical attachment in other speciality areas to deepen his/her skills in clinical genetics. This is important within patient care activities such as paediatrics, gynaecology and obstetrics, neurology, oncology and haematology, but also within laboratory activities such as clinical pathology and clinical chemistry.