

## UMC 🕏 St Radboud

# Qualification for sonographers in reproductive medicine.

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ESHRE Campus Course Ultrasound in reproductive medicine Maribor, Slovenia March 8, 2013

# Disclosure Nothing to disclose

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Learning objectives	-
Understanding of the European structure for	
qualifications of sonographers.  • Understanding of the different levels for sonographers	
Understanding the tools to develop an training program	
for sonographers	
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Outline	-
Definition of sonographers	
Level of practice	
Levels of sonographers     Setting up a training system (example)	
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Definition sonographers	
Sonographers are healthcare professionals without a	
medical degree who use ultrasound for medical purposes in some specialities in some European	
countries.	
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Levels of practice	-
a lillarge condition has proportioned at different levels	
Ultrasound can be practised at different levels	
Great variations in medical systems between countries	
,	
Great variations in organisations of different specialities	
Difficult to strictly define levels of practice and training	
requirements	
3 levels of minimal training requirements	
EFSUMB, 2006	
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Levels of sonographers	
Level 1:	
to perform common examinations safely and accurately	
to recognise and differentiate normal anatomy and pathology	-
to diagnose common abnormalities within certain organ	
systems	
to recognise when referral for a second opinion is indicated	
Indicated	
Education level: Post graduate specialist training programs	
WHO, 1998	
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Levels of sonographers	
Level 2	
to accept and manage referrals from Level 1 practitioners	
to recognise and correctly diagnose almost all pathology	
within the relevant organ system	
to perform basic, non-complex ultrasound-guided	

invasive procedures

practitioners

• to teach ultrasound to trainees and to Level 1

Education level: sub-speciality training programs.

• to conduct some research in ultrasound

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UMC (V) at Kaaboud	
Levels of sonographers	
Level 3	
to accept tertiary referrals from Level 1 and 2	
practitioners	
to perform specialised ultrasound examinations	
to perform specialised ultrasound examinations     to perform advanced ultrasound-guided invasive	
procedures	
to conduct substantial research in ultrasound	
to teach ultrasound at all levels	
to be aware of and to pursue developments in ultrasound	
to be aware or and to pursue developments in dicasound	
Education levels advanced level of training account	
Education level: advanced level of training programs	
WHO 1998	
	•
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Minimal training requirements	
Minimal training requirements	
Detailed syllabus by national and /or European speciality	
groups	
Necessary amounts of practical experience	
Theoretical knowledge	
Practical skills	
Minimum number of scans	
Supervised scanning	
EFSUMB 2006	
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Minimal training requirements	
<ul> <li>Independent scanning, with review by a designated</li> </ul>	
trainer	
<ul> <li>Recommendations and/or regulations for evaluation</li> </ul>	
and interpretive skills	

EFSUMB 2006

Accreditation of individuals

Continuing professional education and development

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Theoretical knowledge Syllabus	
Theoretical knowledge Cyllabas	
Ultrasound physics	
Safety of ultrasound and contrast agents	
Ultrasound instrumentation	
<ul><li>Scanning techniques</li><li>Ultrasound artefacts</li></ul>	
Anatomy (of the relevant body systems)	
<ul> <li>Pathology (of the relevant body systems)</li> </ul>	
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Theoretical knowledge Syllabus	
Ultrasound findings in the normal condition	
Ultrasound findings in pathological conditions	
Scan interpretation	
Indications for ultrasound and inter-relationship with	
other imaging modalities  Ultrasound-guided procedures	
5 § p	
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OWC (A) St Van point	
Syllabus ultrasound in gynaecology of the RCOG	
Lagranian altisottora	
Learning objectives  clinical history.	
respect to the patients' privacy, cultural and religious	
needs.	
<ul> <li>select the right equipment</li> <li>conduct the examination effectively in a gentle and</li> </ul>	
<ul> <li>conduct the examination effectively in a gentle and considerate manner</li> </ul>	
understand of normal morphological ultrasound	
appearances of the female pelvis and its variations during the menstrual cycle	



### Syllabus ultrasound in gynaecology of the RCOG

### Learning objectives

- diagnose common gynaecological abnormalities and to interpret ultrasound findings in the context of patient's clinical history and symptoms
- · understand the limits of their competence and the need to seek advice where appropriate
- · write a structured report

Take home message

• Different levels of practice

• learn when to refer patients where appropriate

http://www.rcog.org.uk/files/rcog-corp/uploaded-files/ED-US-Module-4-Int-Gynae.pdf





### References

 Training in Diagnostic Ultrasound: Essentials, Principles and Standards: Report of WHO Study Group 1998.
 WHO technical report series: 875

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- "Building a European Ultrasound Community",
   European Federation of Societies for Ultrasound in
   medicine and biology (EFSUMB) 2006
- Intermediate Ultrasound in Gynaecologie, Royal
   College of obstetricians and gynaecologists (RCOG),
  2009