



EFOG-EBCOG Examination *(Obstetrics and Gynaecology)*

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CESMA Meeting

Barcelona, 7-8 December 2018



EFOG-EBCOG Examination

- The first Examination in 2016
- Organisation according to the rules and regulations of CESMA
- Collaboration with Orzone
- Successful candidates become European Fellows of Obstetrics and Gynaecology (EFOG-EBCOG)

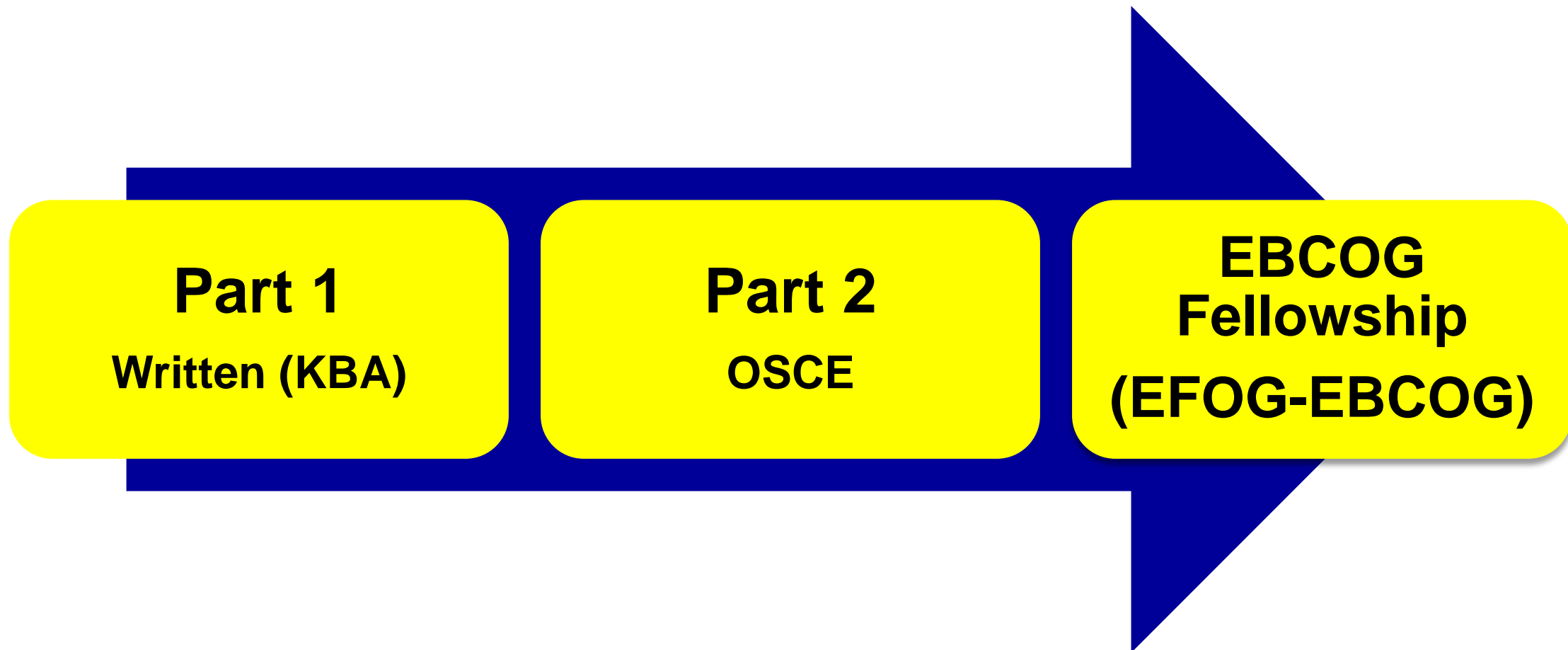


EFOG-EBCOG Examination

- Standing Committee on Examinations (SCE)
- Examination documents
- Question writers
- Quality Assurance Committee (QAC)
- Pre-Exam courses
- Examiners



Structure of the EBCOG Examination



Part 1: Written part of the Examination **(Knowledge Based Assessment – KBA)**



- **Obstetrics paper** (65 questions - stems)
– duration 3 hours, delivered on-line
- **Gynaecology paper** (65 questions - stems)
– duration 3 hours, delivered on-line



Part 1 (KBA) Exam

- Multiple Choice Questions (MCQ)
- Single Best Answer (SBA)
- Extended matching questions (EMQ)

MCQ

- 1 question = 1 stem
- 1 stem = 5 answers (true, false)
- 1 question X 5 answers



SBA

- 1 question = 1 stem
- 1 stem = 5 potential answers
- 1 question X 1 best answer

EMQ

- 1 question = 1 stem
- 1 stem = 3 scenarios
- 1 question X 3 scenarios
- 1 question X 3 answers

Comparing 3 types of questions

	MCQ	SBA	EMQ
Application of knowledge	Poor	Good	Good
Coverage of topic	Excellent	Excellent	Excellent
Reliability of score	Excellent	Excellent	Excellent
Ease of scoring	Excellent	Excellent	Excellent
Costs	Low	Low	Low
Cheating	Easy	Easy	Easy
Guessing odds	50%	20%	10%

Distribution of questions/paper

	MCQ	SBA	EMQ
2016 (65)	30 (X5=150) ↓ (75%)	20 (X1=20)	15 (X2=30) ↓ (15%)
2017 (65)	15 (X5=75) (40.5%)	20 (X1=20)	30 (X3=90) (48.6%)
2018 (65)	15 (X5=75)	20 (X1=20)	30 (X3=90)

Examination papers - Marks distribution

Type of questions		MCQ	SBA	EMQ
Number/ paper	65	15x5	20x1	30x3
Marks distribution	515	75	80	360 (70%)
<i>n/stem</i>		5/stem	4/stem	12/stem



Calculation of Pass Mark (Part 1)

- Angoff Method (setting pass mark)
- A panel of 10 judges



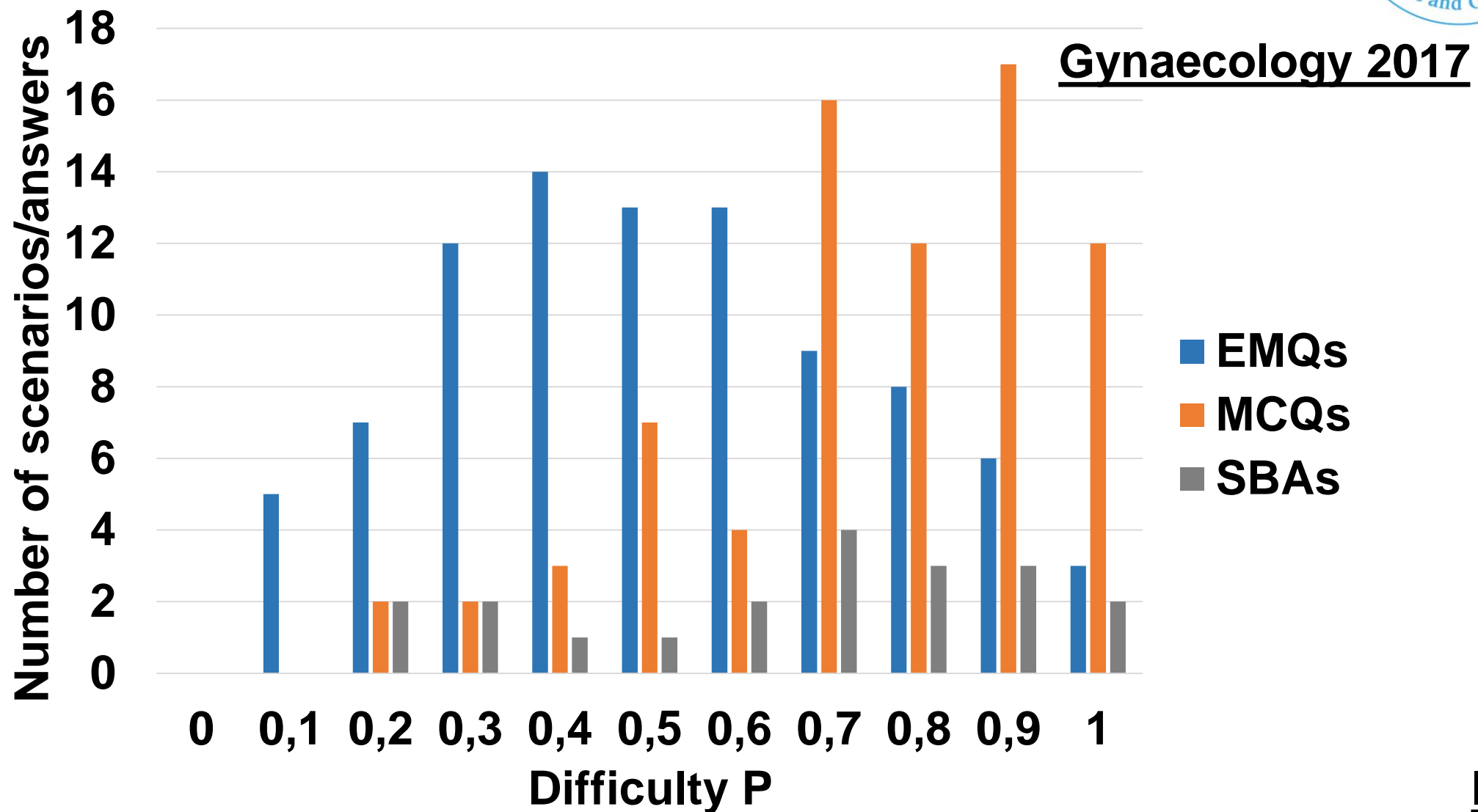
Validation of the assessment (exam)

- Difficulty of questions
- Reliability
- Discriminative power

Difficulty (P) Index

- Proportion (P) of candidates who answered each question/scenario correctly: $P\text{-value} = S_{sum} / S_{max}$
- S_{sum} : *total number of scores of all candidates*
- S_{max} : *maximum possible amount of score*
- The P-value range is between 0.0 and 1.0.
- The index of a suitable question lies between 0.2 (20%) and 0.8 (80%)

Difficulty (P) index: Distribution of all scenarios/answers



Reliability of the test exam

- The reliability means that the results of an examination would be the same if the exams were given at another time.
- The Cronbach's alpha evaluates the test items using multi-scale scoring for reliability
- The value of the “ α ” coefficient of reliability varies from 0.0 (no consistency) to 1.0 (perfect consistency)

Reliability

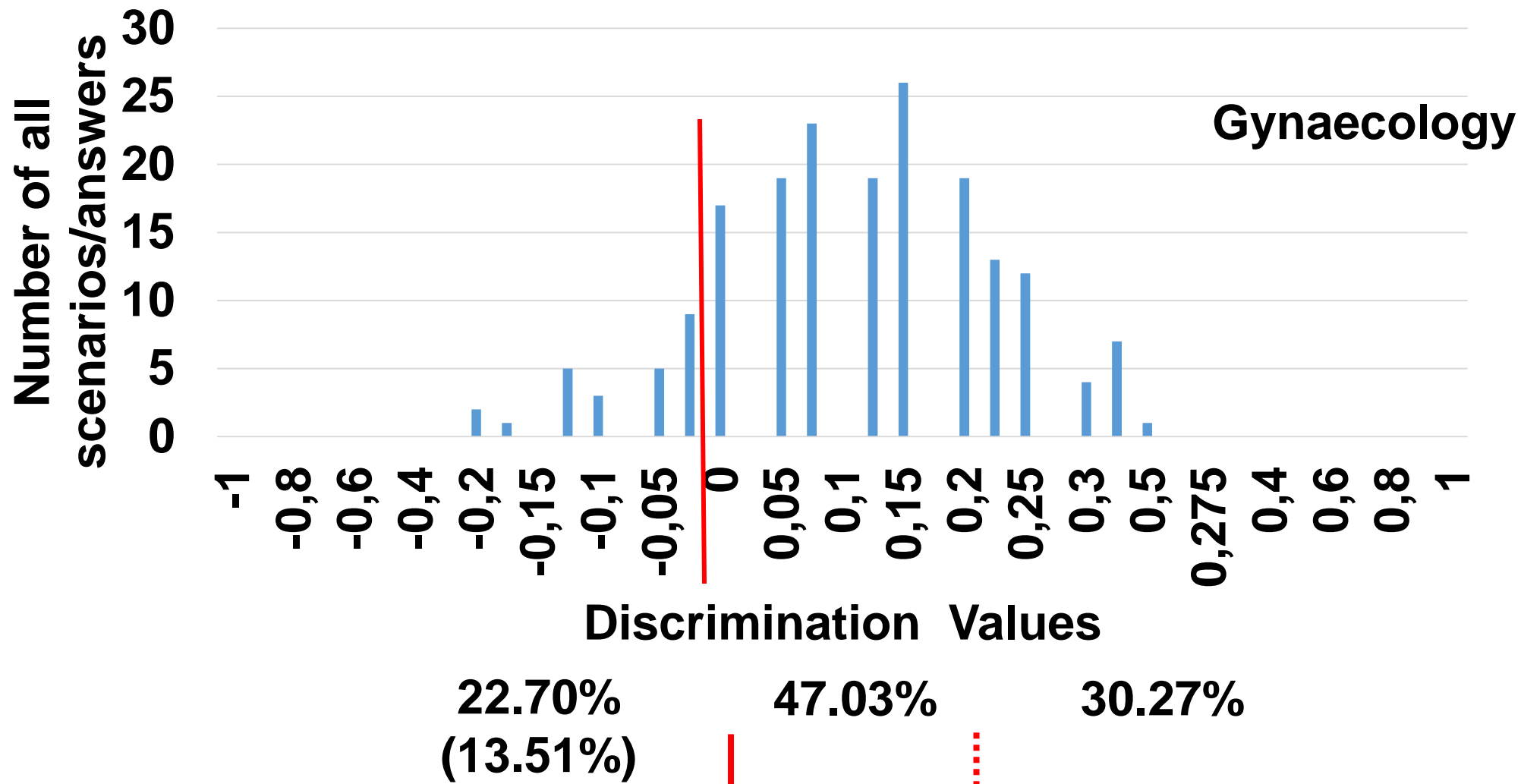
$\alpha = 0,8497$

Cronbach's alpha	Internal consistency
[0.9, 1]	Excellent
[0.8, 0.9]	Very Good
[0.7, 0.8]	Good
[0.6, 0.7]	Low
[0.5, 0.6]	Poor
[0, 0.5]	Questionable

Discrimination (ULI –Upper-Lower) Index

- Discrimination index distinguishes between good and bad candidates: **$ULI = N_U - N_L / 0.5N$**
- **N_U**: *number of good candidates who answered properly*
- **N_L**: *number of bad candidates who answered properly*
- **N**: *total number of candidates*
- Range of the index is from -1.0 to 1.0. Questions with negative discrimination index (<0.0) are not suitable

Discrimination (ULI) index distribution





Good quality (acceptable) Questions: “Green” (item discrimination)

- Discrimination: ≥ 0.25 and
 - Difficulty (P): 0.3-0.7
- or*
- Discrimination: ≥ 0.15 and
 - Difficulty (P): 0.2-0.3 or 0.7-0.8

Medium quality (acceptable) Questions: “Yellow” (item discrimination)

- Discrimination: ≥ 0.15 and < 0.25
- Difficulty (P): < 0.2 and > 0.8 ;
 > 0.3 and < 0.7
- Discrimination: < 1.5 and > 0

Item discrimination – 2018

GREEN (Good)	} <u>75.13</u>	<i>Positive discrimination</i>
YELLOW (Medium)		<i>Positive discrimination</i>
RED (Bad)	24.87	<i>No discrimination</i>

Part 2: Clinical part of the Examination **(OSCE)**



- Objective Structured Clinical Examination (OSCE)
- Clinical Skills Assessment
- It measures candidates' clinical competency

Part 2 (OSCE)

- 10 stations
- 1 of the 10 is the preparatory station
- 9 of the 10 stations with marks
- Simulators and actors
- Oral examination (case history)



Calculation of Pass Mark (Part 2)

- The median score of candidates evaluated as “borderline” by the examiners
- 7 out of the 9 (active) stations should be passed



EFOG-EBCOG Exam results

	2016	2017	2018
<u>PART 1</u> <i>Passing rate</i>	86.5% (Torino)	39.7% (Antalya/Lisbon)	41.0% (Brussels)
<u>PART 2</u> <i>Passing rate</i>	72.2% (Norwich)	59.4% (Amsterdam)	65.6% (Amsterdam)
OVERALL PASSING RATE	50.00%	32.35%	37.50%
New Fellows (EFOG-EBCOG)	26/52	22/68	21/56



Examination Certificate (Diploma)

- The certificate (diploma) of the EFOG-EBCOG is awarded to Fellows during the Graduation Ceremony