



European Board of Ophthalmology  
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# Report from CESMA meeting

*Saturday November 20th, 2010 – Crowne Plaza (Brussels)*

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## CESMA?

- CESMA
  - Council for European Specialist Medical Assessment
- Glasgow Declaration
  - European Board Examinations (different specialties)
- CESMA-UEMS
  - Included in Wikipedia in 2011 (Google etc.)





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# Glasgow Declaration

- Glasgow Declaration
  1. The role of the European Board Examinations is complementary to National Examinations where they exist.
  2. Countries which do not have their own examination are encouraged to consider using the appropriate European Board Examination
  3. European Board Examinations are regarded as a quality mark for independent practice at the end of specialist training. Passing a European Board Examination does not give a right to practise in any UEMS country. Such rights are granted solely by the relevant National Authority



# Glasgow Declaration

- Glasgow Declaration
  4. All European Board Examinations shall publish both a Curriculum (as set out in Chapter 6 of the UEMS Training Charter) and minimum requirements for examination.
  5. Candidates of any nationality shall be eligible to sit the European Board Examinations.



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# Glasgow Declaration

- Glasgow Declaration

6. Candidates for the final part of a European Board Examination must be medical graduates and should be either

- I. Certified specialists in any country (eligibility to be determined by the relevant Section or Multi-disciplinary Joint Committee)

or

- II. Trainees in the final year of specialist training in a UEMS member country.



# Glasgow Declaration

- Glasgow Declaration
  7. Candidates who pass a European Board Examination and who are certified specialists may call themselves “Fellow of the European Board of ...” and will receive a certificate.
  8. Trade sponsorship should not be used to subsidise the examination.
  9. It is proposed to establish an UEMS Council for European Specialist Medical Assessments (UEMS-CESMA) as a part of the EACPGMT™ (European Advisory Council for Postgraduate Medical Training), an advisory body to the UEMS Council.



# Amendment Glasgow Declaration

- European Board Examinations have obtained a legal status in some European countries
  - Amendment proposed to Article 3 of the Glasgow Declaration
  - “Passing a European Board Examination does not give an **automatic** right to practise in any UEMS country. Such rights are granted **exclusively** by the relevant National Authority”
  - Approved by CESMA-UEMS meeting on November 20th, 2010 (Crowne Plaza Hotel, Brussels)



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# Glossary of terms

- Certificate
- Diploma
- Fellow
- ...



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# European examinations' database

- Database of which European Board examinations have been accepted (partially or completely) in what countries
- Structure of the European Board examinations
  - Type of MCQs used within the European Board examinations
  - Type of score calculation and pass mark setting used within the European Board examinations
  - Conduct of oral examinations within the European Board examinations



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## New EU VAT policy (January 1st, 2011)

- VAT exemptions for European Board examinations?
  - Interpretation of EU Directive
  - Discussion going on whether European Board examinations must charge VAT for **countries not officially recognising** the European Board examination
  - Can VAT exemption be obtained in case the European Board organises **education before the examination**?  
Probably this is OK.
- Advise to **submit a demand for official VAT exemption of the European Board examination**



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## New EU VAT policy (January 1st, 2011)

- VAT exemptions for e-learning activities?
  - Only in case there is **interaction** with the **teacher**!
  - Only in case of **limited access**!
- VAT to be charged
  - Customer has no VAT number
    - Country of European Board bank account (examination)
    - Country of organiser (EU) or participant (non-EU) (e-learning)
  - Customer has VAT number
    - Country of European Board bank account (= country candidate)  
Country of organiser (EU) (= country participant)
    - Country of candidate/participant (reverse VAT charge)



# EBO participation at CESMA-UEMS

- Attendance at CESMA-UEMS meetings
  - March 28, 2009 (Brussels, Belgium)
  - November 21st, 2009 (Brussels, Belgium)
  - February 27th, 2010 (Vienna, Austria)
  - November 20th, 2010 (Brussels, Belgium)
- Lecture at CESMA-UEMS meeting
  - How to set pass marks? (November 21st, 2009)



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# EBO participation at CESMA-UEMS

- Invitation for lecture in 2011
  - Benefits of using negative marking in European examinations
  - Contrast presentation with European Society of Anaesthesiology (abandoning negative marking)
  - April 2<sup>nd</sup>, 2011 (Malta)



# EBO position within CESMA-UEMS

- Organisation and validation of EBOD Examination
  - 2<sup>nd</sup> largest European Examination (after Anaesthesiology)
  - EBO is one of a few Boards who use optical mark scanning for processing of the Examination (all of them use Speedwell)
  - EBO is the only Board organising written and oral assessment for all candidates on the same day
  - EBO is one of a few Boards with advising function within CESMA-UEMS



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# Collaboration with Speedwell

*Current status and future developments*

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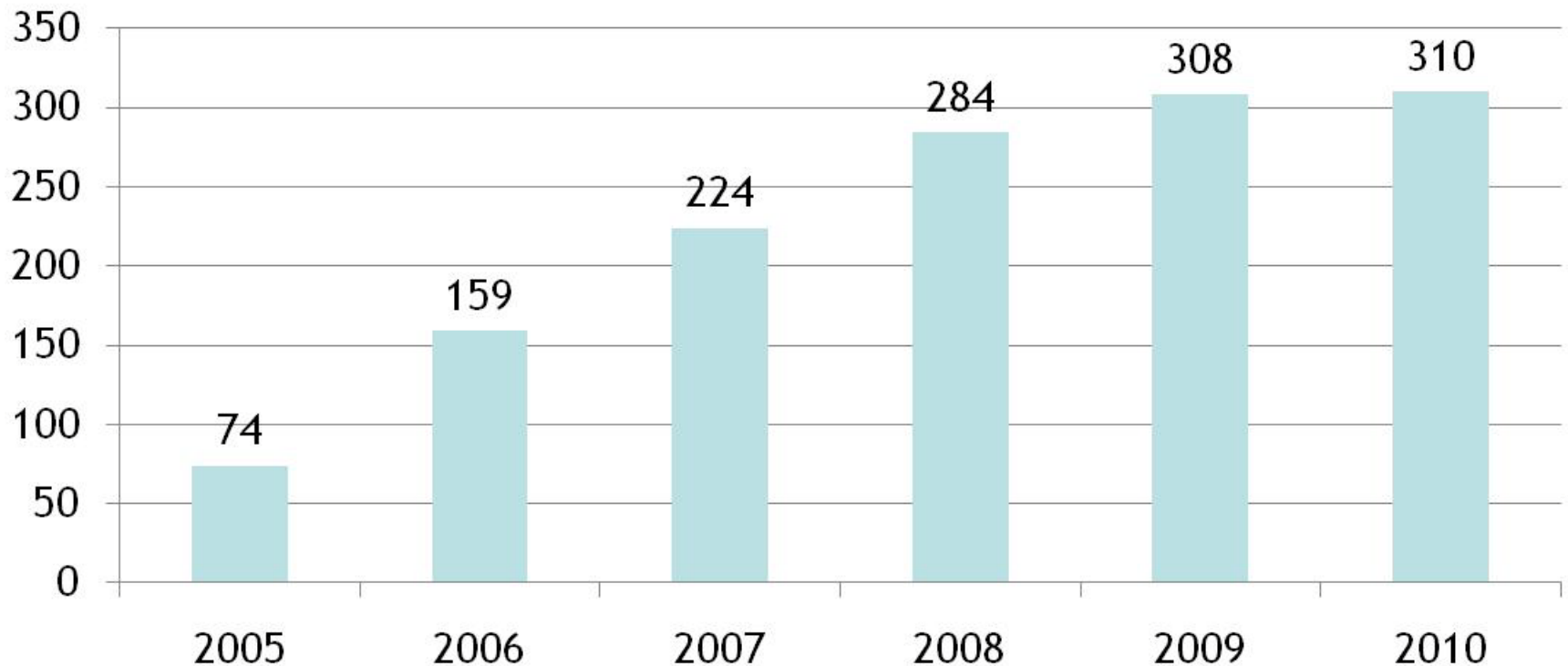
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## Optical Mark Scanning

■ Number of Candidates





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## Speedwell: Processing EBOD

- Design and printing of the EBOD MCQ Answer sheets
- Design and printing of the EBOD Viva Voce Mark sheets
- Scanning of the MCQ Answer sheets and Viva Voce Mark sheets

The image shows a sample of an EBOD Answer Sheet. At the top left is the EB logo. To its right is the text "European Board of Ophthalmology Answer Sheet". On the far right, there is a "CANDIDATE NUMBER" field with the number 014179. Below this, the candidate's name "Wild, Andreas" and country "SWITZERLAND" are printed. The choice of language is "german" and the candidate status is "Resident". The gender is "Male" and the age is "25-30".

**INSTRUCTIONS**

- This form will be read by a machine
- Please use an HB pencil
- Rub out errors thoroughly
- Fill box with a single line e.g.
- Record your responses by marking the appropriate box (orange) for each MCQ
- Do NOT use ticks, crosses or circles

The main body of the sheet consists of 52 multiple-choice questions, numbered 1 to 52. Each question has five options labeled A, B, C, D, and E. The options are represented by small boxes with a person icon, and the correct answer for each question is marked with a red line.



## EBO: Processing EBOD

- Microsoft Excel database of EBOD Candidate Scores
  - Unconverted MCQ scores (provided by Speedwell)
  - Converted MCQ scores (1-10 scale)
  - Scanned Viva Voce Scores
- Calculation and ranking of Candidates
  - MCQ Award Winner (Alan Ridgway award)
  - Overall EBOD Award Winner




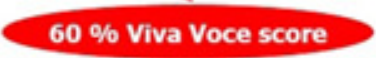
## Optical Mark Scanning

	A	B	C	D	E
1	T F D	T F D	T F D	T F D	T F D
2	T F D	T F D	T F D	T F D	T F D
3	T F D	T F D	T F D	T F D	T F D
4	T F D	T F D	T F D	T F D	T F D
5	T F D	T F D	T F D	T F D	T F D



$$EBOD_i = [0.4 \times MCQ_i] + [0.15 (VVA_i + VVB_i + VVC_i + VVD_i)]$$


  
40 % MCQ-score
 


  
60 % Viva Voce score

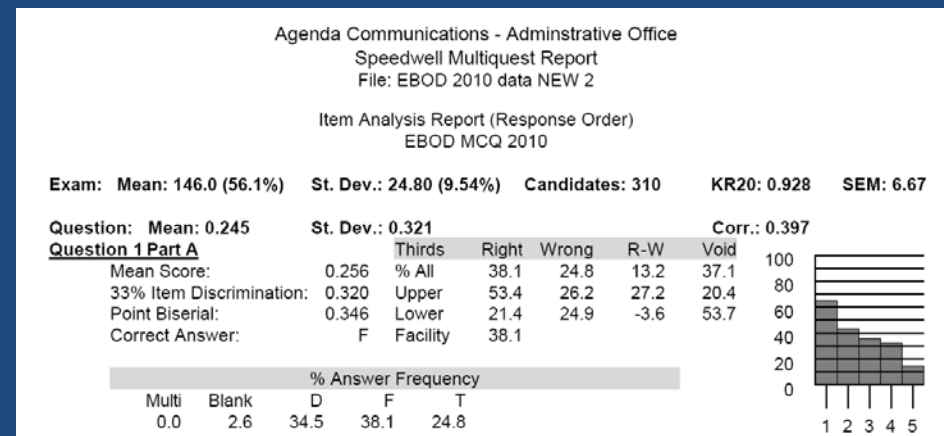


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## Statistical Evaluation of EBOD

- Speedwell Statistical Output
  - Mathematical validation of MCQs



- Secondary Statistical analysis (EBO)
  - Classical and Item-Response analysis techniques
  - Clinical validation of MCQs



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# Statistical Evaluation of EBOD

Agenda Communications - Administrative Office  
 Speedwell Multiquest Report  
 File: EBOD 2010 data NEW 2

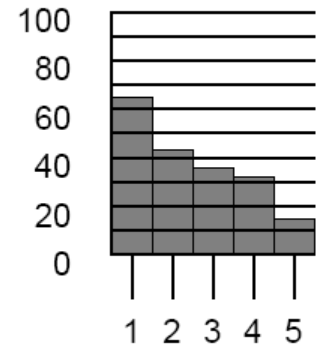
Item Analysis Report (Response Order)  
 EBOD MCQ 2010

**Exam: Mean: 146.0 (56.1%)    St. Dev.: 24.80 (9.54%)    Candidates: 310    KR20: 0.928    SEM: 6.67**

**Question: Mean: 0.245    St. Dev.: 0.321    Corr.: 0.397**

**Question 1 Part A**

		Thirds	Right	Wrong	R-W	Void
Mean Score:	0.256	% All	38.1	24.8	13.2	37.1
33% Item Discrimination:	0.320	Upper	53.4	26.2	27.2	20.4
Point Biserial:	0.346	Lower	21.4	24.9	-3.6	53.7
Correct Answer:	F	Facility	38.1			

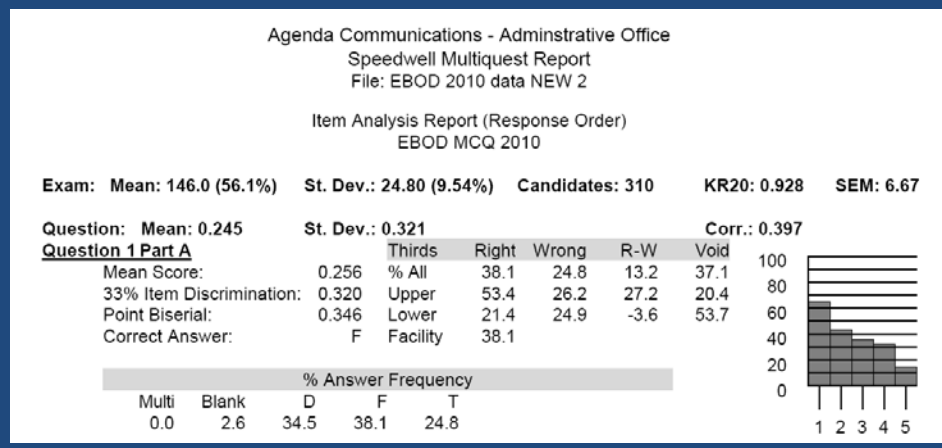


% Answer Frequency				
Multi	Blank	D	F	T
0.0	2.6	34.5	38.1	24.8



# Statistical Evaluation of EBOD

- Speedwell Statistical Output
  - Mathematical validation of MCQs



- Secondary Statistical analysis (EBO)
  - Classical and Item-Response analysis techniques
  - Clinical validation of MCQs



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## Statistical Evaluation EBOD 2010

- Remaining questions to be analysed after GA Tallin
  - 24 Failed candidates at EBOD 2010:
    - \* Residents: 12 (236 in total) or 5.1 % (2009: 8.2 %)
    - \* Specialists: 12 (74 in total) or 16.2 % (2009: 15.9 %)

2009	Fail	Pass	2010	Fail	Pass
Residents	18	202	Residents	12	224
Specialists	14	74	Specialists	12	62

\* Odds ratio 2009:  $0.47 (18 \times 74) / (14 \times 202)$

\* Odds ratio 2010:  $0.27 (12 \times 62) / (12 \times 224)$



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# Statistical Evaluation EBOD 2010

- Remaining questions to be analysed after GA Tallin
  - Comparison male/female at EBOD 2009 and EBOD 2010
    - \* No significant difference in scores for each gender have been identified for EBOD 2009
    - \* No significant difference in scores for each gender have been identified for EBOD 2010
    - \* Therefore, **the conclusion of negative marking not being discriminative towards the chances of female candidates to pass EBOD remains valid!**



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## EBO: MCQ banking

- Author's can submit MCQs through an online submitter module (designed by T. Kivelä)

The screenshot shows a Microsoft Internet Explorer browser window. The address bar contains the URL: [http://www.surveymonkey.com/s\\_pass.aspx?sm=xE8Dnto97v%2fr7XrMcqM4pg%3d%3d](http://www.surveymonkey.com/s_pass.aspx?sm=xE8Dnto97v%2fr7XrMcqM4pg%3d%3d). The browser title is "European Board of Ophthalmology : MCQ Submitter". The page content includes the text: "This survey requires a password. If you do not know the password, contact the author of this survey for further assistance." Below this text is a form with the label "Enter Password:" followed by a text input field. Below the input field is a button labeled "Submit Password".



## EBO: MCQ banking

- Submitted MCQs
  - Reading and enhancement (T. Kivelä)
  - Proofreading and, if needed, corrections (Experts for the 4 different topics)
- MCQ bank of enhanced, revised and corrected MCQs
  - Password secured
  - Limited access
  - **Confidentiality**

# MCQ banking by Speedwell (2011)

- Speedwell MCQ banking
  - Online submission system will be continued
  - Reading, enhancing and correcting within Speedwell QuestionBank
  - Online system (secure server) with access codes and limitations
  - Core programme already exists
  - Optimisation for Web browser access is currently under development
  - **Import of statistics of MCQs available**





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# Thank you for your attention

Faleminderit

Go Raibh Maith Agat

Vd'aka

TakGrazie

Gracias

Vielen Dank

Hvala

Děkuji

Thank You

Gratias Ago

Teşekkür ederim

Dankon

Grazzi

Tack

Aitäh

Takk

Hvala

Kiitos

Dziękuję

Köszönöm

Merci

Obrigado

Ευχαριστώ

Dankuwel

Mulțumesc

Спасибо