Online written exams with Orzone

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2017 Section of Surgery meeting in Copenhagen
Exam administration and organization – a simple procedure?

Office & Candidates
- Application process
- Eligibility criteria
- Additional documentation
- Payment
- Communication
- Visas

Questions & Exam
- Questions writing committee
- Creating questions bank
- Reviewing the questions
- Angoff scoring
- Selecting the questions
- Printing the MCQ sheets
- Exam
- Supervising

Results
- Marking of the MCQs
- Collecting of all data
- Final decision
- Archiving
Offline vs. online

**Offline system:**
- All documents stored locally
- Many versions of the same documents
- Many copying
- Increased possibilities for the errors
- Time consuming
- Costs

**Online system:**
- All documents stored centrally
- Only one version of the document
- No copying
- Minimum possibilities for the errors
- More efficient
- Lower costs
- Can be organized at multiple locations close to candidates at the same time
- Unsuccessful candidates do not travel and reduce the costs
- Prevents cheating
Why to use online system

- Questions bank
- Payment
- Office
- Candidates
- Questions writing committee
- Questions reviewing committee
- Examiners
- Exam site 1
- Exam site 2
- Archive
- Results
- Marking the exam
Why to use online system

Office

Candidates

Questions writing committee

Questions bank

Payment

Examiners

Questions reviewing committee

Exam site 1

Exam site 2

Archive

Results

Marking the exam
Exam administration, current status

- Collect demographic information on candidates
- Collect proof of eligibility
- Collect proof of payment
- Manage vetting of candidates
- Visa letters
- Communication with candidates

Office & Candidates

- Application process
- Eligibility criteria
- Additional documentation
- Payment
- Communication
- Visas
<table>
<thead>
<tr>
<th>Nr.</th>
<th>Name and surname</th>
<th>1st payment</th>
<th>Honorary diploma payment</th>
<th>Eligibility</th>
<th>2nd payment</th>
<th>Exam participation</th>
<th>Exam results</th>
<th>Allow re-exam</th>
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<th>Certificate delivered by CESMA</th>
<th>Documents</th>
<th>Requested language</th>
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<tr>
<td>1</td>
<td>Samiullah Khan</td>
<td>✔</td>
<td></td>
<td></td>
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- **New-Microsoft-Word-Document.docx** 16.5 KB
- **photo.jpg** 58.2 KB
- **application.pdf** 2.0 MB
- **cert.pdf** 10.6 MB
- **logbook1.pdf** 16.4 MB
Exam organization – still manually (offline)

Office & Candidates
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Questions & Exam
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- Final decision
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Results
What we will get with Orzone?

- Orzone system is a complex system which covers all aspects of exam administration, setting-up, managing, monitoring and executing.

- Currently, administrative part is covered by Squiz company

- At this stage, we decided to implement Orzone system for supporting of our MCQs
MCQ supported by online system

Questions writing
MCQ supported by online system

Questions reviewing
MCQ supported by online system

Questions tagging
MCQ supported by online system

Questions selecting
MCQ supported by online system

Questions translation
MCQ supported by online system

Translation reviewing
ORTRAC - software

Surveillance

Registration

Examination

Examination

Examination
Instruct candidates to arrive well on time before exam start. 30 – 60 minutes prior is appropriate, depending on volume.

Candidates bring their own laptops.

Candidates check in with photo ID. Phones and other connected devices should not be allowed during the exam.

Provide Wi-Fi network.

Connect with Orzone.

Invigilators should be positioned behind the candidates, giving them an overview of all screens.

Candidates should be instructed not to open any other windows than the Ortrac interface. For assistance, bathroom visits, etc., candidates should raise their hand and await an invigilator.
Cheating is almost impossible

In “catabolic” surgical patients, which of the following changes in body composition do not occur?

Correct Option

- Lean body mass increases.
- Total body water increases
- Adipose tissue decreases
- Body weight decreases
## Diploma Exam 2016

### Gothenburg

<table>
<thead>
<tr>
<th>Candidate</th>
<th>Status</th>
<th>Progress</th>
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<tbody>
<tr>
<td></td>
<td>In progress</td>
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</table>

### London

<table>
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<tr>
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<tbody>
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<tr>
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<tr>
<td></td>
<td>In progress</td>
<td></td>
</tr>
<tr>
<td></td>
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</table>

### Malta

<table>
<thead>
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<tbody>
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<td>Absent</td>
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<tr>
<td></td>
<td>In progress</td>
<td></td>
</tr>
<tr>
<td></td>
<td>In progress</td>
<td></td>
</tr>
</tbody>
</table>

**Overview**
- First start: 10:00
- Last finish: 16:00
- Duration: 60 min
- Candidates: 19

**Centres**
- Gothenburg: 1
  - 1 in progress
  - 0 finished
- London: 15
  - 15 in progress
  - 2 finished
- Malta: 2
  - 2 in progress
  - 0 finished

**Refresh rate:** 5 min
Immediate Excel results
## Individual reports

### European Board Examination in 2016 Part A Exam

- **Candidate Name:** [Redacted]
- **Centre:** Florence
- **Stage of Training:** Specialist training completed

#### Results (Correct / Total)

<table>
<thead>
<tr>
<th></th>
<th>&quot;Best of 5&quot;</th>
<th>&quot;True or False&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 / 42</td>
<td>280 / 381</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Candidate's % Score</th>
<th>Average % at This Stage of Training (100 Candidates)</th>
<th>Average % Score of All Candidates (129 Candidates)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GI and Abdo</td>
<td>75.00</td>
<td>68.67</td>
<td>68.71</td>
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<tr>
<td>Neuro and psych</td>
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<td>Trauma and orthopaedic/MSK</td>
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<td>Cardiorespiratory</td>
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<td>Renal, urology, Obs and gynae</td>
<td>61.54</td>
<td>62.15</td>
<td>62.13</td>
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<tr>
<td>Derma., Eyes, ENT, General systemic</td>
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<td>58.58</td>
<td>59.15</td>
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<tr>
<td>Extremes of age</td>
<td>62.50</td>
<td>65.69</td>
<td>66.36</td>
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<tr>
<td>Ethical and organisation</td>
<td>66.67</td>
<td>68.50</td>
<td>69.51</td>
</tr>
<tr>
<td>Pre-hospital, toxicology, environmental</td>
<td>61.29</td>
<td>67.74</td>
<td>68.29</td>
</tr>
<tr>
<td>Infectious and haematology</td>
<td>82.86</td>
<td>75.26</td>
<td>75.13</td>
</tr>
</tbody>
</table>
What we still need for full implementation

- Angoff scoring
- Exporting questions
- Additional editing possibilities
- Solving conflicts among reviewers
Conclusion

- Online system is a leap forward
- Saves money and time
- Increases the number of the candidates (hopefully)
- Currently considered only for MCQs
- In future, will be implemented also for the oral part of the exam