What is UCAN?

- Started in 2006 in Heidelberg, Munich & Berlin
- Non-profit, academic organization
- Only the costs are shared annually
- No sales taxes

Objectives:
- Common exchange in the field of assessment
- Quality assurance, establishment of standards
- Optimization of resources
- Support innovative formats
- Further development & research
<table>
<thead>
<tr>
<th>Country</th>
<th>Partners</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germany</td>
<td>20 medical schools</td>
</tr>
<tr>
<td></td>
<td>8 dental schools</td>
</tr>
<tr>
<td></td>
<td>9 medical associations</td>
</tr>
<tr>
<td>Switzerland</td>
<td>1 medical school</td>
</tr>
<tr>
<td></td>
<td>1 university of applied sciences</td>
</tr>
<tr>
<td>Sweden</td>
<td>1 medical school</td>
</tr>
<tr>
<td>Australia</td>
<td>4 medical schools</td>
</tr>
<tr>
<td>Europe</td>
<td>1 medical school</td>
</tr>
<tr>
<td>Netherlands</td>
<td>1 medical school</td>
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<tr>
<td></td>
<td>3 midwifery academies (PT)</td>
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<tr>
<td>Austria</td>
<td>2 medical schools</td>
</tr>
<tr>
<td></td>
<td>1 dental school</td>
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<tr>
<td></td>
<td>1 nursing science school</td>
</tr>
<tr>
<td>Sweden</td>
<td>4 medical schools</td>
</tr>
</tbody>
</table>
UCAN: the tools

- **ItemManagementSystem:**
  - Question- and Item management & exchange
  - Assessment management
  - Review system

- Document reader system: Klaus
- Computer-based assessment: CAMPUS
- Tablet-based assessment: tOSCE, soon: tEXAM & tORAL

- Examinator:
  - Grade calculation
  - Statistical analysis
Web-based Item Management System

<table>
<thead>
<tr>
<th>Title</th>
<th>Type</th>
<th>Comm</th>
<th>Review</th>
<th>Difficulty</th>
<th>Discrimination</th>
<th>Section</th>
<th>Actuality</th>
<th>Author</th>
<th>Authorization</th>
<th>Entity</th>
</tr>
</thead>
</table>
A 28 year old male refugee from Africa presents with acute severe breathlessness. On examination he has oedema of both ankles. His JVP is elevated. His pulse is irregular and his blood pressure is 108/82 mmHg. His apex beat is tapping in nature. The first heart sound is loud, and there is a low pitched mid diastolic murmur heard best over the apex, with radiation to the axilla. He is given warfarin to prevent embolism from the heart.

What cardiac structure would be the most likely source of embolism?

(A) Left atrium  (B) Left ventricle  (C) Mitral valve vegetation  (D) Right atrium  (E) Right ventricle
Integrated tools

Desktop examinations

Examination via tablets (MC, OSCE, oral)

Document-reader-system
Examinator² for quality assurance: analysis & grading

Short report: The examination MCQ for Nizza 2013 written on 6/27/13 contains 100 questions, with a maximal point count of 100.0. The average point count is 57.4 (Max: 88.0, Min: 0.0, standard deviation 30.88). The average grade is 3.6 (Max: 5.0, Min: 2.0, standard deviation 1.11). The passing threshold of 60.0 has been calculated by the rule 60 Percent. Cronbach’s Alpha for this examination is 0.99. From the 62 candidates, who have been evaluated with the rule 60 Percent has 42 (67.7%) passed the examination. 20 (32.3%) had not enough points to pass.
Quality assurance: Examinator²
detail view of an item

Type: Type A
Author: Albegger, Klaus

Which class of drugs has xerostomia as a recognised side-effect?

- A: H2 (histamine) blockers (1)
- B: Antidepressants (1)
- C: Alpha-blockers (1)
- D: ACE (angiotensin-converting enzyme) inhibitors (1)
- E: NSAID (non steroidal anti-inflammatory drugs) (1)

Difficulty (level of complexity)

Discriminative power of questions
A 47-year old patient presents with nasal obstruction, facial pain and nasal discharge. Your clinical diagnosis is acute rhinosinusitis. What would be the strongest argument for you to prescribe antibiotics?

(A) □ Duration of symptoms for more than 3 days (1)
(B) □ Recurrent episodes of rhinosinusitis in past medical history (1)
(C) □ Coexisting chronic obstructive pulmonary disease (1)
(D) □ Discharge only from one side of the nostril (1)
(E) □ Associated loss of smell (1)
Actual stored: 175,921
UCAN: performed examinations per year

Performed till now: 9,359

(approx. 2,000,000 examinees)
European Boards: performed exams

- 07.04.2013 EBE-ORL: Written exam in Nizza, 50 examinees
- 07.10.2013 EBE-ORL: Written exam in Vienna, 41 examinees
- 15.11.2013 ESICM: Oral exam in 7 countries, 234 examinees
- 11.04.2014 EBE-ORL: Written exam in Antalya, 123 examinees
- 06.05.2014 ESICM: Oral exam with tablets in London, Copenhagen, Vienna, Prague, Amsterdam, Barcelona, Zurich, 214 examinees