# MRCGP: Statistics 2010-11 

## Annual Report (August 2010 - July 2011) on the results of the MRCGP AKT and CSA Assessments

## INTRODUCTION

This Report relates to the formal summative MRCGP assessments conducted in the academical year 2010-11. It is thus consistent with the new GMC practice, who request the numerical data sent to them by Royal Colleges and other postgraduate bodies in their Annual Statistical Reports in respect of their examinations for the same period. The Report presents the statistics that summarise the outcomes of all the diets of the MRCGP examinations during that period - the Applied Knowledge Test (AKT - three diets) and the Clinical Skills Assessment (CSA - four diets).

May 2010 marked the end of the first three years of the CSA, introduced in Autumn 2007. Over that period, the CSA used a single standard-setting approach, based on the number of cases passed, or ' n 2 P '. From August 2010, a new method has been introduced. This is the first report based on the new system - details being described in the pages which follow.

The Report first presents an updated summary of both of these assessments and their standard-setting procedures, to orientate readers who may be unfamiliar with these. Full background information on the MRCGP, the AKT and the CSA (and also the formative Workplace-based Assessment component) may be found on the College's website. There then follows a set of tables, first for the AKT and then for the CSA. These give information on the candidature and the attempts at the test, for each of them:

- Summary of Demographic Information: Source of Primary Medical Qualification, Background by Deanery
- Main Results: Overall and by Exam Diet and Attempt
- Results by Individual demographics (candidates on first attempt)
- Detailed Results by Training Deanery
- AKT mean sub-component scores, by candidate year of training
- CSA feedback statements for all candidates: aggregate summary

This report is descriptive, only, and neither interpretative nor discursive. Data are presented without psychometric comment other than that which follows and at the end of the report. Candidates self-report their demographic variables, but wherever possible these are checked against the GMC's List of Registered Medical practitioners. The 'attempt' is checked against the College's records.

This Report has been developed following comments from members of the College's Assessment Committee, especially the Deanery representatives. Accordingly, it seeks to present in more detail and with greater clarity the variations amongst Deaneries, as quite generally requested. More charts of greater variety are presented. Results by candidate background have been presented more thoughtfully. And candidates from the various London schools have been separated.

NB Caution regarding interactions between variables! There are many significant differences between sub-groups on their performance on both the tests reported, for example by gender and country of primary medical training. Variables may well interact with others, to the confusion of the unwary. The detailed results should thus be interpreted carefully.

Acknowledgements: I am very grateful to the two Clinical Leads (Carol Blow, AKT; Adrian Freeman CSA) for their advice and support in preparing this report. They wrote the introductory comments on their respective components.
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1: Summary of the Assessments and their Standard-Setting Procedures

## The MRCGP and its Function

The MRCGP comprises three sets of assessment procedures whose combined summative function is to assure the Deaneries, the College and the GMC of the competence of exiting trainee General Practitioners (GPs) across a broad and carefully-defined three year (occasionally, four) full-time training curriculum. Satisfactory completion of the three assessment components of the MRCGP renders a trainee (GP Specialist Registrar) eligible to apply both for a Certificate of Completion of Training (CCT) from the GMC (and thus to proceed with her or his career) and for Membership of the Royal College (which will inter alia support the doctor's continuing professional development and probable re-accreditation).

The MRCGP's three assessment components are the following, each of which must be separately passed:
a. Applied Knowledge Test (multi-choice computer-presented 'paper', available in test centres throughout the UK)
b. Clinical Skills Assessment (a formal test of clinical and consulting skills, taken in a single assessment centre)
c. Workplace-based Assessments delivered throughout the three-year training programme by Clinical Supervisors, Trainers and others

The curriculum, the training and the assessments are based on practice in the UK National Health Service. Entry to the formal assessments is only permissible to doctors undergoing GP training in the UK state health care system. Accordingly, no external candidates take these, as happens in certain other Royal Colleges. (The College has other arrangements to support GPs practising in other countries and who seek affiliation with it or Membership of it through the 'MRCGP [International]', see the website.)

Note that the workplace-based assessments, being essentially formative, with candidate performance and development on them being reviewed towards a determination of progression annually by the Deaneries and not the College, are not covered by this report. Please also note that the report, for convenience of comprehension, reports on the 'Stages' of training as 'Years': for most trainees, the two are operationally synonymous, but for part-time trainees, of course, the 'Stages' will be longer. Currently, trainees studying less than full time are not separately identified in the annual report.

## The Applied Knowledge Test (AKT)

The multi-choice Applied Knowledge Test is a 3-hr 200-item computer-delivered and marked assessment which has been able to be taken in any of the three years of training (Year $1=S T_{1}$ etc), although for candidates who commenced training from August 2010 onwards, the AKT may only be taken in the ST2,3 and additional 4th year. Offered three times a year, the AKT is delivered by computer in professional testing centres around the UK run by Pearson VUE.

The test's 200 items are in four formats: single best answer (including images and graphics), extended matching questions, completion of algorithms and a small number of free text answers. A test specification is used to ensure adequate sampling across the curriculum. $80 \%$ of the items are on clinical medicine, and research/evidence-based practice and legal/ethical/ administration issues are each represented by $10 \%$ of the questions. Irrespective of the question format, candidates are awarded one mark for each item answered correctly. Marks are neither deducted for incorrect answers nor for failure to answer.

The standard for the AKT is set for the test using a modification of the Angoff procedure, where a group of judges periodically estimates the performance of a notional 'just good enough to pass' candidate on each test item. The standard takes account of the 'guessing factor' always present in multi-choice tests. In order to ensure that standards are set at appropriate and realistic levels, a patient representative, recent trainees, and representatives of bodies with a stake in the outcome of the examination (including the training community) are invited to act either as judges or observers, as appropriate, in the standard-setting process. This standard is maintained between 'Angoffs', by the use of test equating using sets of items with known performance characteristics.

A 'just passing score' (JPS) is accordingly determined for the test as a whole, and a statistical review may cause the removal of one or two poorly-performing test items on any diet. The measurement error of the resultant test is then calculated, and a passing standard ('pass-mark') set, taking account of this measurement error, as is usual in high stakes testing. The accuracy of the AKT is estimated by calculating Cronbach's alpha (reliability), together with the measurement error. Candidates are then provided with their results, and their scores on the test as a whole and on its three sub-sections.

It should be noted that, as the pass-mark varies slightly between diets because of small changes in the overall difficulty of the paper, raw or percentage scores need to be adjusted to a common pass-mark (here, zero) to permit comparability.

## The Clinical Skills Assessment (CSA)

The Clinical Skills Assessment is an OSCE-style assessment using simulated patients that may be taken only in the final year of training (Year $3=\mathrm{ST}_{3}$, or the fourth year of an extended training programme). During the period covered by this report, the CSA comprised 13 cases or 'stations', and it was delivered in a purpose-built College assessment centre (in Croydon, South London). Three circuits can run simultaneously on the three floors of the centre.

A case is depicted by a role player, and candidate performance assessed by an examiner who accompanies the roleplayer for the day. Each case lasts 10 minutes (plus two minutes marking/changeover time). Candidates have their own 'consulting room', and the role players and assessors move around the circuit.

Cases, written by dedicated writers who are practising GPs, present typical clinical scenarios that a UK GP will encounter. Each case is mapped on to the curriculum with intended learning outcomes, and a blueprint is used to guide case selection-a complex procedure as the cases necessarily change each day for reasons of security and fairness, yet each day's 'palette' must meet the blueprint's specifications and be equivalently challenging.

This report is based on the first year of the new standard setting mechanism: this uses a borderline group method, as recommended to the College by the Regulator.

Each case is marked on three domains and also with an overall global judgement. The domains are: Data Gathering, Examination and Clinical Skills; Clinical Management Skills; and Interpersonal Skills. Each domain score and global judgement is marked as: Clear Pass - Pass - Fail - Clear Fail. For standard-setting purposes only, the examiners also provide a mark to indicate the certainty of their judgement on that case, in particular if they fell that overall the candidate may be sitting on the borderline between pass and fail.

The domain scores are given a numerical equivalent and those domain scores over the 13 cases are summated to give a final score (which will be between zero and 117). The "cut score" - the point between pass and fail - is established by the borderline group method. The final pass score is an adjustment of that score to take account of measurement error, as in the AKT, with the level being confirmed by an adjudicating group which includes recent trainees, lay representatives, and key stakeholders from the training community.

The overall standard of the assessment is set by ensuring both that the cases are at an appropriate level of difficulty and challenge and that the examiners are adjudging passing performance on any case at the same, agreed level - appropriate for independent and safe practice as a GP in the NHS. A variety of support mechanisms are in place: calibration exercises at the beginning of each day of the CSA; initial and on-going training of examiners; and an annual two-day examiners workshop.

The reliability of the CSA is estimated by calculating Cronbach's alpha using the numerical scores and the Standard Error of Measurement (SEm). Because of daily case and examiner differences, these statistics require to be estimated separately each day, thus on a maximum of 78 candidates. And because of varying candidate numbers and daily variations in the range of candidate ability, the statistic varies, too.

Throughout this report, CSA outcomes used include the result (pass/fail) and scores adjusted to a common passmark (zero).

## General Notes: Conventions in Charts

Tables are accompanied where possible by charts, to assist those who prefer visual rather than numerical summaries of data. Where space prevents the charts being of adequate size to read, (for example) the axis scales, the relevant table should be inspected for this detail. The colour convention adopted for the charts is as follows:

BARS etc representing passing candidates: BLUE
BARS etc representing failing candidates: RED
Charts which do not distinguish between passing and failing candidates: GREY
A RED LINE on a histogram denotes the passing standard
A GREEN LINE on a histogram denotes the mean score for the group whose performance is represented
Certain charts (histograms) show contrasting distributions of candidates where numbers in a single group are small. To permit visibility of these small groups, the Y -axes of the histograms have been presented in a log, as opposed to a linear, scale. The relevant charts have a small label to alert the reader, as shown here. On NB: Log scale the charts generally, groups representing single candidates have been removed, where appropriate, to avoid embarrassment.

## Note regarding the Interpretation of the AKT statistics

Some candidates appear twice (447) or three times (81) within this annual database on the AKT, because of retakes. Except in the Summary of Demographic Information, the statistics "for all candidates" aggregate all 3312 candidates' 3840 attempts in this period. However, where the tables present comparisons between candidates on the basis of demographic variables (gender, ethnicity, the origin of candidates' primary medical qualifications, training deanery), they mostly do so on the basis of 'first attempts' only: otherwise re-sitters will bias the results. The groups upon which each table is based are made clear in its title.

Particularly observant readers may notice that figures in this report do not always concur precisely with those given in reports of AKT examinations on the College website. The latter normally show totals and pass rates for all AKT candidates, including GP 'returners' and those completing the 'old' MRCGP and summative assessment. The figures in this report refer only to examination candidates 'in training' and eligible for current MRCGP.

## Note regarding the interpretation of the CSA statistics

Two databases are constructed for the 2010 examination period: one is candidate-based, including all information about a candidate-attempt at the examination, and is designed to provide generic reporting functionality towards requirements such as this report; the other is candidate-consultation based, and intended to provide QA and developmental information regarding the cases and the examiners: it has been used here only to provide the information on 'feedback statements' in the final table of the report.

Some candidates appear twice (602), three times (131) or even four times (37) within this annual database on the CSA, because of retakes. Except in the Summary of Demographic Information, the statistics "for all candidates" aggregate all 2,820 candidates' 3,590 attempts in this period.

## Data Inconsistencies: Caution

Minor data inconsistencies result from a variety of causes, inevitably in an undertaking of this complexity that combines 'examination' data with background 'personnel' information from a number of computing databases. For example:

- Most of the candidates' background data is self-reported on registration for each assessment. It is thus subject to entry error, though major data fields have been checked by reference to the GMC Register (version at March 2011)
- For the same reason, data are occasionally missing
- Candidates' circumstances change - for example, they may move from one training region to another, within the year, or between part-time and full-time training
- Updatings to the databases, internally in the College and from the individual Deaneries, are inevitably intermittent

However, the College would as always appreciate learning of any serious apparent errors or omissions in the data reported. Please alert the compiler at rew5@cam.ac.uk

## A: Summary of Demographic Information on AKT Candidates

3312 candidates made a total of 3840 attempts at the AKT during 2010-11. The tables below show the origin of the 3312 candidates, by UK medical school or non-UK country of primary medical qualification-and the percentage from each out of the total of that part of the candidature. Overleaf, the background demographic characteristics of the 3312 are shown, by training Deanery. Other tables report on the attempts.

## 1. Source of Primary Medical Qualification

Graduate of UK, EEA or Rest of World

|  | Frequency | Percent |
| :--- | ---: | ---: |
| UK | 2278 | 68.8 |
| EEA | 110 | 3.3 |
| RoW | 924 | 27.9 |
| Total | 3312 | 100.0 |

Graduates of UK Medical schools and qualifications of *non-University Licensing Bodies

|  | Frequency | Percent |
| :--- | ---: | ---: |
| " Apothecaries Qual | 3 | .1 |
| * English Conjoint Qual | 1 | .0 |
| Aberdeen | 77 | 3.4 |
| Belfast | 74 | 3.2 |
| Birmingham | 122 | 5.4 |
| Bristol | 65 | 2.9 |
| Cambridge | 41 | 1.8 |
| Dundee | 74 | 3.2 |
| East Anglia | 10 | .4 |
| Edinburgh | 57 | 2.5 |
| Glasgow | 113 | 5.0 |
| Leeds | 87 | 3.8 |
| Leicester | 87 | 3.8 |
| Liverpool | 117 | 5.1 |
| London - Imperial College | 94 | 4.1 |
| London - King's College | 145 | 6.4 |
| London - Queen Mary | 127 | 5.6 |
| London - St George's | 95 | 4.2 |
| London - University College | 125 | 5.5 |
| London - Unreported School | 13 | .6 |
| Manchester | 169 | 7.4 |
| Newcastle | 100 | 4.4 |
| Nottingham | 85 | 3.7 |
| Oxford | 29 | 1.3 |
| Peninsula | 4 | .2 |
| Sheffield | 129 | 5.7 |
| Southampton | 77 | 3.4 |
| Wales/Cardiff | 87 | 3.8 |
| Warwick | 71 | 3.1 |
| Total | 2278 | 100.0 |


|  | Frequency | Percent |
| :---: | :---: | :---: |
| Afghanistan | 2 | . 2 |
| Albania | 2 | . 2 |
| Algeria | 3 | . 3 |
| Argentina | 1 | . 1 |
| Armenia | 3 | . 3 |
| Australia | 4 | . 4 |
| Austria | 3 | . 3 |
| Bangladesh | 18 | 1.7 |
| Belarus | 4 | . 4 |
| Belgium | 1 | . 1 |
| Bolivia | 1 | . 1 |
| Brazil | 2 | . 2 |
| Bulgaria | 4 | . 4 |
| Burundi | 1 | . 1 |
| Cayman Islands | 1 | . 1 |
| China | 3 | . 3 |
| Colombia | 2 | . 2 |
| Congo, Dem Rep | 1 | . 1 |
| Czech Republic | 30 | 2.9 |
| Denmark | 1 | . 1 |
| Egypt | 13 | 1.3 |
| Georgia | 1 | . 1 |
| Germany | 14 | 1.4 |
| Ghana | 3 | . 3 |
| Grenada | 2 | . 2 |
| Guyana | 1 | . 1 |
| Hungary | 2 | . 2 |
| India | 330 | 31.9 |
| Iran | 11 | 1.1 |
| Iraq | 35 | 3.4 |
| Ireland | 13 | 1.3 |
| Israel | 1 | . 1 |
| Italy | 1 | . 1 |
| Jamaica | 15 | 1.5 |
| Jordan | 2 | . 2 |
| Latvia | 3 | . 3 |
| Libya | 4 | . 4 |
| Macedonia | 1 | . 1 |
| Malawi | 1 | . 1 |
| Malaysia | 1 | . 1 |
| Malta | 1 | . 1 |
| Moldova | 1 | . 1 |
| Myanmar | 7 | . 7 |
| Nepal | 10 | 1.0 |
| Netherlands | 1 | . 1 |
| Netherlands Antilles | 1 | . 1 |
| New Zealand | 2 | . 2 |
| Nigeria | 91 | 8.8 |
| Oman | 1 | . 1 |
| Pakistan | 233 | 22.5 |
| Philippines | 4 | . 4 |
| Poland | 20 | 1.9 |
| Romania | 11 | 1.1 |
| Russian Federation | 27 | 2.6 |
| Saint Kitts And Nevis | 1 | . 1 |
| Saint Lucia | 1 | . 1 |
| Serbia | 4 | . 4 |
| Slovakia | 4 | . 4 |
| South Africa | 13 | 1.3 |
| Spain | 1 | . 1 |
| Sri Lanka | 21 | 2.0 |
| Sudan | 2 | . 2 |
| Syria | 5 | . 5 |
| Tanzania | 1 | . 1 |
| Turkey | 4 | . 4 |
| Uganda | 1 | . 1 |
| Ukraine | 17 | 1.6 |
| United States | 1 | . 1 |
| Uzbekistan | 1 | . 1 |
| Zambia | 1 | . 1 |
| Zimbabwe | 5 | . 5 |
| Total | 1034 | 100.0 |

## 2. AKT Candidates' Gender, Ethnic Group and whether UK or international graduates, by Training Deanery

| Deanery | Gender |  | Ethnic Group |  |  |  |  |  | UK/non-UK Graduate |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | White | S Asian ('Asian') | Black | Chinese / SE Asian | Mixed Race/Other | Not Known | UK Graduate | Non-UK Graduate |  |
| Armed Forces (Defence) | 21 | 7 | 25 | 1 | 1 | 0 | 1 | 0 | 27 | 1 | 28 |
|  | 75.0\% | 25.0\% | 89.3\% | 3.6\% | 3.6\% | .0\% | 3.6\% | .0\% | 96.4\% | 3.6\% | 100.0\% |
| East Midlands | 113 | 104 | 73 | 118 | 17 | 2 | 7 | o | 121 | 96 | 217 |
|  | 52.1\% | 47.9\% | 33.6\% | 54.4\% | 7.8\% | .9\% | 3.2\% | .0\% | 55.8\% | 44.2\% | 100.0\% |
| East of England | 100 | 159 | 83 | 128 | 31 | 6 | 10 | 1 | 136 | 123 | 259 |
|  | 38.6\% | 61.4\% | 32.0\% | 49.4\% | 12.0\% | 2.3\% | 3.9\% | .4\% | 52.5\% | 47.5\% | 100.0\% |
| East Scotland | 13 | 17 | 22 | 7 | 1 | 0 | - | o | 25 | 5 | 30 |
|  | 43.3\% | 56.7\% | 73.3\% | 23.3\% | 3.3\% | .0\% | .0\% | .0\% | 83.3\% | 16.7\% | 100.0\% |
| Kent, Surrey, Sussex | 142 | 165 | 101 | 137 | 36 | 9 | 21 | 3 | 152 | 155 | 307 |
|  | 46.3\% | 53.7\% | 32.9\% | 44.6\% | 11.7\% | 2.9\% | 6.8\% | 1.0\% | 49.5\% | 50.5\% | 100.0\% |
| London | 116 | 253 | 151 | 161 | 21 | 12 | 22 | 2 | 313 | 56 | 369 |
|  | 31.4\% | 68.6\% | 40.9\% | 43.6\% | 5.7\% | 3.3\% | 6.0\% | .5\% | 84.8\% | 15.2\% | 100.0\% |
| Mersey | 70 | 99 | 81 | 72 | 5 | 2 | 9 | $\bigcirc$ | 103 | 66 | 169 |
|  | 41.4\% | 58.6\% | 47.9\% | 42.6\% | 3.0\% | 1.2\% | 5.3\% | .0\% | 60.9\% | 39.1\% | 100.0\% |
| North Scotland | 21 | 27 | 35 | 9 | 2 | o | 2 | - | 39 | 9 | 48 |
|  | 43.8\% | 56.3\% | 72.9\% | 18.8\% | 4.2\% | .0\% | 4.2\% | .0\% | 81.3\% | 18.8\% | 100.0\% |
| North Western | 134 | 144 | 118 | 134 | 12 | 4 | 10 | o | 199 | 79 | 278 |
|  | 48.2\% | 51.8\% | 42.4\% | 48.2\% | 4.3\% | 1.4\% | 3.6\% | .0\% | 71.6\% | 28.4\% | 100.0\% |
| Northern | 54 | 78 | 87 | 36 | - | 4 | 5 | o | 89 | 43 | 132 |
|  | 40.9\% | 59.1\% | 65.9\% | 27.3\% | .0\% | 3.0\% | 3.8\% | .0\% | 67.4\% | 32.6\% | 100.0\% |
| Northern Ireland | 23 | 47 | 67 | 2 | - | $\bigcirc$ | - | 1 | 67 | 3 | 70 |
|  | 32.9\% | 67.1\% | 95.7\% | 2.9\% | .0\% | .0\% | .0\% | 1.4\% | 95.7\% | 4.3\% | 100.0\% |
| Oxford | 49 | 83 | 74 | 47 | 3 | 3 | 5 | 0 | 106 | 26 | 132 |
|  | 37.1\% | 62.9\% | 56.1\% | 35.6\% | 2.3\% | 2.3\% | 3.8\% | . $0 \%$ | 80.3\% | 19.7\% | 100.0\% |
| Severn | 46 | 86 | 103 | 18 | 2 | 2 | 7 | o | 115 | 17 | 132 |
|  | 34.8\% | 65.2\% | 78.0\% | 13.6\% | 1.5\% | 1.5\% | 5.3\% | .0\% | 87.1\% | 12.9\% | 100.0\% |
| South East Scotland | 24 | 37 | 42 | 11 | 3 | 1 | 4 | - | 52 | 9 | 61 |
|  | 39.3\% | 60.7\% | 68.9\% | 18.0\% | 4.9\% | 1.6\% | 6.6\% | .0\% | 85.2\% | 14.8\% | 100.0\% |
| South West Peninsula | 30 | 38 | 53 | 8 | 1 | $\bigcirc$ | 5 | 1 | 53 | 15 | 68 |
|  | 44.1\% | 55.9\% | 77.9\% | 11.8\% | 1.5\% | .0\% | 7.4\% | 1.5\% | 77.9\% | 22.1\% | 100.0\% |
| Wales | 58 | 66 | 76 | 42 | 。 | 1 | 5 | o | 89 | 35 | 124 |
|  | 46.8\% | 53.2\% | 61.3\% | 33.9\% | .0\% | .8\% | 4.0\% | .0\% | 71.8\% | 28.2\% | 100.0\% |
| Wessex | 55 | 75 | 78 | 34 | 5 | 4 | 8 | 1 | 94 | 36 | 130 |
|  | 42.3\% | 57.7\% | 60.0\% | 26.2\% | 3.8\% | 3.1\% | 6.2\% | .8\% | 72.3\% | 27.7\% | 100.0\% |
| West Midlands | 171 | 147 | 96 | 179 | 16 | 5 | 21 | 1 | 183 | 135 | 318 |
|  | 53.8\% | 46.2\% | 30.2\% | 56.3\% | 5.0\% | 1.6\% | 6.6\% | . $3 \%$ | 57.5\% | 42.5\% | 100.0\% |
| West Scotland | 64 | 109 | 126 | 39 | 2 | 3 | 2 | 1 | 145 | 28 | 173 |
|  | 37.0\% | 63.0\% | 72.8\% | 22.5\% | 1.2\% | 1.7\% | 1.2\% | .6\% | 83.8\% | 16.2\% | 100.0\% |
| Yorkshire \& The Humber | 119 | 148 | 126 | 117 | 4 | 2 | 14 | 4 | 170 | 97 | 267 |
|  | 44.6\% | 55.4\% | 47.2\% | 43.8\% | 1.5\% | .7\% | 5.2\% | 1.5\% | 63.7\% | 36.3\% | 100.0\% |
| Total | 1423 | 1889 | 1617 | 1300 | 162 | 60 | 158 | 15 | 2278 | 1034 | 3312 |
|  | 43.0\% | 57.0\% | 48.8\% | 39.3\% | 4.9\% | 1.8\% | 4.8\% | .5\% | 68.8\% | 31.2\% | 100.0\% |

B: Main Results: Overall, \& by Exam Diet, Year \& Attempt (All Candidates)

## 1. AKT Result and scores, overall (all candidates)

The pass-mark varies by diet (see introduction): marks have been re-scaled in this report to a pass-mark of zero

|  | Frequency | Percent |
| :--- | ---: | ---: |
| Fail | 1033 | 26.9 |
| Pass | 2807 | 73.1 |



2. AKT Result and scores, by AKT Diet and Stage of Training (all candidates)

Note: A rule change to the effect that the AKT must be taken after ST1 explains the small number of ST1 candidates

| AKT Result by Diet |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: |
|  |  | Result |  |  |
|  | Fail | Pass | Total |  |
|  | Oct 2010 | 384 | 1001 | 1385 |
|  |  | $27.7 \%$ | $72.3 \%$ | $100.0 \%$ |
|  | Jan 2011 | 240 | 724 | 964 |
|  |  | $24.9 \%$ | $75.1 \%$ | $100.0 \%$ |
|  | May 2011 | 409 | 1082 | 1491 |
|  |  | $27.4 \%$ | $72.6 \%$ | $100.0 \%$ |
| Total |  | 1033 | 2807 | 3840 |
|  |  | $26.9 \%$ | $73.1 \%$ | $100.0 \%$ |



AKT Result by Stage of Training

|  |  | Result |  |  |
| :--- | :--- | ---: | ---: | ---: |
|  |  | Fail | Pass | Total |
| Stage | ST1 | 3 | 14 | 17 |
|  |  | $17.6 \%$ | $82.4 \%$ | $100.0 \%$ |
|  | ST2 | 509 | 1481 | 1990 |
|  |  | $25.6 \%$ | $74.4 \%$ | $100.0 \%$ |
|  | ST3 | 521 | 1312 | 1833 |
|  |  | $28.4 \%$ | $71.6 \%$ | $100.0 \%$ |
| Total |  | 1033 | 2807 | 3840 |
|  |  | $26.9 \%$ | $73.1 \%$ | $100.0 \%$ |



3. Result and scores, by attempt at the AKT: all graduates, and separated by source of primary medical qualification, UK/non-UK (all candidates)




4. Score on AKT first attempt by source of PMQ, UK and non-UK Graduates compared


## 5. Candidates with Disabilities: prevalence overall and by attempt; outcomes

UK Equality Legislation permits examination candidates with disabilities to request reasonable accommodations in regard to their disabilities, without affecting the standard of the examination. The tables below record the prevalence of such candidates in attempts at the AKT in 2010-11, together with the results of the assessments.

There were 71 disabled candidate-attempts at the AKT (see first table below). The second, larger table, shows the outcomes for these candidates.

The overall pass rate for candidates reporting disabilities was $79 \%$ on first attempt, $55 \%$ on subsequent attempts, combined.

| Candidates with Disabilities |  |  |
| :--- | :---: | :---: |
| Disability | $\mathbf{N}$ <br> attempts | Percent of <br> all <br> candiates |
| Back pain and difficulty in prolonged sitting | 3 | .1 |
| Diabetic | 2 | .1 |
| Dyscalculia | 1 | .0 |
| Dyslexia | 58 | 1.5 |
| Dyslexia \& Dyscalculia | 3 | .1 |
| Hereditary sensory neuropathy | 1 | .0 |
| Sight Issue | 1 | .0 |
| Unilateral tinnitus | 2 | .1 |


| Candidates with Disabilities - Outcomes by Disability and Attempt |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Outcome | Disability | Attempt |  |  |  |  |  |  |  |  | Total |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |
|  | Back pain and difficulty in prolonged sitting |  |  | 1 | 1 | 1 |  |  |  |  | 3 |
|  | Dyslexia | 3 | 3 | 3 | 4 | 1 | 1 | 1 | 1 | 1 | 18 |
| Fail | Dyslexia \& Dyscalculia | 1 | 1 | 1 |  |  |  |  |  |  | 3 |
|  | Hereditary sensory neuropathy | 1 |  |  |  |  |  |  |  |  | 1 |
|  | Unilateral tinnitus |  |  | 1 |  |  |  |  |  |  | 1 |
|  | Total | 5 | 4 | 6 | 5 | 2 | 1 | 1 | 1 | 1 | 26 |
| Pass | Diabetic | 2 |  |  |  |  |  |  |  |  | 2 |
|  | Dyscalculia |  |  |  |  |  |  | 1 |  |  | 1 |
|  | Dyslexia | 17 | 5 | 6 | 5 | 5 | 1 |  | 1 |  | 40 |
|  | Sight Issue |  |  | 1 |  |  |  |  |  |  | 1 |
|  | Unilateral tinnitus |  |  |  | 1 |  |  |  |  |  | 1 |
|  | Total | 19 | 5 | 7 | 6 | 5 | 1 | 1 | 1 |  | 45 |
| Grand Total |  | 24 | 9 | 13 | 11 | 7 | 2 | 2 | 2 | 1 | 71 |

1. AKT Result and scores by candidate gender, and within source of PMQ (1 ${ }^{\text {st }}$ attempt)



2. AKT Result by classified candidate ethnicity, and separated by source of primary medical qualification ( $1^{\text {st }}$ attempt)

|  |  | Result |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Fail | Pass |  |
| UK Graduate | White | 130 | 1285 | 1415 |
|  |  | 9.2\% | 90.8\% | 100.0\% |
|  | S Asian ('Asian') | 123 | 388 | 511 |
|  |  | 24.1\% | 75.9\% | 100.0\% |
|  | Black | 9 | 31 | 40 |
|  |  | 22.5\% | 77.5\% | 100.0\% |
|  | Chinese / SE Asian | 2 | 45 | 47 |
|  |  | 4.3\% | 95.7\% | 100.0\% |
|  | Other or Mixed Ethnicity | 17 | 66 | 83 |
|  |  | 20.5\% | 79.5\% | 100.0\% |
|  | Unknown | 2 | 7 | 9 |
|  |  | 22.2\% | 77.8\% | 100.0\% |
|  | Total | 283 | 1822 | 2105 |
|  |  | 13.4\% | 86.6\% | 100.0\% |
| Non-UK Graduate | White | 37 | 68 | 105 |
|  |  | 35.2\% | 64.8\% | 100.0\% |
|  | S Asian ('Asian') | 249 | 283 | 532 |
|  |  | 46.8\% | 53.2\% | 100.0\% |
|  | Black | 47 | 43 | 90 |
|  |  | 52.2\% | 47.8\% | 100.0\% |
|  | Chinese / SE Asian | 2 | 3 | 5 |
|  |  | 40.0\% | 60.0\% | 100.0\% |
|  | Other or Mixed Ethnicity | 24 | 31 | 55 |
|  |  | 43.6\% | 56.4\% | 100.0\% |
|  | Unknown | 2 | 3 | 5 |
|  |  | 40.0\% | 60.0\% | 100.0\% |
|  | Total | 361 | 431 | 792 |
|  |  | 45.6\% | 54.4\% | 100.0\% |
| Total | White | 167 | 1353 | 1520 |
|  |  | 11.0\% | 89.0\% | 100.0\% |
|  | S Asian ('Asian') | 372 | 671 | 1043 |
|  |  | 35.7\% | 64.3\% | 100.0\% |
|  | Black | 56 | 74 | 130 |
|  |  | 43.1\% | 56.9\% | 100.0\% |
|  | Chinese / SE Asian | 4 | 48 | 52 |
|  |  | 7.7\% | 92.3\% | 100.0\% |
|  | Other or Mixed Ethnicity | 41 | 97 | 138 |
|  |  | 29.7\% | 70.3\% | 100.0\% |
|  | Unknown | 4 | 10 | 14 |
|  |  | 28.6\% | 71.4\% | 100.0\% |
|  | Total | 644 | 2253 | 2897 |
|  |  | 22.2\% | 77.8\% | 100.0\% |



Split by Source of PMQ


## 3. AKT Result and Scores by PMO, subdivided ( $1^{\text {st }}$ attempt)

## UK Graduates and NULB-Qualified*

| Medical School or *NULB | $\mathbf{N}$ | Min <br> Score | Max <br> Score | Mean <br> Score | SD | Fail <br> Rate | Pass <br> Rate |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| * Apothecaries Qual | 3 | -12.00 | .50 | -6.33 | 6.33 | $66.7 \%$ | $33.3 \%$ |
| * English Conjoint Qual | 1 | -20.50 | -20.50 | -20.50 | . | $100.0 \%$ | $.0 \%$ |
| Aberdeen | 70 | -8.50 | 20.50 | 7.86 | 7.71 | $15.7 \%$ | $84.3 \%$ |
| Belfast | 70 | -6.50 | 23.00 | 10.38 | 6.93 | $10.0 \%$ | $90.0 \%$ |
| Birmingham | 115 | -8.50 | 25.00 | 12.62 | 6.17 | $4.3 \%$ | $95.7 \%$ |
| Bristol | 64 | -2.00 | 25.50 | 13.68 | 6.37 | $1.6 \%$ | $98.4 \%$ |
| Cambridge | 40 | -1.50 | 24.50 | 13.54 | 6.82 | $5.0 \%$ | $95.0 \%$ |
| Dundee | 67 | -13.00 | 26.00 | 7.44 | 7.71 | $19.4 \%$ | $80.6 \%$ |
| East Anglia | 10 | -10.00 | 18.50 | 3.60 | 11.17 | $40.0 \%$ | $60.0 \%$ |
| Edinburgh | 56 | -1.50 | 22.50 | 11.59 | 5.89 | $5.4 \%$ | $94.6 \%$ |
| Glasgow | 101 | -14.00 | 22.50 | 8.15 | 7.49 | $11.9 \%$ | $88.1 \%$ |
| Leeds | 83 | -5.50 | 19.50 | 9.49 | 6.29 | $8.4 \%$ | $91.6 \%$ |
| Leicester | 82 | -19.50 | 22.50 | 6.71 | 9.00 | $18.3 \%$ | $81.7 \%$ |
| Liverpool | 100 | -14.50 | 21.00 | 5.49 | 7.98 | $23.0 \%$ | $77.0 \%$ |
| London - Imperial College | 88 | -5.00 | 25.00 | 11.23 | 6.17 | $3.4 \%$ | $96.6 \%$ |
| London - King's College | 131 | -11.00 | 26.00 | 9.83 | 7.66 | $12.2 \%$ | $87.8 \%$ |
| London - Queen Mary | 115 | -20.50 | 19.00 | 3.78 | 8.65 | $30.4 \%$ | $69.6 \%$ |
| London - St George's | 88 | -13.00 | 25.00 | 7.41 | 7.25 | $14.8 \%$ | $85.2 \%$ |
| London - University College | 118 | -15.00 | 28.00 | 9.69 | 8.12 | $8.5 \%$ | $91.5 \%$ |
| London - Unreported School | 13 | -13.50 | 23.00 | 10.23 | 9.30 | $7.7 \%$ | $92.3 \%$ |
| Manchester | 152 | -17.50 | 25.00 | 7.39 | 8.17 | $15.8 \%$ | $84.2 \%$ |
| Newcastle | 96 | -10.50 | 22.50 | 9.61 | 7.12 | $10.4 \%$ | $89.6 \%$ |
| Nottingham | 81 | -9.00 | 22.00 | 11.56 | 6.65 | $4.9 \%$ | $95.1 \%$ |
| Oxford | 43 | -18.00 | 23.00 | 6.86 | 8.90 | $21.2 \%$ | $78.8 \%$ |
| Peninsula | 69 | -12.00 | 21.00 | 6.88 | 7.79 | $24.6 \%$ | $75.4 \%$ |
| Sheffield | 83 | -11.50 | 22.50 | 9.72 | 6.96 | $9.6 \%$ | $90.4 \%$ |
| Southampton | 29 | -17.00 | 18.50 | 7.63 | 7.81 | $15.9 \%$ | $84.1 \%$ |
| Wales/Cardiff | 2.00 | 24.50 | 17.33 | 5.20 | $.0 \%$ | $100.0 \%$ |  |
| Warwick | -1.50 | 8.50 | 3.38 | 5.36 | $50.0 \%$ | $50.0 \%$ |  |
|  |  |  |  |  |  |  |  |



95\% CI Candidate Score (Scaled to Pass Mark = 0)

Non-UK Graduates (pass-rates only, in view of generally small numbers) ( $1^{\text {st }}$ attempt)

| Non-UK Graduates: Pass-rates by Country, first attempt |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Country | Fail \% | Pass \% | N | Country | Fail \% | Pass \% | N |
| Afghanistan | 50.0\% | 50.0\% | 2 | Latvia | 50.0\% | 50.0\% | 2 |
| Albania | 100.0\% | .0\% | 2 | Libya | 25.0\% | 75.0\% | 4 |
| Algeria | 100.0\% | . $0 \%$ | 1 | Macedonia | 100.0\% | .0\% | 1 |
| Argentina | . $0 \%$ | 100.0\% | 1 | Malawi | 100.0\% | .0\% | 1 |
| Armenia | 50.0\% | 50.0\% | 2 | Malaysia | .0\% | 100.0\% | 1 |
| Australia | .0\% | 100.0\% | 3 | Malta | .0\% | 100.0\% | 1 |
| Austria | 33.3\% | 66.7\% | 3 | Moldova | . $0 \%$ | 100.0\% | 1 |
| Bangladesh | 72.7\% | 27.3\% | 11 | Myanmar | 28.6\% | 71.4\% | 7 |
| Belarus | 100.0\% | .0\% | 3 | Nepal | 66.7\% | 33.3\% | 6 |
| Belgium | 100.0\% | .0\% | 1 | Netherlands | .0\% | 100.0\% | 1 |
| Bolivia | 100.0\% | .0\% | 1 | Netherlands Antilles | 100.0\% | . $0 \%$ | 1 |
| Brazil | 100.0\% | .0\% | 2 | New Zealand | .0\% | 100.0\% | 2 |
| Bulgaria | 33.3\% | 66.7\% | 3 | Nigeria | 54.4\% | 45.6\% | 68 |
| Burundi | . $0 \%$ | 100.0\% | 1 | Oman | .0\% | 100.0\% | 1 |
| Cayman Islands | 100.0\% | . $0 \%$ | 1 | Pakistan | 54.6\% | 45.4\% | 174 |
| China | 33.3\% | 66.7\% | 3 | Philippines | 33.3\% | 66.7\% | 3 |
| Colombia | 50.0\% | 50.0\% | 2 | Poland | 46.7\% | 53.3\% | 15 |
| Congo, Dem Rep | 100.0\% | . $0 \%$ | 1 | Romania | 22.2\% | 77.8\% | 9 |
| Czech Republic | 64.3\% | 35.7\% | 14 | Russian Federation | 68.4\% | 31.6\% | 19 |
| Denmark | 100.0\% | . $0 \%$ | 1 | Saint Lucia | . $0 \%$ | 100.0\% | 1 |
| Egypt | 72.7\% | 27.3\% | 11 | Serbia | 66.7\% | 33.3\% | 3 |
| Georgia | . $0 \%$ | 100.0\% | 1 | Slovakia | 25.0\% | 75.0\% | 4 |
| Germany | 21.4\% | 78.6\% | 14 | South Africa | 15.4\% | 84.6\% | 13 |
| Ghana | .0\% | 100.0\% | 3 | Spain | 100.0\% | .0\% | 1 |
| Grenada | 100.0\% | . $0 \%$ | 2 | Sri Lanka | 11.8\% | 88.2\% | 17 |
| Guyana | 100.0\% | .0\% | 1 | Sudan | 50.0\% | 50.0\% | 2 |
| Hungary | . $0 \%$ | 100.0\% | 2 | Syria | 60.0\% | 40.0\% | 5 |
| India | 38.2\% | 61.8\% | 254 | Tanzania | .0\% | 100.0\% | 1 |
| Iran | 55.6\% | 44.4\% | 9 | Turkey | 50.0\% | 50.0\% | 4 |
| Iraq | 48.0\% | 52.0\% | 25 | Uganda | .0\% | 100.0\% | 1 |
| Ireland | $33.3 \%$ | 66.7\% | 9 | Ukraine | 25.0\% | 75.0\% | 12 |
| Israel | .0\% | 100.0\% | 1 | United States | 100.0\% | .0\% | 1 |
| Italy | 100.0\% | . $0 \%$ | 1 | Uzbekistan | 100.0\% | .0\% | 1 |
| Jamaica | 45.5\% | 54.5\% | 11 | Zambia | 100.0\% | .0\% | 1 |
| Jordan | 50.0\% | 50.0\% | 2 | Zimbabwe | 25.0\% | 75.0\% | 4 |

Non-UK Graduates - Countries with 5+ Candidates on First Attempt


## D: Results by Training Deanery

1 Results for all attempts, combined: UK graduates; non-UK graduates; all graduates

| Deanery | UK Graduates |  | Non-UK Graduates |  | All Candidates |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fail | Pass | Fail | Pass | Fail | Pass |  |
| Armed Forces (Defence) | $\begin{gathered} 8 \\ 25.0 \% \end{gathered}$ | $\begin{gathered} 24 \\ 75.0 \% \end{gathered}$ | $\begin{gathered} 1 \\ 100.0 \% \end{gathered}$ | $\begin{gathered} 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 9 \\ 27 \cdot 3 \% \end{gathered}$ | $\begin{gathered} 24 \\ 72.7 \% \end{gathered}$ | $\begin{gathered} 33 \\ 100.0 \% \end{gathered}$ |
| East Midlands | $\begin{gathered} 21 \\ 15.9 \% \end{gathered}$ | $\begin{gathered} 111 \\ 84.1 \% \end{gathered}$ | $\begin{gathered} 65 \\ 51.6 \% \end{gathered}$ | $\begin{gathered} 61 \\ 48.4 \% \end{gathered}$ | $\begin{gathered} 86 \\ 33 \cdot 3 \% \end{gathered}$ | $\begin{gathered} 172 \\ 66.7 \% \end{gathered}$ | $\begin{gathered} 258 \\ 100.0 \% \end{gathered}$ |
| East of England | $\begin{gathered} 29 \\ 19.3 \% \end{gathered}$ | $\begin{gathered} 121 \\ 80.7 \% \end{gathered}$ | $\begin{gathered} 64 \\ 40.8 \% \end{gathered}$ | $\begin{gathered} 93 \\ 59.2 \% \end{gathered}$ | $\begin{gathered} 93 \\ 30.3 \% \end{gathered}$ | $\begin{gathered} 214 \\ 69.7 \% \end{gathered}$ | $\begin{gathered} 307 \\ 100.0 \% \end{gathered}$ |
| East Scotland | $\begin{gathered} 1 \\ 4.0 \% \end{gathered}$ | $\begin{gathered} 24 \\ 96.0 \% \end{gathered}$ | $\begin{gathered} 2 \\ 40.0 \% \end{gathered}$ | $\begin{gathered} 3 \\ 60.0 \% \end{gathered}$ | $\begin{gathered} 3 \\ 10.0 \% \end{gathered}$ | $\begin{gathered} 27 \\ 90.0 \% \end{gathered}$ | $\begin{gathered} 30 \\ 100.0 \% \end{gathered}$ |
| Kent, Surrey, Sussex | $\begin{gathered} 45 \\ 25.1 \% \end{gathered}$ | $\begin{gathered} 134 \\ 74.9 \% \end{gathered}$ | $\begin{gathered} 92 \\ 46.9 \% \end{gathered}$ | $\begin{gathered} 104 \\ 53.1 \% \end{gathered}$ | $\begin{gathered} 137 \\ 36.5 \% \end{gathered}$ | $\begin{gathered} 238 \\ 63 \cdot 5 \% \end{gathered}$ | $\begin{gathered} 375 \\ 100.0 \% \end{gathered}$ |
| London | $\begin{gathered} 31 \\ 9.5 \% \end{gathered}$ | $\begin{gathered} 297 \\ 90.5 \% \end{gathered}$ | $\begin{gathered} 31 \\ 41.9 \% \end{gathered}$ | $\begin{gathered} 43 \\ 58.1 \% \end{gathered}$ | $\begin{gathered} 62 \\ 15.4 \% \end{gathered}$ | $\begin{gathered} 340 \\ 84.6 \% \end{gathered}$ | $\begin{gathered} 402 \\ 100.0 \% \end{gathered}$ |
| Mersey | $\begin{gathered} 25 \\ 20.8 \% \end{gathered}$ | $\begin{gathered} 95 \\ 79.2 \% \end{gathered}$ | $\begin{gathered} 62 \\ 59.0 \% \end{gathered}$ | $\begin{gathered} 43 \\ 41.0 \% \end{gathered}$ | $\begin{gathered} 87 \\ 38.7 \% \end{gathered}$ | $\begin{gathered} 138 \\ 61.3 \% \end{gathered}$ | $\begin{gathered} 225 \\ 100.0 \% \end{gathered}$ |
| North Scotland | $\begin{gathered} 11 \\ 25.0 \% \end{gathered}$ | $\begin{gathered} 33 \\ 75.0 \% \end{gathered}$ | $\begin{gathered} 8 \\ 53.3 \% \end{gathered}$ | $\begin{gathered} 7 \\ 46.7 \% \end{gathered}$ | $\begin{gathered} 19 \\ 32.2 \% \end{gathered}$ | $\begin{gathered} 40 \\ 67.8 \% \end{gathered}$ | $\begin{gathered} 59 \\ 100.0 \% \end{gathered}$ |
| North Western | $\begin{gathered} 42 \\ 19.1 \% \end{gathered}$ | $\begin{gathered} 178 \\ 80.9 \% \end{gathered}$ | $\begin{gathered} 53 \\ 49 \cdot 5 \% \end{gathered}$ | $\begin{gathered} 54 \\ 50.5 \% \end{gathered}$ | $\begin{gathered} 95 \\ 29.1 \% \end{gathered}$ | $\begin{gathered} 232 \\ 70.9 \% \end{gathered}$ | $\begin{gathered} 327 \\ 100.0 \% \end{gathered}$ |
| Northern | $\begin{gathered} 17 \\ 18.1 \% \end{gathered}$ | $\begin{gathered} 77 \\ 81.9 \% \end{gathered}$ | $\begin{gathered} 33 \\ 54.1 \% \end{gathered}$ | $\begin{gathered} 28 \\ 45.9 \% \end{gathered}$ | $\begin{gathered} 50 \\ 32.3 \% \end{gathered}$ | $\begin{gathered} 105 \\ 67.7 \% \end{gathered}$ | $\begin{gathered} 155 \\ 100.0 \% \end{gathered}$ |
| Northern Ireland | $\begin{gathered} 4 \\ 5.7 \% \end{gathered}$ | $\begin{gathered} 66 \\ 94.3 \% \end{gathered}$ | $\begin{gathered} 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 3 \\ 100.0 \% \end{gathered}$ | $\begin{gathered} 4 \\ 5.5 \% \end{gathered}$ | $\begin{gathered} 69 \\ 94.5 \% \end{gathered}$ | $\begin{gathered} 73 \\ 100.0 \% \end{gathered}$ |
| Oxford | $\begin{gathered} 16 \\ 14.2 \% \end{gathered}$ | $\begin{gathered} 97 \\ 85.8 \% \end{gathered}$ | $\begin{gathered} 15 \\ 44.1 \% \end{gathered}$ | $\begin{gathered} 19 \\ 55.9 \% \end{gathered}$ | $\begin{gathered} 31 \\ 21.1 \% \end{gathered}$ | $\begin{gathered} 116 \\ 78.9 \% \end{gathered}$ | $\begin{gathered} 147 \\ 100.0 \% \end{gathered}$ |
| Severn | $\begin{gathered} 5 \\ 4.3 \% \end{gathered}$ | $\begin{gathered} 112 \\ 95.7 \% \end{gathered}$ | $\begin{gathered} 7 \\ 36.8 \% \end{gathered}$ | $\begin{gathered} 12 \\ 63.2 \% \end{gathered}$ | $\begin{gathered} 12 \\ 8.8 \% \end{gathered}$ | $\begin{gathered} 124 \\ 91.2 \% \end{gathered}$ | $\begin{gathered} 136 \\ 100.0 \% \end{gathered}$ |
| South East Scotland | $\begin{gathered} 4 \\ 7.4 \% \end{gathered}$ | $\begin{gathered} 50 \\ 92.6 \% \end{gathered}$ | $\begin{gathered} 2 \\ 18.2 \% \end{gathered}$ | $\begin{gathered} 9 \\ 81.8 \% \end{gathered}$ | $\begin{gathered} 6 \\ 9.2 \% \end{gathered}$ | $\begin{gathered} 59 \\ 90.8 \% \end{gathered}$ | $\begin{gathered} 65 \\ 100.0 \% \end{gathered}$ |
| South West Peninsula | $\begin{gathered} 10 \\ 18.2 \% \end{gathered}$ | $\begin{gathered} 45 \\ 81.8 \% \end{gathered}$ | $\begin{gathered} 6 \\ 30.0 \% \end{gathered}$ | $\begin{gathered} 14 \\ 70.0 \% \end{gathered}$ | $\begin{gathered} 16 \\ 21.3 \% \end{gathered}$ | $\begin{gathered} 59 \\ 78.7 \% \end{gathered}$ | $\begin{gathered} 75 \\ 100.0 \% \end{gathered}$ |
| Wales | $\begin{gathered} 21 \\ 20.6 \% \end{gathered}$ | $\begin{gathered} 81 \\ 79.4 \% \end{gathered}$ | $\begin{gathered} 12 \\ 30.8 \% \end{gathered}$ | 27 <br> 69.2\% | $\begin{gathered} 33 \\ 23.4 \% \end{gathered}$ | $\begin{gathered} 108 \\ 76.6 \% \end{gathered}$ | $\begin{gathered} 141 \\ 100.0 \% \end{gathered}$ |
| Wessex | $\begin{gathered} 23 \\ 21.5 \% \end{gathered}$ | $\begin{gathered} 84 \\ 78.5 \% \end{gathered}$ | $\begin{gathered} 27 \\ 57.4 \% \end{gathered}$ | $\begin{gathered} 20 \\ 42.6 \% \end{gathered}$ | $\begin{gathered} 50 \\ 32.5 \% \end{gathered}$ | $\begin{gathered} 104 \\ 67.5 \% \end{gathered}$ | $\begin{gathered} 154 \\ 100.0 \% \end{gathered}$ |
| West Midlands | $\begin{gathered} 33 \\ 16.6 \% \end{gathered}$ | $\begin{gathered} 166 \\ 83.4 \% \end{gathered}$ | $\begin{gathered} 84 \\ 47 \cdot 7 \% \end{gathered}$ | $\begin{gathered} 92 \\ 52.3 \% \end{gathered}$ | $\begin{gathered} 117 \\ 31.2 \% \end{gathered}$ | $\begin{gathered} 258 \\ 68.8 \% \end{gathered}$ | $\begin{gathered} 375 \\ 100.0 \% \end{gathered}$ |
| West Scotland | $\begin{gathered} 26 \\ 16.5 \% \end{gathered}$ | $\begin{gathered} 132 \\ 83.5 \% \end{gathered}$ | $\begin{gathered} 18 \\ 43.9 \% \end{gathered}$ | $\begin{gathered} 23 \\ 56.1 \% \end{gathered}$ | $\begin{gathered} 44 \\ 22.1 \% \end{gathered}$ | $\begin{gathered} 155 \\ 77.9 \% \end{gathered}$ | $\begin{gathered} 199 \\ 100.0 \% \end{gathered}$ |
| Yorkshire \& The Humber | $\begin{gathered} 33 \\ 17.4 \% \end{gathered}$ | $\begin{gathered} 157 \\ 82.6 \% \end{gathered}$ | $\begin{gathered} 46 \\ 40.4 \% \end{gathered}$ | $\begin{gathered} \hline 68 \\ 59.6 \% \end{gathered}$ | $\begin{gathered} 79 \\ 26.0 \% \end{gathered}$ | $\begin{gathered} 225 \\ 74.0 \% \end{gathered}$ | $\begin{gathered} 304 \\ 100.0 \% \end{gathered}$ |
| Total | $\begin{gathered} 405 \\ 16.3 \% \end{gathered}$ | $\begin{gathered} 2084 \\ 83.7 \% \end{gathered}$ | $\begin{gathered} 628 \\ 46.5 \% \\ \hline \end{gathered}$ | $\begin{gathered} 723 \\ 53.5 \% \\ \hline \end{gathered}$ | $\begin{gathered} 1033 \\ 26.9 \% \\ \hline \end{gathered}$ | $\begin{gathered} 2807 \\ 73.1 \% \end{gathered}$ | $\begin{gathered} 3840 \\ 100.0 \% \end{gathered}$ |

2. Graphical Representation of Candidate Scores by Deanery, by source of PMQ

UK Graduates, First Attempt


Non-UK Graduates, First Attempt


All Graduates, All Attempts


1 Descriptive Statistics of the three Scores, all candidates

| Stage of Training | N | Minimum | Maximum | Mean | Std. <br> Deviation |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: |
| ST1 | Clinical_Medicine | 17 | 44.38 | 92.50 | 75.81 | 12.92 |
|  | Evidence_Interpretation | 17 | 35.00 | 95.00 | 72.65 | 17.33 |
|  | Organisational_Questions | 17 | 30.00 | 95.00 | 74.71 | 17.45 |
| ST2 | Clinical_Medicine | 1990 | 31.88 | 96.88 | 74.63 | 9.87 |
|  | Evidence_Interpretation | 1990 | 15.00 | 100.00 | 73.12 | 16.49 |
|  | Organisational_Questions | 1990 | 10.00 | 100.00 | 71.24 | 13.72 |
| ST3 | Clinical_Medicine | 1833 | 43.75 | 95.00 | 72.67 | 8.28 |
|  | Evidence_Interpretation | 1833 | 15.00 | 100.00 | 71.33 | 14.71 |
|  | Organisational_Questions | 1833 | 35.00 | 100.00 | 71.53 | 12.75 |

1 Distributions of Scores on the three sub-Components by Training Year, all candidates (ST1 suppressed, because of very small numbers)




## A: Summary of Demographic Information on CSA Candidates

2820 candidates made a total of 3590 attempts at the CSA during 2010-11. The tables below show the origin of the 2820 candidates, by UK medical school or non-UK country of primary medical qualification-and the percentage from each out of the total of that part of the candidature. On the next page, the background demographic characteristics of the 2820 are shown, by training Deanery. Other tables report on the 3590 attempts.

## 1. Source of Primary Medical Qualification

Graduate of UK, EEA or Rest of World

|  | Frequency | Percent |
| :--- | ---: | ---: |
| UK | 1944 | 68.9 |
| EEA | 72 | 2.6 |
| RoW | 804 | 28.5 |
| Total | 2820 | 100.0 |

Graduates of UK Medical Schools and qualifications of *non-University Licensing Bodies

|  | Frequency | Percent |
| :--- | ---: | ---: |
| *Apothecaries Qual | 2 | .1 |
| * Scottish Triple Qual | 1 | .1 |
| Aberdeen | 75 | 3.9 |
| Belfast | 59 | 3.0 |
| Birmingham | 106 | 5.5 |
| Bristol | 44 | 2.3 |
| Cambridge | 45 | 2.3 |
| Dundee | 53 | 2.7 |
| Edinburgh | 51 | 2.6 |
| Glasgow | 107 | 5.5 |
| Leeds | 78 | 4.0 |
| Leicester | 63 | 3.2 |
| Liverpool | 89 | 4.6 |
| London - Imperial College | 80 | 4.1 |
| London - King's College | 145 | 7.5 |
| London - Queen Mary | 89 | 4.6 |
| London - St George's | 86 | 4.4 |
| London - University College | 133 | 6.8 |
| Manchester | 157 | 8.1 |
| Newcastle upon Tyne | 80 | 4.1 |
| Nottingham | 68 | 3.5 |
| Oxford | 22 | 1.1 |
| Sheffield | 112 | 5.8 |
| Southampton | 60 | 3.1 |
| Wales/Cardiff | 85 | 4.4 |
| Warwick | 54 | 2.8 |
| Total | 1944 | 100.0 |


|  | Frequency | Percent |
| :---: | :---: | :---: |
| Algeria | 2 | . 2 |
| Argentina | 1 | . 1 |
| Armenia | 1 | . 1 |
| Australia | 3 | . 3 |
| Austria | 3 | . 3 |
| Bangladesh | 11 | 1.3 |
| Belarus | 4 | . 5 |
| Bolivia | 1 | . 1 |
| Brazil | 1 | . 1 |
| Bulgaria | 2 | . 2 |
| China PRC | 3 | . 3 |
| Colombia | 1 | . 1 |
| Czech Republic | 14 | 1.6 |
| Egypt | 5 | . 6 |
| Germany | 10 | 1.1 |
| Ghana | 6 | . 7 |
| Greece | 2 | . 2 |
| India | 366 | 41.8 |
| Iran | 9 | 1.0 |
| Iraq | 33 | 3.8 |
| Ireland | 13 | 1.5 |
| Israel | 1 | . 1 |
| Italy | 2 | . 2 |
| Jamaica | 11 | 1.3 |
| Jordan | 1 | . 1 |
| Kenya | 2 | . 2 |
| Latvia | 1 | . 1 |
| Lebanon | 1 | . 1 |
| Lithuania | 1 | . 1 |
| Macedonia | 2 | . 2 |
| Malawi | 1 | . 1 |
| Malaysia | 1 | . 1 |
| Myanmar | 6 | . 7 |
| Nepal | 7 | . 8 |
| Netherlands | 1 | . 1 |
| Netherlands Antilles | 1 | . 1 |
| Nigeria | 56 | 6.4 |
| Pakistan | 177 | 20.2 |
| Philippines | 2 | . 2 |
| Poland | 16 | 1.8 |
| Romania | 6 | . 7 |
| Russian Federation | 20 | 2.3 |
| Saint Kitts And Nevis | 2 | . 2 |
| Serbia | 2 | . 2 |
| Slovakia | 1 | . 1 |
| South Africa | 10 | 1.1 |
| Sri Lanka | 25 | 2.9 |
| Sudan | 2 | . 2 |
| Syria | 5 | . 6 |
| Tanzania | 2 | . 2 |
| Tunisia | 1 | . 1 |
| Turkey | 1 | . 1 |
| Ukraine | 11 | 1.3 |
| United Arab Emirates | 1 | . 1 |
| Zambia | 1 | . 1 |
| Zimbabwe | 5 | . 6 |
| Total | 876 | 100.0 |

## 2. CSA Candidates' Gender, Ethnic Group and whether UK or international graduates, by Training Deanery

| Deanery | Gender |  | Ethnic Group (classified, from self-reported detail) |  |  |  |  |  | UK/Non-UK Graduate |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | White | S Asian ('Asian') | Black | Chinese / SE Asian | Mixed Race / Other | Not Known | UK Graduate | Non-UK Graduate |  |
| Armed Forces (Defence) | $\begin{gathered} 14 \\ 63.6 \% \end{gathered}$ | $\begin{gathered} 8 \\ 36.4 \% \end{gathered}$ | $\begin{gathered} 22 \\ 100.0 \% \end{gathered}$ | $\begin{gathered} 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} \circ \\ \hline .0 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 22 \\ 100.0 \% \end{gathered}$ | .0\% | $\begin{gathered} 22 \\ 100.0 \% \end{gathered}$ |
| East Midlands | $\begin{gathered} 88 \\ 55.0 \% \end{gathered}$ | $\begin{gathered} 72 \\ 45.0 \% \end{gathered}$ | $\begin{gathered} 55 \\ 34.4 \% \end{gathered}$ | $\begin{gathered} 86 \\ 53.8 \% \end{gathered}$ | $\begin{gathered} \hline 10 \\ 6.3 \% \end{gathered}$ | $\begin{gathered} 3 \\ 1.9 \% \end{gathered}$ | $\begin{gathered} 5 \\ 3.1 \% \end{gathered}$ | $\begin{gathered} 1 \\ .6 \% \end{gathered}$ | $\begin{gathered} 99 \\ 61.9 \% \end{gathered}$ | $\begin{gathered} 61 \\ 38.1 \% \end{gathered}$ | $\begin{gathered} 160 \\ 100.0 \% \end{gathered}$ |
| East of England | $\begin{gathered} 112 \\ 54.4 \% \end{gathered}$ | $\begin{gathered} 94 \\ 45.6 \% \end{gathered}$ | $\begin{gathered} \hline 67 \\ 32.5 \% \end{gathered}$ | $\begin{gathered} 105 \\ 51.0 \% \end{gathered}$ | $\begin{gathered} \hline 18 \\ 8.7 \% \end{gathered}$ | $\begin{gathered} 7 \\ 3.4 \% \end{gathered}$ | $\begin{gathered} \hline 8 \\ 3.9 \% \end{gathered}$ | $\begin{gathered} 1 \\ .5 \% \end{gathered}$ | $\begin{gathered} 110 \\ 53.4 \% \end{gathered}$ | $\begin{gathered} 96 \\ 46.6 \% \end{gathered}$ | $\begin{gathered} \hline 206 \\ 100.0 \% \end{gathered}$ |
| East Scotland | $\begin{gathered} 9 \\ 45.0 \% \end{gathered}$ | $\begin{gathered} 11 \\ 55.0 \% \end{gathered}$ | $\begin{gathered} \hline 14 \\ 70.0 \% \end{gathered}$ | $\begin{gathered} 5 \\ 25.0 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 0 \\ \hline .0 \% \end{gathered}$ | $\begin{gathered} \hline 1 \\ 5.0 \% \end{gathered}$ | $.0 \%$ | $\begin{gathered} 16 \\ 80.0 \% \end{gathered}$ | $\begin{gathered} 4 \\ 20.0 \% \end{gathered}$ | $\begin{gathered} 20 \\ 100.0 \% \end{gathered}$ |
| Kent, Surrey, Sussex | $\begin{gathered} 120 \\ 46.9 \% \end{gathered}$ | $\begin{gathered} 136 \\ 53.1 \% \end{gathered}$ | $\begin{gathered} 91 \\ 35.5 \% \end{gathered}$ | $\begin{gathered} 128 \\ 50.0 \% \end{gathered}$ | $\begin{gathered} 17 \\ 6.6 \% \end{gathered}$ | $\begin{gathered} 6 \\ 2.3 \% \end{gathered}$ | $\begin{gathered} 13 \\ 5.1 \% \end{gathered}$ | $\begin{gathered} 1 \\ .4 \% \end{gathered}$ | $\begin{gathered} 149 \\ 58.2 \% \end{gathered}$ | $\begin{gathered} 107 \\ 41.8 \% \end{gathered}$ | $\begin{gathered} 256 \\ 100.0 \% \end{gathered}$ |
| London | $\begin{gathered} \hline 102 \\ 30.6 \% \end{gathered}$ | $\begin{gathered} 231 \\ 69.4 \% \end{gathered}$ | $\begin{gathered} 121 \\ 36.3 \% \end{gathered}$ | $\begin{gathered} 150 \\ 45.0 \% \end{gathered}$ | $\begin{gathered} 19 \\ 5.7 \% \end{gathered}$ | $\begin{gathered} 13 \\ 3.9 \% \end{gathered}$ | $\begin{gathered} 27 \\ 8.1 \% \end{gathered}$ | $\begin{gathered} 3 \\ .9 \% \end{gathered}$ | $\begin{gathered} 278 \\ 83.5 \% \end{gathered}$ | $\begin{gathered} 55 \\ 16.5 \% \end{gathered}$ | $\begin{gathered} 333 \\ 100.0 \% \end{gathered}$ |
| Mersey | $\begin{gathered} 53 \\ 44.5 \% \end{gathered}$ | $\begin{gathered} 66 \\ 55.5 \% \end{gathered}$ | $\begin{gathered} 65 \\ 54.6 \% \end{gathered}$ | $\begin{gathered} 43 \\ 36.1 \% \end{gathered}$ | $\begin{gathered} 6 \\ 5.0 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 5 \\ 4.2 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 79 \\ 66.4 \% \end{gathered}$ | $\begin{gathered} 40 \\ 33.6 \% \end{gathered}$ | $\begin{gathered} 119 \\ 100.0 \% \end{gathered}$ |
| North Scotland | $\begin{gathered} 37 \\ 52.9 \% \end{gathered}$ | $\begin{gathered} 33 \\ 47.1 \% \end{gathered}$ | $\begin{gathered} 46 \\ 65.7 \% \end{gathered}$ | $\begin{gathered} \hline 20 \\ 28.6 \% \end{gathered}$ | $\begin{gathered} \hline 2 \\ 2.9 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} \hline 2 \\ 2.9 \% \end{gathered}$ | $\begin{gathered} \circ \\ \hline .0 \% \end{gathered}$ | $\begin{gathered} 50 \\ 71.4 \% \end{gathered}$ | $\begin{gathered} 20 \\ 28.6 \% \end{gathered}$ | $\begin{gathered} 70 \\ 100.0 \% \end{gathered}$ |
| North Western | $\begin{gathered} 118 \\ 49.2 \% \end{gathered}$ | $\begin{gathered} 122 \\ 50.8 \% \end{gathered}$ | $\begin{gathered} 86 \\ 35.8 \% \end{gathered}$ | $\begin{gathered} 126 \\ 52.5 \% \end{gathered}$ | $\begin{gathered} 8 \\ 3.3 \% \end{gathered}$ | $\begin{gathered} 2 \\ .8 \% \end{gathered}$ | $\begin{gathered} 17 \\ 7.1 \% \end{gathered}$ | $\begin{gathered} 1 \\ .4 \% \end{gathered}$ | $\begin{gathered} 147 \\ 61.3 \% \end{gathered}$ | $\begin{gathered} 93 \\ 38.8 \% \end{gathered}$ | $\begin{gathered} 240 \\ 100.0 \% \end{gathered}$ |
| Northern | $\begin{gathered} 53 \\ 39.8 \% \end{gathered}$ | $\begin{gathered} \hline 80 \\ 60.2 \% \end{gathered}$ | $\begin{gathered} 80 \\ 60.2 \% \end{gathered}$ | $\begin{gathered} 43 \\ 32.3 \% \end{gathered}$ | $\begin{gathered} \hline 2 \\ 1.5 \% \end{gathered}$ | $\begin{gathered} 5 \\ 3.8 \% \end{gathered}$ | $\begin{gathered} \hline 3 \\ 2.3 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 91 \\ 68.4 \% \end{gathered}$ | $\begin{gathered} 4^{2} \\ 31.6 \% \end{gathered}$ | $\begin{gathered} 133 \\ 100.0 \% \end{gathered}$ |
| Northern Ireland | $\begin{gathered} 23 \\ 37.1 \% \end{gathered}$ | $\begin{gathered} 39 \\ 62.9 \% \end{gathered}$ | $\begin{gathered} 60 \\ 96.8 \% \end{gathered}$ | $\begin{gathered} 2 \\ 3.2 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 0 \\ .0 \% \end{gathered}$ | .0\% | $\begin{gathered} 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} \hline 60 \\ 96.8 \% \end{gathered}$ | $\begin{gathered} 2 \\ 3.2 \% \end{gathered}$ | $\begin{gathered} 62 \\ 100.0 \% \end{gathered}$ |
| Oxford | $\begin{gathered} 29 \\ 36.3 \% \end{gathered}$ | $\begin{gathered} 51 \\ 63.8 \% \end{gathered}$ | $\begin{gathered} 49 \\ 61.3 \% \end{gathered}$ | $\begin{gathered} 26 \\ 32.5 \% \end{gathered}$ | $\begin{gathered} 3 \\ 3.8 \% \end{gathered}$ | $\begin{gathered} 1 \\ 1.3 \% \end{gathered}$ | $\begin{gathered} 1 \\ 1.3 \% \end{gathered}$ | $\begin{gathered} \circ \\ \hline .0 \% \end{gathered}$ | $\begin{gathered} 62 \\ 77.5 \% \end{gathered}$ | $\begin{gathered} 18 \\ 22.5 \% \end{gathered}$ | $\begin{gathered} 80 \\ 100.0 \% \end{gathered}$ |
| Severn | $\begin{gathered} 41 \\ 40.6 \% \end{gathered}$ | $\begin{gathered} 60 \\ 59.4 \% \end{gathered}$ | $\begin{gathered} 66 \\ 65.3 \% \end{gathered}$ | $\begin{gathered} 24 \\ 23.8 \% \end{gathered}$ | $\begin{gathered} 2 \\ 2.0 \% \end{gathered}$ | $\begin{gathered} 2 \\ 2.0 \% \end{gathered}$ | $\begin{gathered} 5 \\ 5.0 \% \end{gathered}$ | $\begin{gathered} 2 \\ 2.0 \% \end{gathered}$ | $\begin{gathered} 83 \\ 82.2 \% \end{gathered}$ | $\begin{gathered} 18 \\ 17.8 \% \end{gathered}$ | $\begin{gathered} \hline 101 \\ 100.0 \% \end{gathered}$ |
| South East Scotland | $\begin{gathered} 33 \\ 49.3 \% \end{gathered}$ | $\begin{gathered} 34 \\ 50.7 \% \end{gathered}$ | $\begin{gathered} 44 \\ 65.7 \% \end{gathered}$ | $\begin{gathered} 16 \\ 23.9 \% \end{gathered}$ | $\begin{gathered} 5 \\ 7.5 \% \end{gathered}$ | $\begin{gathered} 1 \\ 1.5 \% \end{gathered}$ | $\begin{gathered} 1 \\ 1.5 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 52 \\ 77.6 \% \end{gathered}$ | $\begin{gathered} 15 \\ 22.4 \% \end{gathered}$ | $\begin{gathered} 67 \\ 100.0 \% \end{gathered}$ |
| South West Peninsula | $\begin{gathered} 30 \\ 52.6 \% \end{gathered}$ | $\begin{gathered} 27 \\ 47.4 \% \end{gathered}$ | $\begin{gathered} 37 \\ 64.9 \% \end{gathered}$ | $\begin{gathered} 12 \\ 21.1 \% \end{gathered}$ | .0\% | $\begin{gathered} 1 \\ 1.8 \% \end{gathered}$ | $\begin{gathered} 5 \\ 8.8 \% \end{gathered}$ | $\begin{gathered} 2 \\ 3.5 \% \end{gathered}$ | $\begin{gathered} 44 \\ 77.2 \% \end{gathered}$ | $\begin{gathered} 13 \\ 22.8 \% \end{gathered}$ | $\begin{gathered} \hline 57 \\ 100.0 \% \end{gathered}$ |
| Wales | $\begin{gathered} 57 \\ 47.1 \% \end{gathered}$ | $\begin{gathered} 64 \\ 52.9 \% \end{gathered}$ | $\begin{gathered} 69 \\ 57.0 \% \end{gathered}$ | $\begin{gathered} 43 \\ 35.5 \% \end{gathered}$ | $\begin{gathered} 2 \\ 1.7 \% \end{gathered}$ | $\begin{gathered} 2 \\ 1.7 \% \end{gathered}$ | $\begin{gathered} 4 \\ 3.3 \% \end{gathered}$ | $\begin{gathered} 1 \\ .8 \% \end{gathered}$ | $\begin{gathered} 84 \\ 69.4 \% \end{gathered}$ | $\begin{gathered} 37 \\ 30.6 \% \end{gathered}$ | $\begin{gathered} 121 \\ 100.0 \% \end{gathered}$ |
| Wessex | $\begin{gathered} 36 \\ 36.7 \% \end{gathered}$ | $\begin{gathered} 62 \\ 63.3 \% \end{gathered}$ | $\begin{gathered} 60 \\ 61.2 \% \end{gathered}$ | $\begin{gathered} 27 \\ 27.6 \% \end{gathered}$ | $\begin{gathered} 3 \\ 3.1 \% \end{gathered}$ | $\begin{gathered} 1 \\ 1.0 \% \end{gathered}$ | $\begin{gathered} 6 \\ 6.1 \% \end{gathered}$ | $\begin{gathered} 1 \\ 1.0 \% \end{gathered}$ | $\begin{gathered} 75 \\ 76.5 \% \end{gathered}$ | $\begin{gathered} 23 \\ 23.5 \% \end{gathered}$ | $\begin{gathered} 98 \\ 100.0 \% \end{gathered}$ |
| West Midlands | $\begin{gathered} 183 \\ 56.0 \% \end{gathered}$ | $\begin{gathered} 144 \\ 44.0 \% \end{gathered}$ | $\begin{gathered} 96 \\ 29.4 \% \end{gathered}$ | $\begin{gathered} 188 \\ 57.5 \% \end{gathered}$ | $\begin{gathered} 14 \\ 4 \cdot 3 \% \end{gathered}$ | $\begin{gathered} 8 \\ 2.4 \% \end{gathered}$ | $\begin{gathered} 17 \\ 5.2 \% \end{gathered}$ | $\begin{gathered} 4 \\ 1.2 \% \end{gathered}$ | $\begin{gathered} 182 \\ 55.7 \% \end{gathered}$ | $\begin{gathered} 145 \\ 44.3 \% \end{gathered}$ | $\begin{gathered} 327 \\ 100.0 \% \end{gathered}$ |
| West Scotland | $\begin{gathered} 59 \\ 42.1 \% \end{gathered}$ | $\begin{gathered} 81 \\ 57.9 \% \end{gathered}$ | $\begin{gathered} 96 \\ 68.6 \% \end{gathered}$ | $\begin{gathered} 41 \\ 29.3 \% \end{gathered}$ | $\begin{gathered} 1 \\ .7 \% \end{gathered}$ | $\begin{gathered} 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 2 \\ 1.4 \% \end{gathered}$ | $\begin{gathered} \hline 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} \hline 113 \\ 80.7 \% \end{gathered}$ | $\begin{gathered} 27 \\ 19.3 \% \end{gathered}$ | $\begin{gathered} 140 \\ 100.0 \% \end{gathered}$ |
| Yorkshire \& The Humber | $\begin{gathered} 74 \\ 35.6 \% \end{gathered}$ | $\begin{gathered} 134 \\ 64.4 \% \end{gathered}$ | $\begin{gathered} 108 \\ 51.9 \% \end{gathered}$ | $\begin{gathered} 82 \\ 39.4 \% \end{gathered}$ | $\begin{gathered} 2 \\ 1.0 \% \end{gathered}$ | $\begin{gathered} 2 \\ 1.0 \% \end{gathered}$ | $\begin{gathered} 13 \\ 6.3 \% \end{gathered}$ | $\begin{gathered} 1 \\ .5 \% \end{gathered}$ | $\begin{gathered} 148 \\ 71.2 \% \end{gathered}$ | $\begin{gathered} 60 \\ 28.8 \% \end{gathered}$ | $\begin{gathered} 208 \\ 100.0 \% \end{gathered}$ |
| Total | $\begin{gathered} 1271 \\ 45.1 \% \end{gathered}$ | $\begin{gathered} 1549 \\ 54.9 \% \end{gathered}$ | $\begin{gathered} 1332 \\ 47 \cdot 2 \% \end{gathered}$ | $\begin{gathered} 1167 \\ 41.4 \% \end{gathered}$ | $\begin{gathered} 114 \\ 4.0 \% \end{gathered}$ | $\begin{gathered} 54 \\ 1.9 \% \end{gathered}$ | $\begin{gathered} 135 \\ 4.8 \% \end{gathered}$ | $\begin{aligned} & \hline 18 \\ & .6 \% \end{aligned}$ | $\begin{gathered} 1944 \\ 68.9 \% \end{gathered}$ | $\begin{gathered} \hline 876 \\ 31.1 \% \end{gathered}$ | $\begin{gathered} 2820 \\ 100.0 \% \end{gathered}$ |

B: Main Results: Overall, and by Exam Diet and Attempt (All Candidates)

## 1. CSA Result and scores, overall

The pass-mark varies day-on-day (see introduction): marks have been re-scaled in this report to a pass-mark of zero
CSA Result

|  | Frequency | Percent |
| :--- | ---: | ---: |
| Fail | 1139 | 31.7 |
| Pass | 2451 | 68.3 |
| Total | 3590 | 100.0 |



2. CSA Result and scores, by CSA Diet (all candidates)

|  |  | Result |  | CSA Result by Diet |
| :--- | :--- | ---: | ---: | ---: |
|  | Fail |  | Pass |  |
| 2010-11 Diet | Sept 2010 | 171 | 144 | 315 |
|  |  | $54.3 \%$ | $45.7 \%$ | $100.0 \%$ |
|  | Nov 2010 | 181 | 313 | 494 |
|  |  | $36.6 \%$ | $63.4 \%$ | $100.0 \%$ |
|  | Feb 2011 | 472 | 1431 | 1903 |
|  |  | $24.8 \%$ | $75.2 \%$ | $100.0 \%$ |
|  | May 2011 | 315 | 563 | 878 |
|  |  | $35.9 \%$ | $64.1 \%$ | $100.0 \%$ |
| Total | 1139 | 2451 | 3590 |  |
|  |  | $31.7 \%$ | $68.3 \%$ | $100.0 \%$ |



3. Result and scores, by attempt at the CSA: all graduates, and separated by source of primary medical qualification, UK/non-UK (all candidates)

| Result by Attempt at CSA |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| UK or Non-UK Graduate |  |  | Result |  | Total |
|  |  |  | Fail | Pass |  |
| UK Graduate | Attempt at CSA | 1 | 157 | 1760 | 1917 |
|  |  |  | 8.2\% | 91.8\% | 100.0\% |
|  |  | 2 | 27 | 130 | 157 |
|  |  |  | 17.2\% | 82.8\% | 100.0\% |
|  |  | 3 | 8 | 8 | 16 |
|  |  |  | 50.0\% | 50.0\% | 100.0\% |
|  |  | 4 | 5 | 3 | 8 |
|  |  |  | 62.5\% | 37.5\% | 100.0\% |
|  |  | 5 | 0 | 2 | 2 |
|  |  |  | .0\% | 100.0\% | 100.0\% |
|  | Total |  | 197 | 1903 | 2100 |
|  |  |  | 9.4\% | 90.6\% | 100.0\% |
| Non-UK Graduate | Attempt at CSA | 1 | 426 | 294 | 720 |
|  |  |  | 59.2\% | 40.8\% | 100.0\% |
|  |  | 2 | 264 | 159 | 423 |
|  |  |  | 62.4\% | 37.6\% | 100.0\% |
|  |  | 3 | 127 | 51 | 178 |
|  |  |  | 71.3\% | 28.7\% | 100.0\% |
|  |  | 4 | 78 | 25 | 103 |
|  |  |  | 75.7\% | 24.3\% | 100.0\% |
|  |  | 5 | 32 | 15 | 47 |
|  |  |  | 68.1\% | 31.9\% | 100.0\% |
|  |  | 6 | 10 | 4 | 14 |
|  |  |  | 71.4\% | 28.6\% | 100.0\% |
|  |  | 7 | 4 | 0 | 4 |
|  |  |  | 100.0\% | .0\% | 100.0\% |
|  |  | 8 | 1 | 0 | 1 |
|  |  |  | 100.0\% | .0\% | 100.0\% |
|  | Total |  | 942 | 548 | 1490 |
|  |  |  | 63.2\% | 36.8\% | 100.0\% |
| Total | Attempt at CSA | 1 | 583 | 2054 | 2637 |
|  |  |  | 22.1\% | 77.9\% | 100.0\% |
|  |  | 2 | 291 | 289 | 580 |
|  |  |  | 50.2\% | 49.8\% | 100.0\% |
|  |  | 3 | 135 | 59 | 194 |
|  |  |  | 69.6\% | 30.4\% | 100.0\% |
|  |  | 4 | 83 | 28 | 111 |
|  |  |  | 74.8\% | 25.2\% | 100.0\% |
|  |  | 5 | 32 | 17 | 49 |
|  |  |  | 65.3\% | 34.7\% | 100.0\% |
|  |  | 6 | 10 | 4 | 14 |
|  |  |  | 71.4\% | 28.6\% | 100.0\% |
|  |  | 7 | 4 | 0 | 4 |
|  |  |  | 100.0\% | .0\% | 100.0\% |
|  |  | 8 | 1 | 0 | 1 |
|  |  |  | 100.0\% | .0\% | 100.0\% |
|  | Total |  | 1139 | 2451 | 3590 |
|  |  |  | 31.7\% | 68.3\% | 100.0\% |




4. Score on first attempt by source of PMQ, UK and non-UK Graduates compared


## 5. Candidates with Disabilities: prevalence overall and by attempt; outcomes

UK Equality Legislation permits examination candidates with disabilities to request reasonable accommodations in regard to their disabilities, without affecting the difficulty of the examination. The tables below record the prevalence of such candidates in attempts at the CSA in 2010-11, together with the results of the assessments.

There were 52 disabled candidates in all (see first table below) making 64 attempts (see second, larger table). The third table shows those who passed.

The pass rate for candidates reporting disabilities was $85 \%$ on first attempt, $25 \%$ on subsequent attempts, combined.
Candidates with Disabilities

|  | Frequency | Percent |
| :--- | ---: | ---: |
| Dyslexia | 29 | 1.0 |
| Hearing impaired | 5 | .2 |
| Other disability | 12 | .4 |
| Physical disabilities | 2 | .1 |
| Speech impaired | 1 | .0 |
| Visually impaired | 2 | .1 |
| Wheelchair user | 1 | .0 |

Prevalence of Disability Reported by Attempt

|  |  | Attempt at CSA (from records) |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |
| Disability Reported | Dyslexia | 21 | 4 | 3 | 3 | 2 | 0 | 0 | 0 | 33 |
|  | Hearing impaired | 4 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 7 |
|  | Other disability | 10 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 16 |
|  | Physical disabilities | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | Speech impaired | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | Visually impaired | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | Wheelchair user | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |

Result: Successful Candidates, by Disability and Attempt

| Count |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Attempt at CSA (from records) |  |  |  |  |  | Total |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 |  |
| Disability Reported | Dyslexia | 19 | 1 | 0 | 1 | 1 | 0 | 22 |
|  | Hearing impaired | 3 | 0 | 0 | 0 | 0 | 1 | 4 |
|  | Other disability | 8 | 1 | 0 | 0 | 0 | 0 | 9 |
|  | Physical disabilities | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
|  | Visually impaired | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
|  | Wheelchair user | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

1. Result and scores by candidate gender, and within source of PMO ( $1^{\text {st }}$ attempt)

| UK or Non-UK Graduate (from GMC) |  |  | Result |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Fail | Pass |  |
| UK Graduate | Candidate's Sex | Male | 107 | 623 | 730 |
|  |  |  | 14.7\% | 85.3\% | 100.0\% |
|  |  | Female | 50 | 1137 | 1187 |
|  |  |  | 4.2\% | 95.8\% | 100.0\% |
|  | Total |  | 157 | 1760 | 1917 |
|  |  |  | 8.2\% | 91.8\% | 100.0\% |
| Non-UK Graduate | Candidate's Sex | Male | 278 | 143 | 421 |
|  |  |  | 66.0\% | 34.0\% | 100.0\% |
|  |  | Female | 148 | 151 | 299 |
|  |  |  | 49.5\% | 50.5\% | 100.0\% |
|  | Total |  | 426 | 294 | 720 |
|  |  |  | 59.2\% | 40.8\% | 100.0\% |
| Total | Candidate's Sex | Male | 385 | 766 | 1151 |
|  |  |  | 33.4\% | 66.6\% | 100.0\% |
|  |  | Female | 198 | 1288 | 1486 |
|  |  |  | 13.3\% | 86.7\% | 100.0\% |
|  | Total |  | 583 | 2054 | 2637 |
|  |  |  | 22.1\% | 77.9\% | 100.0\% |



2. Result by classified candidate ethnicity, and separated by source of primary medical qualification, UK/non-UK graduates ( ${ }^{\text {st }}$ attempt)

| UK or Non-UK Graduate |  |  | Result |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Fail | Pass |  |
| UK Graduate |  | White | 49 | 1197 | 1246 |
|  |  |  | 3.9\% | 96.1\% | 100.0\% |
|  |  | S Asian ('Asian') | 76 | 420 | 496 |
|  |  |  | 15.3\% | 84.7\% | 100.0\% |
|  |  | Black | 12 | 24 | 36 |
|  |  |  | 33.3\% | 66.7\% | 100.0\% |
|  |  | Chinese / SE Asian | 10 | 34 | 44 |
|  |  |  | 22.7\% | 77.3\% | 100.0\% |
|  |  | Mixed Race / Other | 8 | 76 | 84 |
|  |  |  | 9.5\% | 90.5\% | 100.0\% |
|  |  | Not Known | 2 | 9 | 11 |
|  |  |  | 18.2\% | 81.8\% | 100.0\% |
|  | Total |  | 157 | 1760 | 1917 |
|  |  |  | 8.2\% | 91.8\% | 100.0\% |
| Non-UK Graduate |  | White | 22 | 48 | 70 |
|  |  |  | 31.4\% | 68.6\% | 100.0\% |
|  |  | S Asian ('Asian') | 341 | 199 | 540 |
|  |  |  | 63.1\% | 36.9\% | 100.0\% |
|  |  | Black | 37 | 20 | 57 |
|  |  |  | 64.9\% | 35.1\% | 100.0\% |
|  |  | Chinese / SE Asian | 5 | 3 | 8 |
|  |  |  | 62.5\% | 37.5\% | 100.0\% |
|  |  | Mixed Race / Other | 16 | 24 | 40 |
|  |  |  | 40.0\% | 60.0\% | 100.0\% |
|  |  | Not Known | 5 | 0 | 5 |
|  |  |  | 100.0\% | .0\% | 100.0\% |
|  | Total |  | 426 | 294 | 720 |
|  |  |  | 59.2\% | 40.8\% | 100.0\% |
| Total |  | White | 71 | 1245 | 1316 |
|  |  |  | 5.4\% | 94.6\% | 100.0\% |
|  |  | S Asian ('Asian') | 417 | 619 | 1036 |
|  |  |  | 40.3\% | 59.7\% | 100.0\% |
|  |  | Black | 49 | 44 | 93 |
|  |  |  | 52.7\% | 47.3\% | 100.0\% |
|  |  | Chinese / SE Asian | 15 | 37 | 52 |
|  |  |  | 28.8\% | 71.2\% | 100.0\% |
|  |  | Mixed Race / Other | 24 | 100 | 124 |
|  |  |  | 19.4\% | 80.6\% | 100.0\% |
|  |  | Not Known | 7 | 9 | 16 |
|  |  |  | 43.8\% | 56.3\% | 100.0\% |
|  | Total |  | 583 | 2054 | 2637 |
|  |  |  | 22.1\% | 77.9\% | 100.0\% |



Split by Source of PMQ

3. CSA Result and Scores by PMO, subdivided ( $1^{\text {st }}$ attempt)

UK Graduates and NULB-Qualified

| Med School or *NULB | Number <br> of Cand's | Min. <br> Score | Max. <br> Score | Mean <br> Score | SD | Fail \% | Pass \% |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| *Apothecaries Qual | 2 | -1 | 4 | 1.50 | 3.54 | 50 | 50 |
| * Scottish Triple Qual | 1 | -9 | -9 | -9.00 | . | 100 | 0 |
| Aberdeen | 74 | -15 | 34 | 12.14 | 11.03 | 14 | 86 |
| Belfast | 59 | -4 | 29 | 14.73 | 8.61 | 3 | 97 |
| Birmingham | 101 | -16 | 36 | 15.54 | 10.44 | 6 | 94 |
| Bristol | 43 | -20 | 33 | 15.49 | 11.47 | 9 | 91 |
| Cambridge | 45 | -10 | 29 | 16.20 | 8.32 | 4 | 96 |
| Dundee | 51 | -12 | 33 | 9.61 | 10.33 | 18 | 82 |
| Edinburgh | 51 | -18 | 34 | 14.25 | 10.51 | 6 | 94 |
| Glasgow | 106 | -11 | 34 | 13.84 | 9.75 | 7 | 93 |
| Leeds | 77 | -11 | 31 | 14.47 | 10.21 | 9 | 91 |
| Leicester | 62 | -5 | 34 | 16.84 | 9.59 | 6 | 94 |
| Liverpool | 89 | -31 | 35 | 9.55 | 11.06 | 12 | 88 |
| London - Imperial College | 80 | -12 | 35 | 14.31 | 10.16 | 10 | 90 |
| London - King's College | 140 | -12 | 37 | 13.68 | 10.49 | 10 | 90 |
| London - Queen Mary | 87 | -17 | 28 | 7.01 | 10.53 | 21 | 79 |
| London - St George's | 86 | -6 | 34 | 15.51 | 9.38 | 6 | 94 |
| London - University College | 131 | -8 | 38 | 15.76 | 8.78 | 5 | 95 |
| Manchester | 156 | -21 | 36 | 13.29 | 9.89 | 8 | 92 |
| Newcastle upon Tyne | 80 | -9 | 33 | 17.13 | 9.66 | 6 | 94 |
| Nottingham | 109 | -26 | 33 | 15.87 | 8.81 | 4 | 96 |
| Oxford | 60 | -8 | 38 | 13.15 | 10.59 | 12 | 88 |
| Sheffield | 84 | -19 | 31 | 13.62 | 9.13 | 7 | 93 |
| Southampton | 54 | -8 | 32 | 14.30 | 8.70 | 4 | 96 |
| Wales/Cardiff | 67 | -17 | 39 | 16.91 | 9.72 | 3 | 97 |
| Warwick | 22 | 0 | 37 | 23.41 | 8.37 | 0 | 100 |
|  |  |  |  |  | 9 |  |  |



| Non-UK Graduates: Pass-rates by country, first attempt |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Country | Fail \% | Pass \% | N | Country | Fail \% | Pass \% | N |
| Algeria | 100\% | \% | 2 | Lebanon | 100\% | \% | 1 |
| Argentina | \% | 100\% | 1 | Lithuania | \% | 100\% | 1 |
| Armenia | 100\% | \% | 1 | Macedonia | 100\% | \% | 2 |
| Australia | \% | 100\% | 3 | Malawi | 100\% | \% | 1 |
| Austria | 67\% | $33 \%$ | 3 | Malaysia | 100\% | \% | 1 |
| Bangladesh | 100\% | \% | 3 | Myanmar | 100\% | \% | 6 |
| Belarus | 50\% | 50\% | 4 | Nepal | 71\% | 29\% | 7 |
| Bolivia | \% | 100\% | 1 | Netherlands | 100\% | \% | 1 |
| Brazil | \% | 100\% | 1 | Netherlands Antilles | 100\% | \% | 1 |
| Bulgaria | 100\% | \% | 2 | Nigeria | 68\% | 32\% | 41 |
| China PRC | 100\% | \% | 2 | Pakistan | 62\% | 38\% | 151 |
| Colombia | 100\% | \% | 1 | Philippines | \% | 100\% |  |
| Czech Republic | 63\% | 38\% | 8 | Poland | 6\% | 94\% | 16 |
| Egypt | 25\% | 75\% | 4 | Romania | 75\% | 25\% | 4 |
| Germany | 20\% | 80\% | 10 | Russian Federation | 53\% | 47\% | 15 |
| Ghana | 50\% | 50\% | 4 | Saint Kitts And Nevis | 100\% | \% | 2 |
| Greece | \% | 100\% | 1 | Serbia | 100\% | \% | 2 |
| India | 63\% | $37 \%$ | 302 | Slovakia | 100\% | \% | 1 |
| Iran | 38\% | 63\% | 8 | South Africa | 11\% | 89\% | 9 |
| Iraq | 55\% | 45\% | 22 | Sri Lanka | 63\% | 37\% | 19 |
| Ireland | 33\% | 67\% | 12 | Sudan | 50\% | 50\% | 2 |
| Israel | \% | 100\% | 1 | Syria | 60\% | 40\% | 5 |
| Italy | 100\% | \% | 1 | Tanzania | 50\% | 50\% | 2 |
| Jamaica | 55\% | 45\% | 11 | Ukraine | 60\% | 40\% | 10 |
| Jordan | \% | 100\% | 1 | United Arab Emirates | \% | 100\% | 1 |
| Kenya | 100\% | \% | 2 | Zambia | 100\% | \% | 1 |
| Latvia | 100\% | \% | 1 | Zimbabwe | 20\% | 80\% | 5 |

## Non-UK Graduates - Countries with 5+ Candidates on First Attempt



## D: Results by Training Deanery

1 Results for all attempts, combined: UK graduates; non-UK graduates; all graduates

| Deanery | UK Graduates |  | Non-UK Graduates |  | All Candidates |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fail | Pass | Fail | Pass | Fail | Pass |  |
| Armed Forces (Defence) | $\begin{gathered} 3 \\ 12.5 \% \end{gathered}$ | $\begin{gathered} 21 \\ 87.5 \% \end{gathered}$ | - | - | $\begin{gathered} 3 \\ 12.5 \% \end{gathered}$ | $\begin{gathered} 21 \\ 87.5 \% \end{gathered}$ | $\begin{gathered} 24 \\ 100.0 \% \end{gathered}$ |
| East Midlands | $\begin{gathered} 18 \\ 15.9 \% \end{gathered}$ | $\begin{gathered} 95 \\ 84.1 \% \end{gathered}$ | $\begin{gathered} 72 \\ 65.5 \% \end{gathered}$ | $\begin{gathered} 38 \\ 34.5 \% \end{gathered}$ | $\begin{gathered} 90 \\ 40.4 \% \end{gathered}$ | $\begin{gathered} 133 \\ 59.6 \% \end{gathered}$ | $\begin{gathered} 223 \\ 100.0 \% \end{gathered}$ |
| East of England | $\begin{gathered} 14 \\ 11.5 \% \end{gathered}$ | $\begin{gathered} 108 \\ 88.5 \% \end{gathered}$ | $\begin{gathered} 110 \\ 65.5 \% \end{gathered}$ | $\begin{gathered} 58 \\ 34.5 \% \end{gathered}$ | $\begin{gathered} 124 \\ 42.8 \% \end{gathered}$ | $\begin{gathered} \hline 166 \\ 57.2 \% \end{gathered}$ | $\begin{gathered} 290 \\ 100.0 \% \end{gathered}$ |
| East Scotland | $\begin{gathered} 2 \\ 11.8 \% \end{gathered}$ | $\begin{gathered} 15 \\ 88.2 \% \end{gathered}$ | $\begin{gathered} 5 \\ 83.3 \% \end{gathered}$ | $\begin{gathered} 1 \\ 16.7 \% \end{gathered}$ | $\begin{gathered} 7 \\ 30.4 \% \end{gathered}$ | $\begin{gathered} 16 \\ 69.6 \% \end{gathered}$ | $\begin{gathered} 23 \\ 100.0 \% \end{gathered}$ |
| Kent, Surrey, Sussex | $\begin{gathered} 20 \\ 12.3 \% \end{gathered}$ | $\begin{gathered} 142 \\ 87.7 \% \end{gathered}$ | $\begin{gathered} 88 \\ 55.0 \% \end{gathered}$ | $\begin{gathered} 72 \\ 45.0 \% \end{gathered}$ | $\begin{gathered} 108 \\ 33.5 \% \end{gathered}$ | $\begin{gathered} 214 \\ 66.5 \% \end{gathered}$ | $\begin{gathered} 322 \\ 100.0 \% \end{gathered}$ |
| London | $\begin{gathered} 14 \\ 4.8 \% \end{gathered}$ | $\begin{gathered} 278 \\ 95.2 \% \end{gathered}$ | $\begin{gathered} 72 \\ 69.2 \% \end{gathered}$ | $\begin{gathered} 32 \\ 30.8 \% \end{gathered}$ | $\begin{gathered} 86 \\ 21.7 \% \end{gathered}$ | $\begin{gathered} 310 \\ 78.3 \% \end{gathered}$ | $\begin{gathered} 396 \\ 100.0 \% \end{gathered}$ |
| Mersey | $\begin{gathered} 16 \\ 17.6 \% \end{gathered}$ | $\begin{gathered} 75 \\ 82.4 \% \end{gathered}$ | $\begin{gathered} 65 \\ 80.2 \% \end{gathered}$ | $\begin{gathered} 16 \\ 19.8 \% \end{gathered}$ | $\begin{gathered} 81 \\ 47.1 \% \end{gathered}$ | $\begin{gathered} 91 \\ 52.9 \% \end{gathered}$ | $\begin{gathered} 172 \\ 100.0 \% \end{gathered}$ |
| North Scotland | $\begin{gathered} 8 \\ 14.3 \% \end{gathered}$ | $\begin{gathered} 48 \\ 85.7 \% \end{gathered}$ | $\begin{gathered} 34 \\ 77 \cdot 3 \% \end{gathered}$ | $\begin{gathered} 10 \\ 22.7 \% \end{gathered}$ | $\begin{gathered} 42 \\ 42.0 \% \end{gathered}$ | $\begin{gathered} 58 \\ 58.0 \% \end{gathered}$ | $\begin{gathered} 100 \\ 100.0 \% \end{gathered}$ |
| North Western | $\begin{gathered} 13 \\ 8.1 \% \end{gathered}$ | $\begin{gathered} 147 \\ 91.9 \% \end{gathered}$ | $\begin{gathered} 84 \\ 57.1 \% \end{gathered}$ | $\begin{gathered} 63 \\ 42.9 \% \end{gathered}$ | $\begin{gathered} 97 \\ 31.6 \% \end{gathered}$ | $\begin{gathered} 210 \\ 68.4 \% \end{gathered}$ | $\begin{gathered} 307 \\ 100.0 \% \end{gathered}$ |
| Northern | $\begin{gathered} 10 \\ 10.3 \% \end{gathered}$ | $\begin{gathered} 87 \\ 89.7 \% \end{gathered}$ | $\begin{gathered} 45 \\ 63.4 \% \end{gathered}$ | $\begin{gathered} 26 \\ 36.6 \% \end{gathered}$ | $\begin{gathered} 55 \\ 32.7 \% \end{gathered}$ | $67 \cdot 3 \%$ | $\begin{gathered} 168 \\ 100.0 \% \end{gathered}$ |
| Northern Ireland | $\begin{gathered} 1 \\ 1.6 \% \end{gathered}$ | $\begin{gathered} 60 \\ 98.4 \% \end{gathered}$ | $\begin{gathered} 0 \\ .0 \% \end{gathered}$ | $\begin{gathered} 2 \\ 100.0 \% \end{gathered}$ | $\begin{gathered} 1 \\ 1.6 \% \end{gathered}$ | $\begin{gathered} 62 \\ 98.4 \% \end{gathered}$ | $\begin{gathered} 63 \\ 100.0 \% \end{gathered}$ |
| Oxford | $\begin{gathered} 3 \\ 4.6 \% \end{gathered}$ | $\begin{gathered} 62 \\ 95.4 \% \end{gathered}$ | $\begin{gathered} 20 \\ 71.4 \% \end{gathered}$ | $\begin{gathered} \hline 8 \\ 28.6 \% \end{gathered}$ | $\begin{gathered} 23 \\ 24.7 \% \end{gathered}$ | $\begin{gathered} 70 \\ 75 \cdot 3 \% \end{gathered}$ | $\begin{gathered} 93 \\ 100.0 \% \end{gathered}$ |
| Severn | $\begin{gathered} 9 \\ 10.0 \% \end{gathered}$ | $\begin{gathered} 81 \\ 90.0 \% \end{gathered}$ | $\begin{gathered} 21 \\ 61.8 \% \end{gathered}$ | $\begin{gathered} 13 \\ 38.2 \% \end{gathered}$ | $\begin{gathered} 30 \\ 24.2 \% \end{gathered}$ | $\begin{gathered} 94 \\ 75.8 \% \end{gathered}$ | $\begin{gathered} 124 \\ 100.0 \% \end{gathered}$ |
| South East Scotland | $\begin{gathered} 2 \\ 3.7 \% \\ \hline \end{gathered}$ | $\begin{gathered} 52 \\ 96.3 \% \end{gathered}$ | $\begin{gathered} 18 \\ 66.7 \% \end{gathered}$ | $\begin{gathered} 9 \\ 33.3 \% \end{gathered}$ | $\begin{gathered} 20 \\ 24.7 \% \end{gathered}$ | $\begin{gathered} 61 \\ 75.3 \% \\ \hline \end{gathered}$ | $\begin{gathered} 81 \\ 100.0 \% \end{gathered}$ |
| South West Peninsula | $\begin{gathered} 2 \\ 4.4 \% \end{gathered}$ | $\begin{gathered} 43 \\ 95.6 \% \end{gathered}$ | $\begin{gathered} 7 \\ 46.7 \% \end{gathered}$ | $\begin{gathered} 8 \\ 53 \cdot 3 \% \end{gathered}$ | $\begin{gathered} 9 \\ 15.0 \% \end{gathered}$ | $\begin{gathered} 51 \\ 85.0 \% \end{gathered}$ | $\begin{gathered} 60 \\ 100.0 \% \end{gathered}$ |
| Wales | $\begin{gathered} 12 \\ 13.0 \% \end{gathered}$ | $\begin{gathered} 80 \\ 87.0 \% \end{gathered}$ | $\begin{gathered} \hline 46 \\ 66.7 \% \end{gathered}$ | $\begin{gathered} 23 \\ 33.3 \% \end{gathered}$ | $\begin{gathered} 58 \\ 36.0 \% \end{gathered}$ | $\begin{gathered} 103 \\ 64.0 \% \end{gathered}$ | $\begin{gathered} 161 \\ 100.0 \% \end{gathered}$ |
| Wessex | $\begin{gathered} 12 \\ 14.3 \% \end{gathered}$ | $\begin{gathered} 72 \\ 85.7 \% \end{gathered}$ | $\begin{gathered} \hline 18 \\ 51.4 \% \end{gathered}$ | $\begin{gathered} 17 \\ 48.6 \% \end{gathered}$ | $\begin{gathered} 30 \\ 25.2 \% \end{gathered}$ | $\begin{gathered} 89 \\ 74.8 \% \end{gathered}$ | $\begin{gathered} 119 \\ 100.0 \% \end{gathered}$ |
| West Midlands | $\begin{gathered} 22 \\ 10.9 \% \end{gathered}$ | $\begin{gathered} 180 \\ 89.1 \% \end{gathered}$ | $\begin{gathered} 148 \\ 61.2 \% \end{gathered}$ | $\begin{gathered} 94 \\ 38.8 \% \end{gathered}$ | $\begin{gathered} 170 \\ 38.3 \% \end{gathered}$ | $\begin{gathered} 274 \\ 61.7 \% \end{gathered}$ | $\begin{gathered} 444 \\ 100.0 \% \end{gathered}$ |
| West Scotland | $\begin{gathered} 6 \\ 5.1 \% \end{gathered}$ | $\begin{gathered} 112 \\ 94.9 \% \end{gathered}$ | $\begin{gathered} 27 \\ 58.7 \% \end{gathered}$ | $\begin{gathered} 19 \\ 41.3 \% \end{gathered}$ | $\begin{gathered} 33 \\ 20.1 \% \end{gathered}$ | $\begin{gathered} 131 \\ 79.9 \% \end{gathered}$ | $\begin{gathered} 164 \\ 100.0 \% \end{gathered}$ |
| Yorkshire \& The Humber | $\begin{gathered} \hline 10 \\ 6.5 \% \end{gathered}$ | $\begin{gathered} 145 \\ 93.5 \% \\ \hline \end{gathered}$ | $\begin{gathered} 62 \\ 61.4 \% \end{gathered}$ | $\begin{gathered} 39 \\ 38.6 \% \end{gathered}$ | $\begin{gathered} 72 \\ 28.1 \% \end{gathered}$ | $\begin{gathered} 184 \\ 71.9 \% \end{gathered}$ | $\begin{gathered} 256 \\ 100.0 \% \end{gathered}$ |
| Total | $\begin{gathered} 197 \\ 9.4 \% \end{gathered}$ | $\begin{gathered} 1903 \\ 90.6 \% \end{gathered}$ | $\begin{gathered} 942 \\ 63.2 \% \end{gathered}$ | $\begin{gathered} 548 \\ 36.8 \% \end{gathered}$ | $\begin{gathered} 1139 \\ 31.7 \% \end{gathered}$ | $\begin{gathered} 2451 \\ 68.3 \% \end{gathered}$ | $\begin{gathered} 3590 \\ 100.0 \% \end{gathered}$ |

2. Graphical Representation of Candidate Scores by Deanery, by source of PMQ

UK Graduates, First Attempt


Non-UK Graduates, First Attempt


All Graduates, All Attempts


## E: Summary of Feedback Statements

The table gives the numbered feedback statements in order of prevalence, overall, and by candidate PMO group (EG $15.6 \%$ of all cases seen by examiners were characterized by the candidate failing to develop a shared management plan.)

| All Candidates $\mathrm{N}=46,670$ Cases | \% within Group |
| :---: | :---: |
| 15 Does not develop a shared management plan, demonstrating an ability to work in partnership with the patient | 15.6\% |
| O2 Does not recognise the issues or priorities in the consultation (for example, the patient's problem, ethical dilemma etc) | 14.9\% |
| 07 Does not develop a management plan (including prescribing and referral) reflecting knowledge of current best practice | 14.7\% |
| 01 Disorganised / unstructured consultation | 11.4\% |
| O3 Shows poor time management | 11.3\% |
| 14 Does not identify or use appropriate psychological or social information to place the problem in context | 10.0\% |
| og Does not demonstrate an awareness of management of risk or make the patient aware of relative risks of different options | 9.7\% |
| 12 Does not identify or explore information about patient's agenda, health beliefs \& preferences | 8.9\% |
| 11 Does not appear to develop rapport or show sensitivity for the patient's feelings | 8.8\% |
| 13 Does not make adequate use of verbal \& non-verbal cues. Poor active listening skills | 8.1\% |
| 06 Does not make the correct working diagnosis or identify an appropriate range of differential possibilities | 7.9\% |
| 16 Does not use language and/or explanations that are relevant and understandable to the patient | 7.8\% |
| 08 Does not make adequate arrangements for follow-up and safety netting | 7.1\% |
| 04 Does not identify abnormal findings or results or fails to recognise their implications | 6.6\% |
| 05 Does not undertake physical examination competently, or use instruments proficiently | 5.4\% |
| 10 Does not attempt to promote good health at opportune times in the consultation | 3.2\% |
| UK Graduates $\mathrm{N}=27,300$ Cases |  |
| 07 Does not develop a management plan (including prescribing and referral) reflecting knowledge of current best practice | 11.4\% |
| O2 Does not recognise the issues or priorities in the consultation (for example, the patient's problem, ethical dilemma etc) | 11.2\% |
| 15 Does not develop a shared management plan, demonstrating an ability to work in partnership with the patient | 11.1\% |
| O3 Shows poor time management | 8.6\% |
| og Does not demonstrate an awareness of management of risk or make the patient aware of relative risks of different options | 7.7\% |
| 14 Does not identify or use appropriate psychological or social information to place the problem in context | 7.7\% |
| 01 Disorganised / unstructured consultation | 6.9\% |
| 06 Does not make the correct working diagnosis or identify an appropriate range of differential possibilities | 6.4\% |
| 12 Does not identify or explore information about patient's agenda, health beliefs \& preferences | 6.1\% |
| 08 Does not make adequate arrangements for follow-up and safety netting | 5.6\% |
| 13 Does not make adequate use of verbal \& non-verbal cues. Poor active listening skills | 5.5\% |
| O4 Does not identify abnormal findings or results or fails to recognise their implications | 5.4\% |
| 11 Does not appear to develop rapport or show sensitivity for the patient's feelings | 5.1\% |
| 05 Does not undertake physical examination competently, or use instruments proficiently | 4.7\% |
| 16 Does not use language and/or explanations that are relevant and understandable to the patient | 3.8\% |
| 10 Does not attempt to promote good health at opportune times in the consultation | 2.8\% |
| Non-UK Graduates $\mathrm{N}=19,370$ Cases |  |
| 15 Does not develop a shared management plan, demonstrating an ability to work in partnership with the patient | 21.9\% |
| 02 Does not recognise the issues or priorities in the consultation (for example, the patient's problem, ethical dilemma etc) | 20.2\% |
| ${ }_{07}$ Does not develop a management plan (including prescribing and referral) reflecting knowledge of current best practice | 19.4\% |
| 01 Disorganised / unstructured consultation | 17.7\% |
| O3 Shows poor time management | 15.0\% |
| 11 Does not appear to develop rapport or show sensitivity for the patient's feelings | 14.1\% |
| 16 Does not use language and/or explanations that are relevant and understandable to the patient | 13.4\% |
| 14 Does not identify or use appropriate psychological or social information to place the problem in context | 13.2\% |
| 12 Does not identify or explore information about patient's agenda, health beliefs \& preferences | 12.8\% |
| og Does not demonstrate an awareness of management of risk or make the patient aware of relative risks of different options | 12.6\% |
| 13 Does not make adequate use of verbal \& non-verbal cues. Poor active listening skills | 11.9\% |
| 06 Does not make the correct working diagnosis or identify an appropriate range of differential possibilities | 9.9\% |
| 08 Does not make adequate arrangements for follow-up and safety netting | 9.2\% |
| 04 Does not identify abnormal findings or results or fails to recognise their implications | 8.3\% |
| 05 Does not undertake physical examination competently, or use instruments proficiently | 6.5\% |
| 10 Does not attempt to promote good health at opportune times in the consultation | 3.7\% |

## 5: Inter-component Statistics and Analytical Statistics of Test Quality

## Inter-component Statistics

Currently it is only possible to make comparisons between the performance of candidates between the AKT and the CSA. Even this is not straightforward: until recently, candidates were able to take the AKT at any time in their training, and the CSA at any time in their final year; thus one candidate may take both tests at about the same time in their training, another might take them two years apart; and of course candidates can have more than one attempt at either test.

That said, many candidates take the AKT early in $\mathrm{ST}_{3}$ and the CSA in the middle of $\mathrm{ST}_{3}$. When numbers are large (hundreds) in this situation, typical correlations between AKT and CSA are around 0.5. An analysis of three years' of CSA and AKT data (first attempts only) showed a correlation between the two components of $0.49(n=1,670)$.

The accompanying scatterplot is an example from these data showing the relationship between the AKT and CSA scores of candidates taking each component for the first time between 2007 and 2010. (The CSA was then in the form described in previous reports, using 12 cases and a passing standard of eight cases passed.)


## Test Quality Information: AKT

Coefficient alpha (and the measurement error estimate) of the three diets of the AKT is straightforwardly calculated. Alpha continues to be very constant and was $.92, .88$ and .89 for the three diets; no items were excluded from any diet due to underperformance; and the SEm was $2.8 \%-2.9 \%$. These quality indicators continue to describe a multi-choice assessment which is performing to an excellent standard.

## Test Quality Information: CSA

Estimating and representing the reliability of a clinical test of the form of the CSA is more difficult using classical psychometric test theory. In a multi-choice test such as the AKT, all the candidates have to respond to all the test items, which are exactly the same for everyone (roughly 1000 candidates/diet). The 'items' (stations or cases) in the CSA are only the same for a day at a time (max 78 candidates), and indeed there are different sets of examiners on each of the three circuits-so there is only true comparability for 26 candidates.

This is of course not at all unusual in a high stakes clinical test, where a variety of imperatives conflict-eg item consistency vs test security and fairness. The number taking the CSA moreover varies considerably between diets.

Thus the quality of the CSA is monitored both qualitatively and quantitatively, the latter at a number of levels of detail with different objectives-but with reliability and fairness always foremost in mind. Reliability (eg an alpha coefficient) is explored with reference to both days and circuits, towards case, palette and examiner monitoring and development. Daily alpha coefficients-probably something which it is fair to assess, combining circuits across examiners-give a reasonable indication of reliability, but they are also very dependent on the variance in candidate ability. And analyses show that the range and variance in ability of candidate groups varies greatly day on day: here, ability can be estimated not just from a rather self-fulfilling analysis of CSA performance, but by looking at predictive surrogates (eg degree origin) and correlates (eg AKT performance). Finally, the alpha coefficient is estimated on the basis of scores which have relatively limited variance ( $0-9$ on a case), tending to minimise the consequent alpha coefficients.

On this basis, overall, in 2010 the CSA daily alpha averaged 0.73 ( 0.70 in 2008, 0.72 in 2009: under the old, 12 -case system). In 2010, the range was 0.56 to 0.85 . (NB Typographical errors corrected from a previous report.)

In 2010-11, over the four diets here reported, the daily alpha coefficient averaged 0.77 , with a range of .64 to .86 . The Standard Error of Measurement ranged by diet from $5.1 \%$ to $5.4 \%$, averaging $5.2 \%$ across diets.

