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2018 Abridged FRC EM Examination Report

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Introduction

As part of the Examinations Subcommittee's aim to provide more information to candidates and increase transparency, the Education and Examinations Committees agreed in October 2018 to produce abridged reports on the performance of FRCM Examinations. The abridged reports will be published on the College website once the full reports have been reviewed by the Education and Examinations Committees, which meet three times a year.

This is the first report to be published and includes information on the standard setting and pass rates. More detailed analysis is planned in future iterations as we develop our reporting capabilities.

Susannah Grant
Head of Examinations

23 November 2018

FRCEM Primary

June 2018

Summary

The 4th FRCEM Primary examination took place on 6th June 2018. 1199 candidates sat the examination, of whom 545 (45.5%) fulfilled the criteria required to pass the examination overall. The pass rate was slightly lower than December 2017 (46.3%).

June 2018 FRCEM Primary statistics

Mean score	90.3	54.04%
Median score	90	
Standard deviation	19.93	12.01%
Candidates	1199	
KR20: (measurement of reliability)	0.914	
Range of marks	37 – 143/166	22.3% - 86.1%
Pass mark derived from Standard Setting	93/166	56%
Pass rate	545/1199	45.5%

14 questions were removed from the Primary paper after marking as they did not perform as expected. The overall pass rate for the FRCEM Primary was 45.5%.

Breakdown of results by training status

	Failed	Passed	Total
In UK Training	51	58 (53.2%)	109
Not in UK Training	603	487 (44.7%)	1090
Total	654	545 (45.5%)	1199

FRCEM Intermediate SAQ

March 2018

Summary

The 5th FRCEM Intermediate Short Answer Question (SAQ) examination took place on 8th March 2018. 933 candidates sat the examination, of whom 329 (35.2%) fulfilled the criteria required to pass the examination overall. The pass rate is higher than September 2017 (32.7%).

March 2018 FRCEM Intermediate SAQ statistics

Mean score	101.4	56.3%
Median score	103.5	57.5%
Standard deviation	19.02	31.7%
Candidates	933	
Cronbach alpha: (measurement of reliability)	0.91	
Standard error of measurement (SEM):	5.69	
Range of marks	17.5 – 146.5	
Pass mark derived from Standard Setting	103.87	57.7%
Pass mark + 5.69 SEM	109.5/180	60.8%
Pass rate	329/933	35.3%

The overall pass rate for the FRCEM Intermediate SAQ was 35.3%.

Breakdown of results by training number (%)

	Failed	Passed	Total
In UK Training	45	144 (76.1%)	189
Not in Training	559	185 (24.8%)	744
Total	604	329 (35.3%)	933

The report for the September 2018 diet will be available after it has been reviewed by the Examinations Committee.

FRCEM Intermediate SJP

March 2018

Summary

The 2nd FRCEM Intermediate Situational Judgement Paper (SJP) examination took place on 8th March 2018. 298 candidates sat the examination, of whom 151 (50.7%) fulfilled the criteria required to pass the examination overall. The pass rate is lower than September 2017 (67.1%).

March 2018 FRCEM Intermediate SJP statistics

Mean score	387.67	81%
Median score	393	89.5%
Standard deviation	24.09	20.1%
Candidates	298	
Cronbach alpha: (measurement of reliability)	0.80	
Standard error of measurement (SEM):	10.71	
Range of marks	272 - 430	56.6% - 90%
Pass mark derived from Standard Setting	382.1/480	79.6%
Pass mark + 1 SEM	392.8/480	81.8%
Pass rate	151/298	50.7%

The overall pass rate for the FRCEM Intermediate SJP was 50.7%.

Breakdown of results by training number (%)

	Failed	Passed	Total
In Training	72	122 (62.9%)	194
Not in Training	75	29 (27.9%)	104
Total	147	151 (50.7%)	298

The report for the September 2018 diet will be available after it has been reviewed by the Examinations Committee.

FRCEM Final SAQ

FRCEM Final SAQ

March 2018

Summary

The 25th FRCEM Final Short Answer Question (SAQ) examination took place on 16th March 2018. 256 candidates took the examination, of whom 119 (46.9%) fulfilled the criteria required to pass the examination overall.

March 2018 FRCEM Final SAQ statistics

Mean score	117.4	65.2%
Median score	117.1	56.0%
Standard deviation	15.02	25.0%
Candidates	256	
Cronbach alpha: (measurement of reliability)	0.87	
Standard error of measurement (SEM):	5.44	
Range of marks	70.5 – 152 / 180	39.16% - 84.4%
Pass mark derived from Standard Setting	115.5	45.1%
Pass mark + 5.4 SEM	121	67.2%
Pass rate	119/254	(46.9%)

The overall pass rate for the FRCEM Final SAQ was 46.9%.

Breakdown of results by training number (%)

	Failed	Passed	Total
In Training	33	64 (66%)	97
Not in Training	102	55 (35%)	157
Total	135	119 (46.9%)	254

FRCEM Final SAQ

September 2018

Summary

The 26th FRCEM Final SAQ examination took place on 6th September 2018. 244 candidates took the examination, of whom 143 (58.6%) fulfilled the criteria required to pass the examination overall.

September 2018 FRCEM Final SAQ statistics

Mean score	121.36	79.3%
Median score	122	79.7%
Standard deviation	12.32	20.5%
Candidates	244	
Cronbach alpha: (measurement of reliability)	0.85	
Standard error of measurement (SEM):	4.74	
Range of marks	71.5 - 153	46.7%/85%
Pass mark derived from Standard Setting	115.5	
Pass mark + 4.7 SEM	120	66.7%
Pass rate	143/244	58.6%

Breakdown of results by training status

	Failed	Passed	Total
In Training (UK)	36	92 (72%)	128
Not in Training	65	51 (44%)	116
Total	101	143	244

FRCEM Final Critical Appraisal

FRCEM FINAL Critical Appraisal

March 2018

Summary

The 25th FRCEM Final Critical Appraisal (CA) examination took place on 16th March 2018. 327 candidates took the examination, of whom 207 (63.3%) fulfilled the criteria required to pass the examination overall.

March 2018 FRCEM Final Critical Appraisal statistics

Mean score	2.64	
Median score	2.71	
Standard deviation	2.67	
Candidates	327	
Cronbach alpha: (measurement of reliability)	0.61	
Range of marks	1.14 – 3.86	
Pass mark	Average >2.5	
Pass rate	207/327	63.3%

Breakdown of results by training number (%)

	Failed	Passed	Total
In Training	54	143 (72.6%)	197
Not in Training	66	64 (49.2%)	130
Total	120	207 (63.3%)	327

FRCEM Final Critical Appraisal

September 2018

Summary

The 26th FRCEM Final Critical Appraisal examination took place on 6th September 2018. 232 candidates took the examination, of whom 121 (52.5%) fulfilled the criteria required to pass the examination overall.

September 2018 FRCEM Final Critical Appraisal statistics

Mean score	2.49	
Median score	2.57	
Standard deviation	4.38	
Candidates	232	
Cronbach alpha: (measurement of reliability)	0.66	
Range of marks	1.14/ 3.86	
Pass mark	Average >2.5	
Pass rate	121/232	52.2%

Breakdown of results by training status

	Failed	Passed	Total
In Training (UK)	46	70 (60%)	116
Not in Training	65	51 (44%)	116
Total	111	121 (53%)	232

FRCEM Final OSCE

May 2018

Summary

The FRCEM OSCE UK examination took place between 2nd – 11th May. 151 candidates took the examination, of whom 120 (79%) fulfilled the criteria required to pass the examination overall.

Borderline Regression

The College uses the borderline regression method to standard set both the FRCEM and MRCEM OSCE examinations. The content of the examination differs each day and therefore the pass mark is calculated per day, dependent on the combination of stations examined. All OSCE stations are equally weighted, with the double stations counting as two stations.

FRCEM OSCE statistics

2nd May 2018

Standard deviation	10.46	
Candidates	24	
Cronbach alpha: (measurement of reliability)	0.83	
Standard error of measurement (SEM):	4.36	
Range of marks	107-138	
Pass mark derived from Standard Setting	104.98	
Pass mark + 4.36 SEM	109.34	
Pass rate	21/24	88%

3rd May 2018

Standard deviation	9.90	
Candidates	18	
Cronbach alpha: (measurement of reliability)	0.72	
Standard error of measurement (SEM):	5.25	
Range of marks	102-133	
Pass mark derived from Standard Setting	103.49	
Pass mark + 5.25 SEM	108.74	
Pass rate	12/18	67%

4th May 2018

Standard deviation	11.87	
Candidates	20	
Cronbach alpha: (measurement of reliability)	0.80	
Standard error of measurement (SEM):	5.24	
Range of marks	91-134	
Pass mark derived from Standard Setting	106.27	
Pass mark + 5.24 SEM	111.51	
Pass rate	15/20	75%

8th May 2018

Standard deviation	9.12	
Candidates	23	
Cronbach alpha: (measurement of reliability)	0.62	
Standard error of measurement (SEM):	5.59	
Range of marks	95-129	
Pass mark derived from Standard Setting	103	
Pass mark + 5.59 SEM	108.59	
Pass rate	16/23	70%

9th May 2018

Standard deviation	7.91	
Candidates	22	
Cronbach alpha: (measurement of reliability)	0.58	
Standard error of measurement (SEM):	5.15	
Range of marks	106-133	
Pass mark derived from Standard Setting	106.16	
Pass mark + 5.15 SEM	111.31	
Pass rate	19/22	86%

10th May 2018

Standard deviation	10.84	
Candidates	23	
Cronbach alpha: (measurement of reliability)	0.77	
Standard error of measurement (SEM):	5.24	
Range of marks	93-137	
Pass mark derived from Standard Setting	105.89	
Pass mark + 5.24 SEM	111.13	
Pass rate	18/23	78%

11th May 2018

Standard deviation	8.75	
Candidates	21	
Cronbach alpha: (measurement of reliability)	0.72	
Standard error of measurement (SEM):	4.63	
Range of marks	104-136	
Pass mark derived from Standard Setting	103.40	
Pass mark +4.63 SEM	108.03	
Pass rate	19/21	90%

MRCEM OSCE

MRCEM OSCE UK

January 2018

Summary

The 11th MRCEM OSCE UK examination took place between 30th January 2018 – 1st February 2018. 86 candidates took the examination, of whom 70 (81.4%) fulfilled the criteria required to pass the examination overall.

MRCEM OSCE UK statistics

30th January 2018

Mean score	128.1	
Median score	116.0	
Standard deviation	13.06	
Candidates	30	
Cronbach alpha: (measurement of reliability)	0.86	
Standard error of measurement (SEM):	4.93	
Range of marks	99.7– 149.0/553	
Pass mark derived from Standard Setting	110.97	
Pass mark + 4.93 SEM	115.9	
Pass rate	25/30	83%

31st January 2018

Mean score	128	
Median score	114.5	
Standard deviation	16.71	
Candidates	29	
Cronbach alpha: (measurement of reliability)	0.92	
Standard error of measurement (SEM):	4.82	
Range of marks	80.4– 154.0/550	
Pass mark derived from Standard Setting	111.92	
Pass mark + 4.82 SEM	116.74	
Pass rate	24/29	83%

1st February 2018

Mean score	124.3	
Median score	113.1	
Standard deviation	14.07	
Candidates	27	
Cronbach alpha: (measurement of reliability)	0.89	
Standard error of measurement (SEM):	4.58	
Range of marks	92.2– 143.2/545	
Pass mark derived from Standard Setting	109	
Pass mark + 4.58 SEM	113.58	
Pass rate	21/27	78%

Breakdown of results by training number (%)

	Failed	Passed	Total
In Training (UK)	0	26 (100%)	26
Not in Training	16	44 (73%)	60
Total	16	70 (81%)	86

MRCEM OSCE UK

April 2018

Summary

The 12th MRCEM OSCE UK examination took place between 24th – 26th April 2018. 77 candidates took the examination, of whom 63 (82%) fulfilled the criteria required to pass the examination overall.

MRCEM OSCE statistics

24th April 2018

Standard deviation	10.18	
Candidates	26	
Cronbach alpha: (measurement of reliability)	0.80	
Standard error of measurement (SEM):	4.54	
Range of marks	107-147	
Pass mark derived from Standard Setting	108.79	
Pass mark + 4.54 SEM	113.33	
Pass rate	22/26	85%

25th April 2018

Standard deviation	11.58	
Candidates	26	
Cronbach alpha: (measurement of reliability)	0.84	
Standard error of measurement (SEM):	4.57	
Range of marks	101-139	
Pass mark derived from Standard Setting	110.39	
Pass mark + 4.57 SEM	114.96	
Pass rate	20/26	77%

26th April 2018

Standard deviation	12.28	
Candidates	25	
Cronbach alpha: (measurement of reliability)	0.87	
Standard error of measurement (SEM):	4.34	
Range of marks	142-85	
Pass mark derived from Standard Setting	114.75	
Pass mark + 4.34 SEM	119.09	
Pass rate	21/25	84%

Breakdown of results by training number (%)

	Failed	Passed	Total
In Training (UK)	3	16 (84%)	19
Not in Training	11	47 (81%)	58
Total	14	63 (82%)	77

MRCEM OSCE UK

June 2018

Summary

The 13th MRCEM OSCE UK examination took place between 11th –13th June 2018. 74 candidates took the examination, of whom 53 (71.6%) fulfilled the criteria required to pass the examination overall.

MRCEM OSCE statistics

11th June 2018

Mean score	126.74	
Median score	127.16	
Standard deviation	12.43	
Candidates	23	
Cronbach alpha: (measurement of reliability)	0.86	
Standard error of measurement (SEM):	4.66	
Range of marks	104.13 – 143.71	
Pass mark derived from Standard Setting	113.99	
Pass mark + 4.66 SEM	118.65	
Pass rate	17/23	74%

12th June 2018

Mean score	125.11	
Median score	120.00	
Standard deviation	13.88	
Candidates	24	
Cronbach alpha: (measurement of reliability)	0.88	
Standard error of measurement (SEM):	4.79	
Range of marks	89.93 – 146.42	
Pass mark derived from Standard Setting	110.46	
Pass mark + 4.79 SEM	115.26	
Pass rate	17/24	71%

13th June 2018

Mean score	124.57	
Median score	128.54	
Standard deviation	16.97	
Candidates	27	
Cronbach alpha: (measurement of reliability)	0.92	
Standard error of measurement (SEM):	4.90	
Range of marks	84.85 – 154.03	
Pass mark derived from Standard Setting	113.13	
Pass mark + 4.90 SEM	118.03	
Pass rate	19/27	70%

Breakdown of results by training status

	Failed	Passed	Total
In Training (UK)	1	23 (95.8%)	24
Not in Training	20	30 (60%)	50
Total	21	53 (71.6%)	74

MRCEM OSCE - India

June 2018

Summary

The MRCEM OSCE examination in India took place between 18th – 21st June 2018 in Chennai and Kochi. 240 candidates took the examination, of whom 157 (65.4%) fulfilled the criteria required to pass the examination overall.

MRCEM OSCE India statistics

18th June 2018

Mean score	119.47	
Median score	123.96	
Standard deviation	13.97	
Candidates	60	
Cronbach alpha: (measurement of reliability)	0.78	
Standard error of measurement (SEM):	6.54	
Range of marks	84.24 – 154.31	
Pass mark derived from Standard Setting	113.27	
Pass mark + 6.54 SEM	119.81	
Pass rate	37/60	62%

19th June 2018

Mean score	117.16	
Median score	121.13	
Standard deviation	15.64	
Candidates	61	
Cronbach alpha: (measurement of reliability)	0.82	
Standard error of measurement (SEM):	6.57	
Range of marks	69.14 – 147.46	
Pass mark derived from Standard Setting	112.04	
Pass mark + 6.57 SEM	118.61	
Pass rate	34/61	56%

20th June 2018

Mean score	124.01	
Median score	128.17	
Standard deviation	14.67	
Candidates	63	
Cronbach alpha: (measurement of reliability)	0.83	
Standard error of measurement (SEM):	6.06	
Range of marks	83.89 – 157.13	
Pass mark derived from Standard Setting	113.57	
Pass mark + 6.06 SEM	119.63	
Pass rate	45/63	71%

21st June 2018

Mean score	124.59	
Median score	129.01	
Standard deviation	14.47	
Candidates	56	
Cronbach alpha: (measurement of reliability)	0.86	
Standard error of measurement (SEM):	6.27	
Range of marks	91.95 – 156.83/	
Pass mark derived from Standard Setting	112.31	
Pass mark + 6.27 SEM	118.58	
Pass rate	41/56	73%

Report Ends