



The Royal College of Emergency Medicine

Patron: HRH The Princess Royal

7-9 Breams Buildings
London
EC4A 1DT

Tel +44 (0)207 404 1999
Fax +44 (0)207 067 1267
www.rcem.ac.uk

2019 Abridged FRCM 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 second 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

12 June 2020

FRCEM Primary

June 2019

Summary

The 7th FRCEM Primary examination took place on 13th June 2019. 1245 candidates took the examination, of whom 722 (58%) fulfilled the criteria required to pass the examination overall.

6 questions were removed from the Primary paper after review of the item analysis, leaving 174 marks achievable for this examination.

Mean score	101.6	58.4%
Median score	103	59.1%
Standard deviation	25.9	14.9%
Candidates	1245	
KR20: (measurement of reliability)	0.949	
Range of marks	37 – 161	21.2% - 92.6%
Pass mark derived from Standard Setting	98.4	56.6%
Pass rate	722 / 1245	58%

FRCEM Primary statistics

Training	Failed	Passed	Total
In UK Training	23	87 (79%)	110
Not in Training	73	134 (65 %)	207
Overseas	427	501 (54%)	928
Total	523	722 (58%)	1245

PMQ Qualified	Failed	Passed	Total
UK	47	205 (82%)	252
Non-UK	476	517 (52%)	993

FRCEM Primary

December 2019

Summary

The 8th FRCEM Primary examination took place on 5th December 2019. 1292 candidates took the examination, of whom 812 (62.8%) fulfilled the criteria required to pass the examination overall.

5 questions were removed from the Primary paper after review of the item analysis, leaving 175 marks achievable for this examination.

Mean score	104	59.4%
Median score	105	60%
Standard deviation	25	14.3%
Candidates	1292	
KR20: (measurement of reliability)	0.946	
Range of marks	36 – 160	21% - 91%
Pass mark derived from Standard Setting	97.0	55.4%
Pass rate	812/1292	62.8%

FRCEM Primary statistics

Training	Failed	Passed	Total
In Training	39	93 (70%)	132
Not in Training	61	215 (78%)	276
Overseas	380	504 (57%)	884
Total	480	812 (63%)	1292

PMQ Qualified	Failed	Passed	Total
UK	46	213 (82%)	259
Non-UK	434	599 (58%)	1033

FRCEM Intermediate SAQ

6th March 2019

Summary

The 7th FRCEM Intermediate Short Answer Question (SAQ) examination took place on 6th March 2019. 1144 candidates sat the examination, of whom 518 (45.3%) fulfilled the criteria required to pass the examination overall.

0 questions were removed from the SAQ paper after review of the item analysis and there were 180 marks achievable for this examination.

Mean score	106.2	59%
Median score	108	60%
Standard deviation	17.3	28.8%
SEM	5.89	
Candidates	1144	
Cronbach alpha:(measurement of reliability)	0.88	
Range of marks	40 – 146.5	22.2% - 81.4%
Pass mark derived from Standard Setting	107.3	59.6%
Pass mark + SEM (Rounded)	113.0	62.8%
Pass rate	518 / 1144	45.3%

FRCEM Intermediate SAQ statistics

Training	Failed	Passed	Total
In UK Training	52	105 (67%)	157
Not in Training	55	207 (79%)	262
Overseas	519	206 (28%)	725
Total	626	518 (45%)	1144

PMQ Qualified	Failed	Passed	Total
UK	45	163 (78%)	208
Non-UK	581	355 (38%)	936

FRCEM Intermediate SAQ

17th September 2019

Summary

The 8th FRCEM Intermediate Short Answer Question (SAQ) examination took place on 17th September 2019. 1193 candidates sat the examination, of whom 615 (51.6%) fulfilled the criteria required to pass the examination overall.

0 questions were removed from the SAQ paper after review of the item analysis and there were 180 marks achievable for this examination.

Mean score	114.6	63.6%
Median score	117.5	65.2%
Standard deviation	17.2	28.6%
SEM	5.32	
Candidates	1193	
Cronbach alpha:(measurement of reliability)	0.90	
Range of marks	27.5 – 150	15.2% - 83.3%
Pass mark derived from Standard Setting	111.7	62%
Pass mark + SEM (Rounded)	117.0	65%
Pass rate	615 / 1193	51.6%

FRCEM Intermediate SAQ statistics

Training	Failed	Passed	Total
In Training	49	97 (66.4%)	146
Not in Training	24	56 (70%)	80
Overseas	505	462 (47.7%)	967
Total	578	615 (51.6%)	1193

PMQ Qualified	Failed	Passed	Total
UK	50	132 (73%)	182
Non-UK	528	483 (48%)	1011

FRCEM Intermediate SJP

6th March 2019

Summary

The 4th FRCEM Intermediate Situational Judgement Paper (SJP) examination took place on 6th March 2019. 327 candidates sat the examination, of whom 172 (52.6%) fulfilled the criteria required to pass the examination overall.

1 question was removed from the SJP paper after review of the item analysis leaving 476 marks achievable for this examination.

FRCEM Intermediate SJP statistics

Mean score	370	77.7%
Median score	375	77.8%
Standard deviation	22.26	18.7%
Candidates	327	
Cronbach alpha:(measurement of reliability)	0.78	
Standard error of measurement (SEM):	10.35	
Range of marks	278 – 418	58.4% - 87.8%
Pass mark derived from Standard Setting	363.14	76.3%
Pass mark + SEM (Rounded)	374.0	78.6%
Pass rate	172 / 327	52.6%

Training	Failed	Passed	Total
In Training	46	81 (64%)	127
Not in Training	109	91 (45%)	200
Total	155	172 (53%)	327

PMQ Qualified	Failed	Passed	Total
UK	41	138 (77%)	179
Non-UK	114	34 (23%)	148

FRCEM Intermediate SJP

17th September 2019

Summary

The 5th FRCEM Intermediate Situational Judgement Paper (SJP) examination took place on 17th September 2019. 395 candidates sat the examination, of whom 225 (57%) fulfilled the criteria required to pass the examination overall.

2 questions were removed from the SJP paper after review of the item analysis, leaving 472 marks achievable for this examination.

FRCEM Intermediate SJP statistics

Mean score	372	78.8%
Median score	376	79.7%
Standard deviation	26.29	22.3%
Candidates	395	
Cronbach alpha:(measurement of reliability)	0.83	
Standard error of measurement (SEM):	10.92	
Range of marks	275-424	58.3%-89.8%
Pass mark derived from Standard Setting	361.55	
Pass mark + SEM (Rounded)	372.0	
Pass rate	225	57.0%

Training	Failed	Passed	Total
In Training	38	113 (75%)	151
Not in Training	132	112 (46%)	244
Total	170	225 (57%)	395

PMQ Qualified	Failed	Passed	Total
UK	18	167 (90%)	185
Non-UK	152	58 (27%)	210

FRCEM Final Critical Appraisal

14th March 2019

Summary

The 27th FRCEM Final Critical Appraisal examination took place on 14 March 2019. 401 candidates took the examination, of whom 269 (67.1%) fulfilled the criteria required to pass the examination overall.

FRCEM FINAL Critical Appraisal statistics

Mean Weighted Score	2.73
Median Weighted Score	2.71
Standard Deviation	0.52
Candidates	401
Range of marks	1 – 3.86
Pass mark	Overall Average >2.5
Pass rate	67.1%

Training	Failed	Passed	Total
In Training	59	171 (74%)	230
Not in Training	73	98 (57%)	171
Total	132	269 (67%)	401

PMQ Qualified	Failed	Passed	Total
UK	91	199 (69%)	290
Non-UK	41	70 (63%)	111

FRCEM Final Critical Appraisal

September 2019

Summary

The 28th FRCEM Final Critical Appraisal examination took place on 3rd September 2019 261 candidates took the examination, of whom 90 (34.4%) fulfilled the criteria required to pass the examination overall.

FRCEM FINAL Critical Appraisal statistics

Mean Weighted score	2.29
Median Weighted score	2.29
Standard deviation	0.64
Candidates	261
Range of marks	1.00-400
Pass mark	Overall Average >2.5
Pass rate	34.4%

Training	Failed	Passed	Total
In Training	91	65 (42%)	156
Not in Training	80	25 (24%)	105
Total	171	90 (34.4%)	261

PMQ Qualified	Failed	Passed	Total
UK	56	57 (50%)	113
Non-UK	115	33 (22%)	148

FRCEM Final SAQ

14 March 2019

Summary

The 27th FRCEM Final SAQ examination took place on 14 March 2019. 252 candidates took the examination, of whom 102 (40.5%) fulfilled the criteria required to pass the examination overall.

1 question was removed from the SAQ paper after review of the item analysis leaving 177 marks achievable for this examination.

FRCEM Final SAQ statistics

Mean score	107.1	60.5%
Median score	108.0	61%
Standard deviation	12.46	
Candidates	252	
Cronbach alpha: (measurement of reliability)	0.845	
Range of marks	61 – 139	34.5% - 78.5%
Pass mark derived from Standard Setting	112.0	63.3%
Pass rate	102/252	40.5%

Training	Failed	Passed	Total
In Training	60	68 (53%)	128
Not in Training	90	34 (27%)	124
Total	150	102 (40%)	252

PMQ Qualified	Failed	Passed	Total
UK	55	42 (43%)	97
Non-UK	95	60 (39%)	155

FRCEM Final SAQ

3 September 2019

Summary

The 10th FRCEM Final Short Answer Question (SAQ) examination took place on 3rd September 2019. 283 (61.8%) fulfilled the criteria required to pass the examination overall.

0 questions were removed from the SAQ paper after review of the item analysis and there were 180 marks achievable for this examination.

FRCEM Final SAQ statistics

Mean score	125.7	69.8%
Median score	127	70.5%
Standard deviation	12.27	
Candidates	283	
Cronbach alpha: (measurement of reliability)	0.84	
Range of marks	73 – 157	40.5% - 87.2%
Pass mark derived from Standard Setting	123.0	68.3%
Pass rate	175/283	61.8%

Training	Failed	Passed	Total
In Training	46	114 (69%)	165
Not in Training	62	61 (52%)	118
Total	108	175 (62%)	283

PMQ Qualified	Failed	Passed	Total
UK	32	102 (76%)	134
Non-UK	76	73 (49%)	149

FRCEM Final OSCE

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. There are 160 marks achievable for this examination.

April / May 2019

Summary

The FRCEM OSCE examination took place between 29th April – 3rd May 2019. 136 candidates took the examination, of whom 94 (69.1%) fulfilled the criteria required to pass the examination overall.

FRCEM Final OSCE statistics

29th April 2019

Mean score	106.22	66.4%
Median score	114.11	71.3%
Standard deviation	11.68	
Candidates	29	
Cronbach alpha: (measurement of reliability)	0.82	
Standard error of measurement (SEM):	4.91	
Range of marks	87.49 – 13	54.7% - 84.4%
Pass mark derived from Standard Setting	103.13	64.5%
Pass mark + SEM	108.04	67.5%
Pass rate	16/29	55.2%

30th April 2019

Mean score	107.16	67%
Median score	114.77	71.7%
Standard deviation	10.28	
Candidates	26	
Cronbach alpha: (measurement of reliability)	0.77	
Standard error of measurement (SEM):	4.93	
Range of marks	98.40 – 141.05	61.5% - 88.2%
Pass mark derived from Standard Setting	102.88	64.3%
Pass mark + SEM	107.82	67.4%
Pass rate	20/26	76.9%

1st May 2019

Mean score	104.22	65.1%
Median score	114.25	71.4%
Standard deviation	13.00	
Candidates	29	
Cronbach alpha: (measurement of reliability)	0.86	
Standard error of measurement (SEM):	4.94	
Range of marks	80.89 –104.22	50.5% - 65.1%
Pass mark derived from Standard Setting	101.56	63.5%
Pass mark + SEM	106.51	66.6%
Pass rate	19/29	65.5%

2nd May 2019

Mean score	108.49	67.8%
Median score	114.49	71.6%
Standard deviation	11.82	
Candidates	26	
Cronbach alpha: (measurement of reliability)	0.82	
Standard error of measurement (SEM):	5.01	
Range of marks	80.43 –129.77	50.3% - 81.1%
Pass mark derived from Standard Setting	101.42	63.4%
Pass mark + SEM	106.43	66.5%
Pass rate	18/26	69.2%

3rd May 2019

Mean score	111.46	69.7%
Median score	115.58	72.2%
Standard deviation	9.07	
Candidates	26	
Cronbach alpha: (measurement of reliability)	0.75	
Standard error of measurement (SEM):	4.55	
Range of marks	93.76 - 131.97	58.6% - 82.5%
Pass mark derived from Standard Setting	102.27	63.9%
Pass mark + SEM	106.82	66.8%
Pass rate	21 / 26	80.8%

Training	Failed	Passed	Total
In Training	36	90 (71.6%)	116
Not in Training	6	4 (40%)	10
Total	42	94 (69.1%)	136

FRCEM Final OSCE

October / November 2019

Summary

The FRCEM OSCE examination took place between 31st October – 8th November 2019. 186 candidates took the examination, of whom 141 (75.8%) fulfilled the criteria required to pass the examination overall. There are 160 marks achievable for this examination.

FRCEM Final OSCE statistics

Thursday 31st October 2019

Mean score	120.99	75.61%
Median score	121.48	76%
Standard deviation	8.47	
Candidates	26	
Cronbach alpha: (measurement of reliability)	0.68	
Standard error of measurement (SEM):	4.82	
Range of marks	105.73–137.82	66% - 86.13%
Pass mark derived from Standard Setting	105.66	66%
Pass mark + 4.82 SEM	110.48	69.05%
Pass rate	24 / 26	92.3%

Friday 1st November 2019

Mean score	118.7	74.18%
Median score	119.95	74.96%
Standard deviation	8.64	
Candidates	27	
Cronbach alpha: (measurement of reliability)	0.77	
Standard error of measurement (SEM):	4.12	
Range of marks	101 – 130.91	63.1% - 81.8%
Pass mark derived from Standard Setting	104.62	65.3%
Pass mark + 4.12 SEM	108.74	68%
Pass rate	23 / 27	85.1%

Monday 4th November 2019

Mean score	119	74.3%
Median score	122.19	76.3%
Standard deviation	13.81	
Candidates	26	
Cronbach alpha: (measurement of reliability)	0.89	
Standard error of measurement (SEM):	4.64	
Range of marks	68.06 – 134.46	42.53% - 84.03%
Pass mark derived from Standard Setting	106.67 / 160	66.6%
Pass mark + 4.64 SEM	111.31 / 160	69.5%
Pass rate	22 / 26	84.61%

Tuesday 5th November 2019

Mean score	114.88	71.8%
Median score	118.45	74.03%
Standard deviation	11.65	
Candidates	27	
Cronbach alpha: (measurement of reliability)	0.84	
Standard error of measurement (SEM):	4.70	
Range of marks	82.33 – 131.21	51.4% - 82.0%
Pass mark derived from Standard Setting	105.83	66.14%
Pass mark + 4.70 SEM	110.53	69.08%
Pass rate	18 / 27	66.6%

Wednesday 6th November 2019

Mean score	115.77	72.3%
Median score	116.73	73%
Standard deviation	8.54	
Candidates	26	
Cronbach alpha: (measurement of reliability)	0.72	
Standard error of measurement (SEM):	4.54	
Range of marks	91.42 – 129.06	57.1% - 80.66%
Pass mark derived from Standard Setting	106.31	66.4%
Pass mark +4.54 SEM	110.85	69.2%
Pass rate	20 / 26	77%

Thursday 7th November 2019

Mean score	118.54	74.08%
Median score	119.32	74.57%
Standard deviation	10.24	
Candidates	28	
Cronbach alpha: (measurement of reliability)	0.76	
Standard error of measurement (SEM):	4.99	
Range of marks	94.66 – 135.76	59.1% - 84.85%
Pass mark derived from Standard Setting	107.60	67.25%
Pass mark + 4.99 SEM	112.60	70.37%
Pass rate	20 / 28	71.4%

Friday 8th November 2019

Mean score	116.57	72.8%
Median score	115.74	72.3%
Standard deviation	12.28	
Candidates	26	
Cronbach alpha: (measurement of reliability)	0.77	
Standard error of measurement (SEM):	5.86	
Range of marks	91.75 – 134.67	57.3% - 84.1%
Pass mark derived from Standard Setting	105.38	65.8%
Pass mark + 5.86 SEM	111.24	69.5%
Pass rate	16 / 26	61.5%

Training	Failed	Passed	Total
In Training	15	116 (94%)	123
Not in Training	30	25 (45%)	55
Total	45	141 (76%)	186

MRCEM OSCE

January 2019

MRCEM OSCE (UK)

Summary

The 14th MRCEM OSCE UK examination took place on 28th and 29th January 2019. 55 candidates took the examination, of whom 43 fulfilled the criteria required to pass the examination overall. There were 180 marks achievable for this examination.

MRCEM OSCE (UK)- Statistics

Monday 28th January 2019

Mean score	128.64	71.4%
Median score	131.27	72.9%
Standard deviation	13.2	
Candidates	30	
Cronbach alpha: (measurement of reliability)	0.88	
Standard error of measurement (SEM):	4.52	
Range of marks	94.65 - 149.48	52.5%-83%
Pass mark derived from Standard Setting	113.78	63.2%
Pass mark + 4.52 SEM	118.3	65.7%
Pass rate	24/30	80%

Tuesday 29th January 2019

Mean score	124.92	69.4%
Median score	125.99	69.9%
Standard deviation	11.37	
Candidates	25	
Cronbach alpha: (measurement of reliability)	0.86	
Standard error of measurement (SEM):	4.29	
Range of marks	104.21 -144.26	57.8% - 80.1%
Pass mark derived from Standard Setting	111.62	62%
Pass mark + 4.29 SEM	115.91	64.3%
Pass rate	19/25	76%

Training	Failed	Passed	Total
In Training	0	7 (100%)	7
Not in Training	12	36 (75%)	48
Total	12	43 (78.2%)	55

MRCEM OSCE (UK)

June 2019

Summary

The 14th MRCEM OSCE UK examination took place on 11th & 12th June 2019. 54 candidates took the examination, of whom 40 fulfilled the criteria required to pass the examination overall. There were 180 marks achievable for this examination.

MRCEM OSCE (UK)- Statistics

Tuesday 11 June 2019

Mean score	123.33	68.5%
Median score	120.07	66.7%
Standard deviation	13.60	
Candidates	24	
Cronbach alpha: (measurement of reliability)	0.87	
Standard error of measurement (SEM):	4.88	
Range of marks	96.07 – 143.20	
Pass mark derived from Standard Setting	107.92	60%
Pass mark + 4.88 SEM	112.8	62.6%
Pass rate	15 / 24	62.5%

Wednesday 12 June 2019

Mean score	125.18	69.5%
Median score	125.29	69.6%
Standard deviation	10.83	
Candidates	30	
Cronbach alpha: (measurement of reliability)	0.82	
Standard error of measurement (SEM):	4.57	
Range of marks	104.23 – 148.03	
Pass mark derived from Standard Setting	110.74	61.5%
Pass mark + 4.57 SEM	115.31	64%
Pass rate	25 / 30	83.3%

	Failed	Passed	Total
In Training	0	4	4 (100%)
Not in Training	14	36	50 (72%)
Total	14	40	54 (74%)

MRCEM OSCE (India)

July 2019

Summary

The 15th MRCEM OSCE examination took place in Chennai between 1st – 4th July 2019. 132 candidates took the examination, of whom 119 (90.15%) fulfilled the criteria required to pass the examination overall. There were 180 marks achievable for this examination.

MRCEM OSCE (India) statistics

Monday 1st July 2019

Mean score	132.65	73.6%
Median score	132.77	73.7%
Standard deviation	11.81	
Candidates	34	
Cronbach alpha: (measurement of reliability)	0.82	
Standard error of measurement (SEM):	4.97	
Range of marks	117.81 – 151.26	
Pass mark derived from Standard Setting	112.83	62.6%
Pass mark + 4.97 SEM	117.80	65.4%
Pass rate	32 / 34	94.1%

Tuesday 2nd July 2019

Mean score	132.81	73.7%
Median score	132.54	73.6%
Standard deviation	9.31	
Candidates	32	
Cronbach alpha: (measurement of reliability)	0.70	
Standard error of measurement (SEM):	5.09	
Range of marks	113.98 – 151.29	
Pass mark derived from Standard Setting	112.2	62.3%
Pass mark + 5.09 SEM	117.30	65.1%
Pass rate	29 / 32	90.6%

Wednesday 3rd July 2019

Mean score	131.07	72.8%
Median score	131	72.7%
Standard deviation	12.89	
Candidates	33	
Cronbach alpha: (measurement of reliability)	0.85	
Standard error of measurement (SEM):	4.97	
Range of marks	98.21 – 153.95	
Pass mark derived from Standard Setting	114.35	63.5%
Pass mark + 4.97 SEM	119.32	66.2%
Pass rate	29 / 33	88%

Thursday 4th July 2019

Mean score	132.57	73.6%
Median score	134.96	75%
Standard deviation	13.06	
Candidates	33	
Cronbach alpha: (measurement of reliability)	0.88	
Standard error of measurement (SEM):	4.49	
Range of marks	105.11 – 157.21	
Pass mark derived from Standard Setting	112.31	62.3%
Pass mark + 4.49 SEM	116.80	64.8%
Pass rate	29 / 33	88%

MRCEM OSCE (India)

November 2019

Summary

The 16th MRCEM OSCE examination took place in Mumbai between 18th – 20th November 2019. 107 candidates took the examination, of whom 82 (79.6%) fulfilled the criteria required to pass the examination overall. There were 180 marks achievable for this examination.

MRCEM OSCE (India) statistics

Monday 18th November 2019

Mean score	130.98	73%
Median score	132.17	73.4%
Standard deviation	12.75	
Candidates	35	
Cronbach alpha: (measurement of reliability)	0.81	
Standard error of measurement (SEM):	5.58	
Range of marks	94.10 – 151.22	52.2% - 84.01%
Pass mark derived from Standard Setting	117.78	65.4%
Pass mark + 5.58 SEM	123.36	68.5%
Pass rate	25 / 35	71.4%

Tuesday 19th November 2019

Mean score	127.20	70.6%
Median score	128.33	71.29%
Standard deviation	10.23	
Candidates	34	
Cronbach alpha: (measurement of reliability)	0.71	
Standard error of measurement (SEM):	5.47	
Range of marks	99.81 – 145.58	55.45% - 81%
Pass mark derived from Standard Setting	115.85	64.3%
Pass mark + 5.47 SEM	121.33	67.4%
Pass rate	25 / 34	73.5%

Wednesday 20th November 2019

Mean score	138.84	77.1%
Median score	139.01	77.2%
Standard deviation	10.05	
Candidates	34	
Cronbach alpha: (measurement of reliability)	0.77	
Standard error of measurement (SEM):	4.82	
Range of marks	117.10 – 162.51	65% - 90.2%
Pass mark derived from Standard Setting	115.56	64.2%
Pass mark + 4.82 SEM	120.39	66.8%
Pass rate	32 / 34	94.11%

FRCEM Final QIP

Spring 2019

Summary

180 candidates submitted QIPs in Spring 2019 of whom 169 fulfilled the criteria required to pass the examination overall.

	Failed	Passed	Total
QIP	11	169 (94%)	180

Autumn 2019

Summary

126 candidates submitted QIPs in Autumn 2019 of whom 117 fulfilled the criteria required to pass the examination overall.

	Failed	Passed	Total
QIP	9	117 (93%)	126

Report Ends