



**EUROPEAN BOARD  
AND SECTION OF  
NEUROLOGY**

The logo consists of a blue circle with twelve yellow stars, similar to the European Union flag. Inside the circle is a white caduceus (a staff with two snakes) and the text 'U.E.N.S.'. Below the circle is a horizontal line with three grey circles underneath it.

Jan B.M. Kuks



Feedback to Candidates

# European Board Exam Neurology

## *Written "step 1"*

Closed Book General Questions n = 20

Closed Book Guideline Questions n = 20

Open Book Clinical Questions n = 60

80%

## *Oral "step 2"*

Critical Appraisal of a Topic

Essay on Ethics or Public Health

20%

# Disciplines

- Oncology
- Trauma
- CSF

# Categories

- Anatomy
- Biology
- Therapy

	1. Anatomy	2. Biology	3. Therapy	4. Physiology	5. Genetics	6. Chemistry	7. Pathology	8. Clinics	9. Imaging	10. Toxicology
1. Oncology	58				55	54		11, 40	41	
2. Trauma		none		33	none	36	none	12	11	
3. CSF				32	none	31	53	39	none	none
4. Infections	none	16	20		none	15		15, 45	18	
5. Immunology	none	23			none			26		32
6. Vascular	1, 22				4		17	2, 35	10, 16	
7. Epilepsy	39	14		40		37		12, 13		
8. Sleep			14				none	46, 8		
9. Headache							none	38		
10. Cognition	30		17	8		6	21	1, 28		
11. Degeneration Extrap	7	21	9, 31	30	9	29	27, 3, 20	25	10	24
11. Degeneration Cerebr	29		none	33	4	none		5		
12. Spinal cord & Brain	57		3		5	2				
13. Polyneuropathy	none			25	19			24	none	22
14. Mononeuropathy	52				44	none			none	none
15. Cranial nerves	34		7	28	42	none		6, 34, 37		
16. Myopathy	none				43	56	18	19, 23	none	
17. Myasthenia	none			51	none			13	none	47
18. Complications Int Me	none			none	none	26	38	36		none
19. Consciousness	35					60	59	27		
20. Autonomous NS			48		49		50		none	

- Comp. Internal Medicine
- Consciousness
- Autonomous Nerve System

# Feedback to the candidates



## Your numbers of right (+) and wrong (-) answers per discipline

Cognition	6+ 3-	66% correct answers
Spinal cord	4+ 0-	100% correct answers
Cerebellar	2+ 2-	50% correct answers
Extrapyramidal	11+ 2-	84% correct answers
Traumatology	3+ 1-	75% correct answers
Myasthenia	2+ 2-	50% correct answers
Sleep	2+ 1-	66% correct answers
Infections	7+ 0-	100% correct answers
Vascular	4+ 4-	50% correct answers
Myopathy	3+ 1-	75% correct answers
Polyneuropathy	3+ 0-	100% correct answers
Immunology	2+ 1-	66% correct answers
Internal Medicine	2+ 1-	66% correct answers
Cranial Nerves	5+ 2-	71% correct answers
CSF	2+ 1-	66% correct answers
Consciousness	2+ 2-	50% correct answers
Epilepsy	2+ 3-	40% correct answers
Oncology	3+ 3-	50% correct answers
Headache	1+ 0-	100% correct answers
Mononeuropathy	2+ 0-	100% correct answers
Autonomous	2+ 1-	66% correct answers





## Your numbers of right (+) and wrong (-) answers per category

Clinics	20+	8-	71% correct answers
Chemistry	8+	2-	80% correct answers
Therapy	9+	0-	100% correct answers
Genetics	9+	1-	90% correct answers
Anatomy	5+	7-	41% correct answers
Physiology	4+	5-	44% correct answers
Imaging	5+	1-	83% correct answers
Biology	2+	1-	66% correct answers
Pathology	5+	4-	55% correct answers
Toxicology	3+	1-	75% correct answers

1	2	3	4	5	6	7	8	9	10	11	12
	19		21		40		60		100		100
		z		z		z		z		z	
018	17	1.46	17	1.47	34	1.66	52	1.72	86	1.84	88
026	17	1.46	16	1.11	33	1.45	51	1.59	84	1.66	88
054					33	1.45			83	1.57	86
075	CB		CB		32	1.24	OB		80	1.31	83
005	Guidelines		General		33	1.45	total		82	1.49	86
073	17	1.46	16	1.11	35	1.87	48	1.19	84	1.66	86
036	14	0.30	12	-0.32			48	1.19			78
050	14	0.30	18	1.83	CB		45	0.78	Written		80
022	15	0.68	16	1.11	total		44	0.65	total		79
028	12	-0.47	16	1.11			46	0.92			77
030	14	0.30	16	1.11	30	0.82	46	0.92	76	0.95	78
051	14	0.30	16	1.11	30	0.82	48	1.19	78	1.13	82
029	16	1.07	15	0.76	31	1.03	41	0.25	72	0.60	76
027	13	-0.09	12	-0.32	25	-0.23	50	1.45	75	0.86	79
004	16	1.07	11	-0.68	27	0.19	45	0.78	72	0.60	76
053	13	-0.09	11	-0.68	24	-0.44	50	1.45	74	0.78	76
055	16	1.07	15	0.76	31	1.03	44	0.65	75	0.86	78
062	13	-0.09	17	1.47	30	0.82	46	0.92	76	0.95	79
010	14	0.30	15	0.76	29	0.61	43	0.51	72	0.60	76
012	16	1.07	17	1.47	33	1.45	46	0.92	79	1.22	82
016	16	1.07	15	0.76	31	1.03	42	0.38	73	0.69	73
032	17	1.46	13	0.04	30	0.82	39	-0.02	69	0.33	72
047	12	-0.47	16	1.11	28	0.40	43	0.51	71	0.51	75
006	16	1.07	13	0.04	29	0.61	41	0.25	70	0.42	74
033	11	-0.86	13	0.04	24	-0.44	45	0.78	69	0.33	73
048	11	-0.86	14	0.40	25	-0.23	45	0.78	70	0.42	74
044	15	0.68	12	-0.32	27	0.19	44	0.65	71	0.51	74
049	16	1.07	14	0.40	30	0.82	43	0.51	73	0.69	77
067	13	-0.09	13	0.04	26	-0.02	45	0.78	71	0.51	75
064	12	-0.47	15	0.76	27	0.19	39	-0.02	66	0.06	69
003	14	0.30	12	-0.32	26	-0.02	35	-0.56	61	-0.38	64

(maximal scores)  
(z-scores)



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# Critical Appraisal of a Topic



1. Ask a clear, concise and focused question.
2. Conduct an efficient and effective search for the highest quality research evidence available.
3. Critically appraise the located evidence.
4. Consider the applicability/generalizability of the evidence
5. Write the structured one page summary

	Item Score	Maximal Score	<u>Actual score*</u>
1	There is a clear, concise and focused question	1	
2	The question is original and relevant for clinical practice	2	
3	The search strategy is adequate	1	
4	The research outcome is adequate	1	
5	The table with results is correct	2	
6	The comments described are adequate	3	
7	The final conclusion is sound	1	
8	The references are really the current key-references for this problem	1	
9	The answers to the questions on the exam are adequate	2	
10	Handling ignorance during the exam is adequate	1	
	Total (please add up number 1-10)	15	
	<b>Additional Global Score</b>		
	Global impression on a 10 points scale 1=extreme poor - 10 = excellent	10	

\*There will be a conversion of the score to a mark between 0 and 10



# ORAL Professional / Health Advocate

- Write an Essay of about 800 Words on an ethical or public health topic within the field of neurology.
- Provide 1-3 references.
- Send this in before May 15th.
- Prepare an oral presentation of about 4 minutes (powerpoint allowed).
- You will be assessed on this by two examiners in an oral setting.



	Item Score	Maximal Score	<u>Actual score*</u>
1	The topic is relevant for clinical practice	1	
2	There is a sound introduction	2	
3	The elaboration of the problem is adequate	2	
4	The own vision of the candidate is clear	1	
5	The presentation is clear and to the point	2	
6	The answers to the questions are adequate	2	
7	<u>Handling ignorance is adequate</u>	1	
8	<u>Time management is adequate</u>	1	
	Total (please add up number 1-8)	12	
	<b>Additional Global Score</b>		
	Global impression on a 10 points scale 1=extreme poor - 10 = excellent	10	

\*There will be a conversion of the score to a mark between 0 and 10

# Feedback to the candidates



### Oral Examination CAT

	Ex 1	Ex 2	Maximum
C01. There is a clear concise and focused question -----	1.00	1.00	1.00
C02. The question is original and relevant for clinical practice-----	1.00	2.00	2.00
C03. The search strategy is adequate -----	1.00	1.00	1.00
C04. The table with results is correct -----	1.00	1.00	1.00
C05. The comments described are adequate -----	1.00	1.00	2.00
C06. The comments described are adequate -----	3.00	2.00	3.00
C07. The final conclusion is sound -----	1.00	1.00	1.00
C08. The references are really the current key-references -----	1.00	1.00	1.00
C09. The answers to the questions on the exam are adequate -----	2.00	2.00	2.00
C10. Handling ignorance during the exam is adequate -----	1.00	1.00	1.00
C99. Global impression CAT on a 10 points scale -----	8	8	10

### Oral Examination Essay

	Ex 1	Ex 2	Maximum
E01. The topic is relevant for clinical practice -----	1.00	1.00	1.00
E02. There is a sound introduction -----	2.00	2.00	2.00
E03. The elaboration of the problem is adequate -----	2.00	1.00	2.00
E04. The own vision of the candidate is clear -----	1.00	1.00	1.00
E05. The presentations is clear and to the point -----	2.00	2.00	2.00
E06. The answers tot the questions are adequate -----	2.00	2.00	2.00
E07. Handling ignorance is adequate -----	1.00	1.00	1.00
E08. Time management is adequate -----	1.00	1.00	1.00
E99. Global impression Essay on a 10 points scale -----	9	8	10



1	2	3	4	5	6	7	8	9	10	11	12
	19		21		40		60		100		100
		z		z		z		z		z	
018	17	1.46	17	1.47	34	1.66	52	1.72	86	1.84	88
026	17	1.46	16	1.11	33	1.45	51	1.59	84	1.66	88
054	17	1.46	16	1.11	33	1.45	50	1.45	83	1.57	86
075	16	1.07	16	1.11	32	1.24	48	1.19	80	1.31	83
005	17	1.46	16	1.11	33	1.45	49	1.32	82	1.49	86
073	17	1.46	18	1.83	35	1.87	49	1.32	84	1.66	86
036	14	0.30	12	-0.32	26	-0.02	48	1.19	74	0.78	78
050	14	0.30	18	1.83	32	1.24	45	0.78	77	1.04	80
022	15	0.68	16	1.11	31	1.03	44	0.65	75	0.86	79
028	12	-0.47	16	1.11	28	0.40	46	0.92	74	0.78	77
030	14	0.30	16	1.11	30	0.82	46	0.92	76	0.95	78
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029	16	1.07	15	0.76	31	1.03	41	0.25	72	0.60	76
027	13	-0.09	12	-0.32	25	-0.23	50	1.45	75	0.86	79
004	16	1.07	11	-0.68	27	0.19	45	0.78	72	0.60	76
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047	12	-0.47	16	1.11	28	0.40	43	0.51	71	0.51	75
<b>006</b>	<b>16</b>	<b>1.07</b>	<b>13</b>	<b>0.04</b>	<b>29</b>	<b>0.61</b>	<b>41</b>	<b>0.25</b>	<b>70</b>	<b>0.42</b>	<b>74</b>
033	11	-0.86	13	0.04	24	-0.44	45	0.78	69	0.33	73
048	11	-0.86	14	0.40	25	-0.23	45	0.78	70	0.42	74
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067	13	-0.09	13	0.04	26	-0.02	45	0.78	71	0.51	75
064	12	-0.47	15	0.76	27	0.19	39	-0.02	66	0.06	69
003	14	0.30	12	-0.32	26	-0.02	35	-0.56	61	-0.38	64

(maximal scores)  
(z-scores)



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1	2	3	4	5	6	7	8	9	10	11	12	13
	19		21		40		60		100		100	20
		z		z		z		z		z		
018	17	1.46	17	1.47	34	1.66	52	1.72	86	1.84	88	19
026	17	1.46	16	1.11	33	1.45	51	1.59	84	1.66	88	18
054	17	1.46	16	1.11	33	1.45	50	1.45	83	1.57	86	19
075	16	1.07	16	1.11	32	1.24	48	1.19	80	1.31	83	19
005	17	1.46	16	1.11	33	1.45	49	1.32	82	1.49	86	16
073	17	1.46	18	1.83	35	1.87	49	1.32	84	1.66	86	17
036	14	0.30	12	-0.32	26	-0.02	48	1.19	74	0.78	78	20
050	14	0.30	18	1.83	32	1.24	45	0.78	77	1.04	80	18
022	15	0.68	16	1.11	31	1.03	44	0.65	75	0.86	79	18
028	12	-0.47	16	1.11	28	0.40	46	0.92	74	0.78	77	19
030	14	0.30	16	1.11	30	0.82	46	0.92	76	0.95	78	19
051	14	0.30	16	1.11	30	0.82	48	1.19	78	1.13	82	14
029	16	1.07	15	0.76	31	1.03	41	0.25	72	0.60	76	19
027	13	-0.09	12	-0.32	25	-0.23	50	1.45	75	0.86	79	17
004	16	1.07	11	-0.68	27	0.19	45	0.78	72	0.60	76	18
053	13	-0.09	11	-0.68	24	-0.44	50	1.45	74	0.78	76	18
055	16	1.07	15	0.76	31	1.03	44	0.65	75	0.86	78	16
062	13	-0.09	17	1.47	30	0.82	46	0.92	76	0.95	79	15
010	14	0.30	15	0.76	29	0.61	43	0.51	72	0.60	76	17
012	16	1.07	17	1.47	33	1.45	46	0.92	79	1.22	82	12
016	16	1.07	15	0.76	31	1.03	42	0.38	73	0.69	73	19
032	17	1.46	13	0.04	30	0.82	39	-0.02	69	0.33	72	20
047	12	-0.47	16	1.11	28	0.40	43	0.51	71	0.51	75	18
<b>006</b>	<b>16</b>	<b>1.07</b>	<b>13</b>	<b>0.04</b>	<b>29</b>	<b>0.61</b>	<b>41</b>	<b>0.25</b>	<b>70</b>	<b>0.42</b>	<b>74</b>	<b>18</b>
033	11	-0.86	13	0.04	24	-0.44	45	0.78	69	0.33	73	18
048	11	-0.86	14	0.40	25	-0.23	45	0.78	70	0.42	74	17
044	15	0.68	12	-0.32	27	0.19	44	0.65	71	0.51	74	17
049	16	1.07	14	0.40	30	0.82	43	0.51	73	0.69	77	14
067	13	-0.09	13	0.04	26	-0.02	45	0.78	71	0.51	75	13
064	12	-0.47	15	0.76	27	0.19	39	-0.02	66	0.06	69	17
003	14	0.30	12	-0.32	26	-0.02	35	-0.56	61	-0.38	64	20

(maximal scores)  
(z-scores)



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1	2	3	4	5	6	7	8	9	10	11	12	13	14	(maximal scores) (z-scores)
	19		21		40		60		100		100	20	100	
		z		z		z		z		z				
018	17	1.46	17	1.47	34	1.66	52	1.72	86	1.84	88	19	89	
026	17	1.46	16	1.11	33	1.45	51	1.59	84	1.66	88	18	88	
054	17	1.46	16	1.11	33	1.45	50	1.45	83	1.57	86	19	87	
075	16	1.07	16	1.11	32	1.24	48	1.19	80	1.31	83	19	85	
005	17	1.46	16	1.11	33	1.45	49	1.32	82	1.49	86	16	85	
073	17	1.46	18	1.83	35	1.87	49	1.32	84	1.66	86	17	85	
036	14	0.30	12	-0.32	26	-0.02	48	1.19	74	0.78	78	20	82	
050	14	0.30	18	1.83	32	1.24	45	0.78	77	1.04	80	18	82	
022	15	0.68	16	1.11	31	1.03	44	0.65	75	0.86	79	18	80	
028	12	-0.47	16	1.11	28	0.40	46	0.92	74	0.78	77	19	80	
030	14	0.30	16	1.11	30	0.82	46	0.92	76	0.95	78	19	80	
051	14	0.30	16	1.11	30	0.82	48	1.19	78	1.13	82	14	80	
029	16	1.07	15	0.76	31	1.03	41	0.25	72	0.60	76	19	79	
027	13	-0.09	12	-0.32	25	-0.23	50	1.45	75	0.86	79	17	79	
004	16	1.07	11	-0.68	27	0.19	45	0.78	72	0.60	76	18	78	
053	13	-0.09	11	-0.68	24	-0.44	50	1.45	74	0.78	76	18	78	
055	16	1.07	15	0.76	31	1.03	44	0.65	75	0.86	78	16	78	
062	13	-0.09	17	1.47	30	0.82	46	0.92	76	0.95	79	15	78	
010	14	0.30	15	0.76	29	0.61	43	0.51	72	0.60	76	17	77	
012	16	1.07	17	1.47	33	1.45	46	0.92	79	1.22	82	12	77	
016	16	1.07	15	0.76	31	1.03	42	0.38	73	0.69	73	19	77	
032	17	1.46	13	0.04	30	0.82	39	-0.02	69	0.33	72	20	77	
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<b>006</b>	<b>16</b>	<b>1.07</b>	<b>13</b>	<b>0.04</b>	<b>29</b>	<b>0.61</b>	<b>41</b>	<b>0.25</b>	<b>70</b>	<b>0.42</b>	<b>74</b>	<b>18</b>	<b>76</b>	<<<
033	11	-0.86	13	0.04	24	-0.44	45	0.78	69	0.33	73	18	76	
048	11	-0.86	14	0.40	25	-0.23	45	0.78	70	0.42	74	17	76	
044	15	0.68	12	-0.32	27	0.19	44	0.65	71	0.51	74	17	75	
049	16	1.07	14	0.40	30	0.82	43	0.51	73	0.69	77	14	75	
067	13	-0.09	13	0.04	26	-0.02	45	0.78	71	0.51	75	13	73	
064	12	-0.47	15	0.76	27	0.19	39	-0.02	66	0.06	69	17	72	
003	14	0.30	12	-0.32	26	-0.02	35	-0.56	61	-0.38	64	20	71	





<https://www.uems-neuroboard.org>

## Report on the 10<sup>th</sup> European Examination for Young Neurologists.

Lisbon June 15<sup>th</sup> 2018

### *Preamble*

The European Examination for Young Neurologists is an initiative of the UEMS-Section of Neurology (also European Board of Neurology, EBN) in cooperation with the European Academy of Neurology (EAN). The first Exam was taken in 2009 under the supervision of professor Wolfgang Grisold. The aim of this EBN-Examination is to add a contribution to setting European standards for the training of medical specialists in the field of neurology.

Until now, there is still no legal status for European Board Examinations but in many countries these examinations are mandatory for completion of a specialist training. Especially anesthesiology and ophthalmology take an advanced position in this field.

The UEMS (Union Européenne des Médecins Spécialistes) supports the conferment of the title 'Fellow of the European Board' to those candidates who successfully passed the examination. This is why our successful candidates become fellows of the European Board of Neurology (FEBN). Although the European Board of Neurology is tightly cooperating with the EAN, passing the board exam does *not* allow candidates to bear the title FEAN.

In 2016, the EBN-Exam was accredited by the UEMS-Examination Board (CESMA).



**Comments?  
How do you handle  
this?**





4. Did you find the written questions clearly formulated?

0	0	4	20	10
1	2	3	4	5

5. Have you been able to answer the MC-questions properly within the timeframe given?

1	1	3	15	15
1	2	3	4	5

6. Are you satisfied with the instructions and help during the exam?

0	1	3	9	22
1	2	3	4	5

7. What is your opinion on having an open book exam?  
Do you appreciate this as a realistic part of a board exam?

0	1	5	10	21
1	2	3	4	5

8. What is your opinion on the CAT and essay assignments?  
Do you appreciate these as a realistic part of a board exam?

<i>0</i>	<i>0</i>	<i>10</i>	<i>16</i>	<i>22</i>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

9. Have you been satisfied with the oral examination?  
Do you appreciate this as a realistic part of a board exam?

<i>0</i>	<i>1</i>	<i>1</i>	<i>9</i>	<i>21</i>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

1. Did you feel, the examiners have read your CAT carefully?

			<i>1</i>	<i>7</i>	<i>23</i>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	

2. Did you feel, the examiners have read your Essay carefully?

			<i>1</i>	<i>8</i>	<i>22</i>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	

3. Did you find their questions formulated clearly?

	<i>1</i>	<i>1</i>	<i>9</i>	<i>20</i>	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	

4. Did you get the opportunity to present your work adequately?

			<i>1</i>	<i>1</i>	<i>29</i>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	



5. Did the discussion of your CAT make sense?

		1	5	25
1	2	3	4	5

6. Did the discussion of your Essay make sense?

		2	5	24
1	2	3	4	5

7. Do you feel the timeframe of the session is adequate?

			7	24
1	2	3	4	5

8. Could you give a note to the first examiner? (0 = bad, 5 = excellent)

		1	8	20
1	2	3	4	5

9. Could you give a note to the second examiner? (0 = bad, 5 = excellent)

		2	5	22
1	2	3	4	5