











Instruction for examiners JBM Kuks, coordinator





Examination Committee





Jan Kuks Netherlands



David Garcia-Azorin Spain



Pablo Irimia Sieira Spain



Manuel
Alegre Esteban
Spain



Massimiliano Filosto Italy



Francesco Di Lorenzo Italy



Deborah McIntyre Luxembourg



Tim Counihan Ireland





Gabrielle Lohner Austria



Jasenko Selimovič Austria



Nuno Santos Portugal





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EAN-person RRFS?



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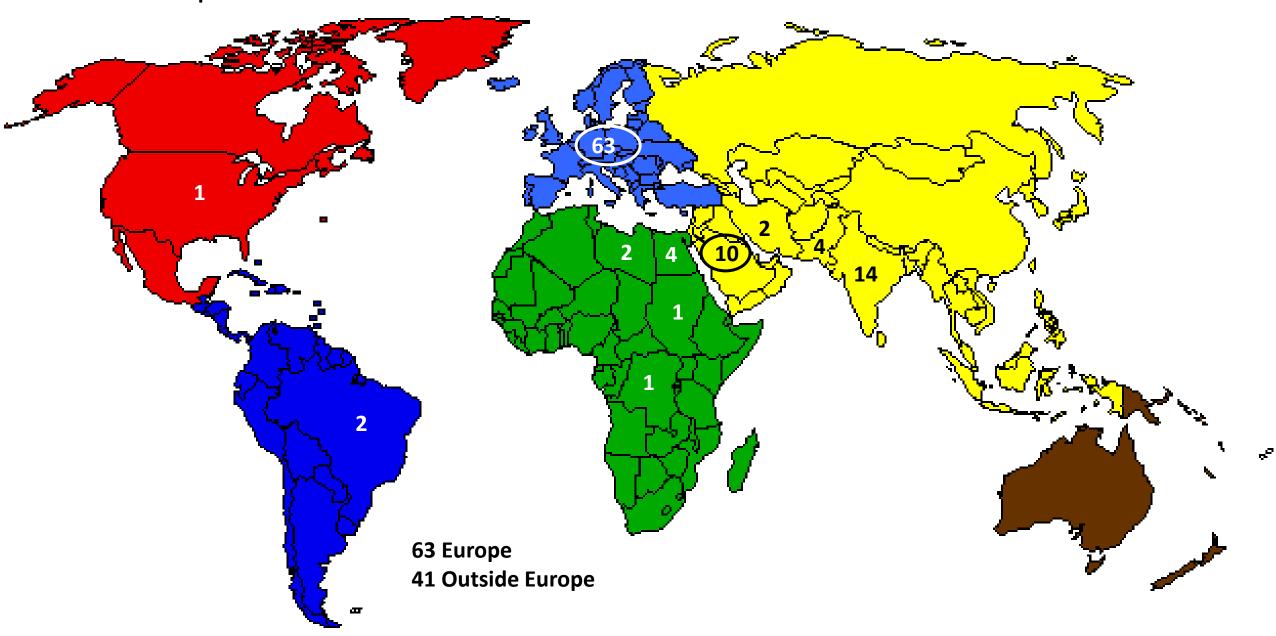
Jasenko Selimovič Austria



Nuno Santos Portugal



Participants 2023



· Reykjavik IJSLAND **ZWEDEN FINLAND** FAERÖER NOORWEGEN Stockholm **ESTLAND** Nizjni Novgorod RUSLAND LETLAND DENEMARKEN LITOUWEN VERENIGD KONINKRLIK IERLAND WIT-RUSLAND NEDERLAND Warschau • Charkov POLEN BELGIË DUITSLAND • Frankfurt am Main **OEKRAÏNE** • Dnipro Rostov Veliki SLOWAKIJE MOLDAVIË Zurich LIECHTENSTEIN Bern Vaduz FRANKRIJK - Geneva ZWITSERLAND ROEMENIË Boekarest BOSNIË EN HERZEGOVINA Sarajevo SERVIË NTENEGRO Pristina Podgorica KOSOVO Skopje BULGARIJE MONTENEGRO PORTUGAL Madrid ITALIË **SPANJE** TURKIJE ALBANIË GRIEKENLAND MALTA Valletta CYPRUS

Participants 2023



Oral Examination



Our first complete Exam with iCognitus



- In order to make the process independent from my participation.
- Many problems related with the phase of development.
- Several misunderstandings before the Exam, last minute changes.
- High requirements of the system, problems with signing in.
- Written back-up of the examination results to prevent problems.

> Analysis of errors in progress. Will be discussed later on.

Oral Examination



E01,lperjud@umfcluj.ro

E02, vincenzo@silani.com

E03,alexbis@pt.lu

E04,gilles.edan@chu-rennes.fr

E05,debmcintyre@gmail.com

E06,massimiliano.filosto@unibs.it

E07,m.devisser@amc.uva.nl

E08,patrick.cras@uantwerpen.be

E09,pirimia@unav.es

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E16,jkruja@gmail.com

E17,sten.fredrikson@ki.se

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E20,magnus.la.andersson@sll.se

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E22,antonella.conte@uniroma1.it

E23,davilink@hotmail.com

E24,tobias.freilinger@uni-tuebingen.de

E25,grisoldw@gmail.com

E26, walter. struhal@tulln.lknoe.at

E27,angelo.antonini@unipd.it

- Difficulty with getting examiners
- Cancellations after commitment
- Limited response (1) after 2nd request within EBN

Oral Examination



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E08,patrick.cras@uantwerpen.be

E09,pirimia@unav.es

E10,jochen.schaefer@tu-dresden.de

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E12,f.dilorenzo@hsantalucia.it

E13,helmar.lehmann@uk-koeln.de

E14, daniele. belvisi@uniroma1.it

E15, olivier. vandhuick@orange.fr

E16,jkruja@gmail.com

E17,sten.fredrikson@ki.se

E18,josanne.aquilina@gov.mt

E19, christine.tranchant@chru-strasbourg.fr

E20,magnus.la.andersson@sll.se

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E22, antonella.conte@uniroma1.it

E23,davilink@hotmail.com

E24,tobias.freilinger@uni-tuebingen.de

E25,grisoldw@gmail.com

E26, walter. struhal@tulln.lknoe.at

E27,angelo.antonini@unipd.it

11 / 27 are EBN-members

Written Examination



- 98 online candidates.
- David and Jan were around.
- No big problems.
- See evaluation of examinees (in the autumn meeting)

> Analysis of errors in progress. Will be discussed later on.

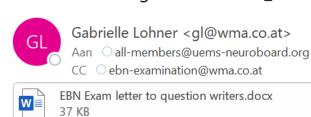
Question Database (n=428)

- 55 1. Vascular
- 37 2. Cognition, including dementia, cortical functions
- 23 3. Epilepsy
- 26 4. Headache
- 20 5. Immunology, including MS
- 18 6. Infections
- 60 7. Movement disorders
 - 8 8. Intensive care neurology
 - 9 9. Trauma
- 11 10. Complications of internal diseases
- 51 11. Neuromuscular Disorders
- 17 12. Oncology
- 32 13. Cranial nerves, including neuro-otologie and neuro-ophthalmology
- 8 14. Neuropsychiatry
- 2 15. Neurorehabilitation
- 4 16. Pain
- **11** 17. CSF
- **21** 18. Sleep
- 27 19. Spinal cord and brainstem, including neuronopathy
- 22 20. Autonomic Nervous System, including neuro-urology

Acquisition

- EAN-committees (many)
- EBN (Cras, Fredrikson, de Visser)
- Teaching Courses (several)
- E-Learning (?)
- Individual authors (Vodusek)
- EC-members (Kuks)

Question writing for the UEMS_EBN exam





Dear Members of the UEMS_EBN!

On behalf of Prof. Jan Kuks, Chair of the EBN Examination Committee, I would like to invite you to support the EBN with the preparation of examination questions and to consider the following annexes:

- EBN Exam letter to question writers
- Tips and Tricks writing questions for European Neurology

PDF

186 KB

EBN Exam question Stencil

Kind regards, and thank you very much in advance!

Gabrielle Lohner

Maa, Gabrielle Lohner Section of Neurology – European Board of Neurology c/o Vienna Medical Academy

O I do not feel able to do so

O I do not have time by now

O I will send you some a.s.a.p.

O There you go, enjoy

22 nieuwe meldii

Categories

1.	Vascular	10
2.	Cognition, including dementia, cortical functions	9
3.	Epilepsy	6
4.	Headache	9
5.	Immunology, including MS	9
6.	Infections	7
7.	Movement disorders	11
8.	Intensive care neurology	9
9.	Trauma	7
10.	Complications of internal diseases	6
11.	Neuromuscular Disorders	10
12.	Oncology	5
13.	Cranial nerves, including neuro-otologie and neuro-ophthalmology	6
14.	Neuropsychiatry	5
15.	Neurorehabilitation	1
16.	Pain	4
17.	CSF	3
18.	Sleep	6
19.	Spinal cord and brainstem, including neuronopathy	8
20.	Autonomic Nervous System, including neuro-urology	4



Statistics individual questions

P-value

Higher -> Easier [60-75%]

RIT-value

Differentiation [>.2]

Closed book

Topics are known.
Only new questions (40)

Open book I

Only 'old' questions (30)

Open book II

Only 'new' questions (30)



Total exam (100)

Statistics test as a whole

Mean p-value Higher -> Easier [60-75%]

Kuder Richardson Higher-> More reliable [>.7]

SNR

[>5?]

Closed book

Topics are known.
Only new questions (40)



Open book I

Only 'old' questions (30)

Open book II

Only 'new' questions (30)



Total exam (100)

Statistics	Mean p-value Higher -> Easier [60-75%]	Kuder Richardson Higher-> More reliable [>.7]	SNR [>5?]
Closed book Topics are known. Only new questions (40)	.68	.83	5
Open book I Only 'old' questions (30)	.66	.75	3
Open book II Only 'new' questions (30	.70	.67	2
Total exam (100)	.67	.90	9

Total Results



	'23	'22	'21	'19	'18	'17	'16	'15	'14
90 - 100 80 - 90 70 - 80 60 - 70 55 - 60	22% 31%	18% 34% 27%	26% 30% 19%	2% 18% 26% 29% 13%	19% 32% 22%	18% 37% 21%	42% 20%	33% 17%	21% 39%
Failure	9%	14%	12%	12%	14%	4%	7%	13%	7%

Survey for Examinees (n=98)

1. I find the examination fee is affordable.

 12
 20
 19
 16
 11

 1
 2
 3
 4
 5



2. I prefer an online exam to a live exam.

4	4	10	16	44
1	2	3	4	5



Survey for Examinees (n=98)

If there would have been a live exam in Budapest at the site of the congress I would have taken this instead of this online exam.

 26
 16
 15
 12
 9

 1
 2
 3
 4
 5



4. If there had only been a live exam in Budapest at the site of the congress I would still have

taken the 2023 EBN exam.

 17
 8
 17
 19
 17

 1
 2
 3
 4
 5



6. I will attend the EAN congress in Budapest.

25 52 1 Yes 2 No

Survey for Examiners (n=27)

20. What's your opinion taking these (dis)advantages into account?



- a. 4 The oral exams should be taken in person at the site of the congress anyway.
- b. 2 The oral exams preferentially should be taken in person at the site of the congress but may be taken online as well.
- c. 3 The oral exams mainly can be organized online but may be taken live at the site of the congress as well.
- The oral exams can be organized online anyway taking the (dis)advantages into account.

Survey for Examiners (n=27)

- 17. Would you like to be involved in further Oral EBN Exams?
 - 1. Yes, only online. 3
 - Yes, only live at the site of the congress ----
 - Yes, both live and online is fine with me 11
 - No, not for the time being.

Comments

Online was more feasible than I had anticipated
I would like to be involved in future Oral EBN exams.
Online should be always possible.
Onsite would depend if I am attending the EAN congress



Survey for Examiners (n=27)

18. Would you be willing to attend a subsidized one-day training for examiners, e.g. in London?

. .





Survey for Examinees

5. It is important for me to have feedback about my achievement in this EBN exam.

0 0 5 9 63



Report feedback EBN-Exam 2023, your number = 103

20/6/2023

GENERAL

PERSONAL DATA

ORAL EXAM

80-100 = Excelle

55-59 = Margin; These are your scores given for the several items from the scoring list as provided by your examinators 1 and 2, the maximum score obtainable is given in the utmost right column.

	Writ	Oral		Oral Examination CAT
1	2	1 3	C02.	There is a clear concise and focused question The question is original and relevant for clinical practic
			C04. C05. C06.	The search strategy is adequate The table with results is correct The comments described are adequate The comments described are adequate The final conclusion is sound
094 095	63 79	91 81	C08. C09.	The references are really the current key-references The answers to the questions on the exam are adequate
096 097	64 49	83 81		Handling ignorance during the exam is adequate Global impression CAT on a 10 points scale
098	51	84		Examiner 1: E22
099 100	53 78	88 93		Examiner 2: E02
102 103	64 75	88 92		Clinical presentation The misdiagnosis between SPG7 and MSA-C is discussed wi
104	42	92	LUZ	Well described the clinical case.
106	71	92	>>	Critical appraisal of a topic
For	furthe	er gene	E02	The CAT discusses the use of the PPN-DBS in PPS and it presented.
			>>	Essay
			E02	The essay is timely and adequately discussed.

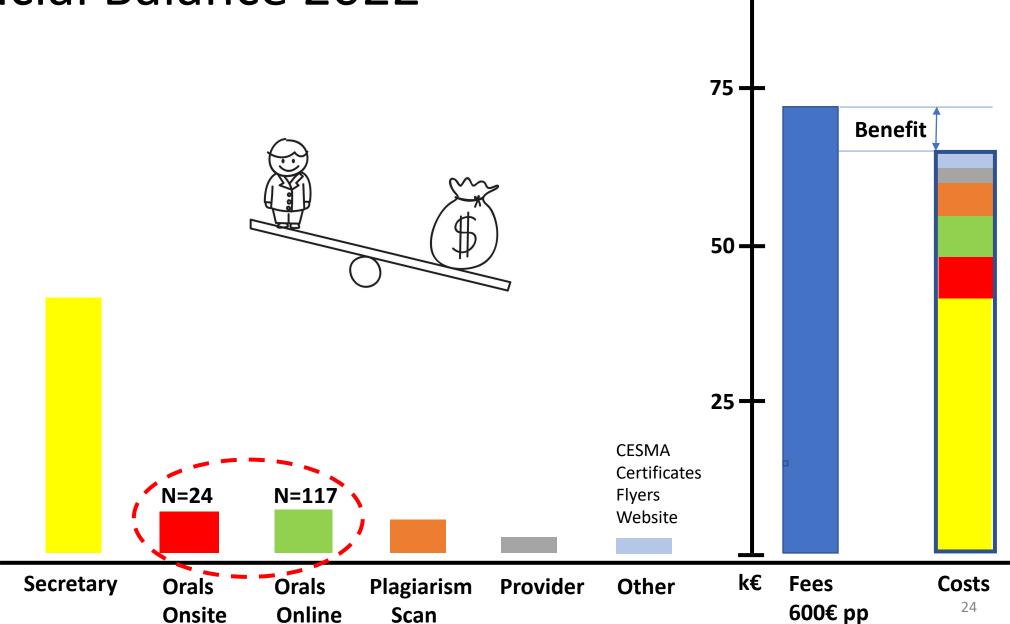
WRITTEN EXAM

Ex 1 Ex 2 Maximum

Your number of correct answers per neuro-category - Some questions were related to several categories, therefore - the total number exceeds the total number of questions.

Vasculair	4 outof 10 correct answers	40%
Cortex - Cognition - Dementia	5 outof 9 correct answers	55%
Epilepsy	3 outof 6 correct answers	50%
Headache	5 outof 9 correct answers	55%
Immunology including MS	3 outof 9 correct answers	33%
Infections	1 outof 7 correct answers	14%
Movement disorders	7 outof 11 correct answers	63%
Intensive care neurology	3 outof 9 correct answers	33%
Trauma	3 outof 7 correct answers	42%
Complications of internal disease	5 outof 6 correct answers	83%
Neuromuscular disorders	6 outof 10 correct answers	60%
Oncology	0 outof 5 correct answers	0%
Cranial nerves	3 outof 6 correct answers	50%
Neuropsychiatry	4 outof 5 correct answers	80%
Neurorehabilitation	0 outof 1 correct answers	0%
Pain	3 outof 4 correct answers	75%
CSF	1 outof 3 correct answers	33%
Sleep	3 outof 7 correct answers	42%
Spinal cord - Brainstem (ALS)	3 outof 8 correct answers	37%
Autonomic nervous system	1 outof 4 correct answers	25%

Financial Balance 2022





Budget



PAYMENT

Please transfer ASAP the fee free of charge for the beneficiary.

Admission Fees (in EUR) Earlybird fee Regular fee until January 15, 2023 before March 01, 2023

Exam Fee € 600 **700**

71 * 600 = 42.600 Earlybird

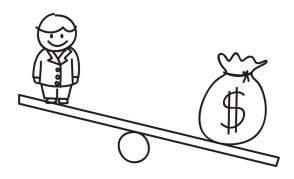
28 * 700 = 19.600 Regular

5* 300 = 1.500 Resits

104 63.700

Budget

Year	2015	2016	2017	2018	2019	2020	2021	2022	2023
Total Costs EBN	28.728,00	30.241,00	38.141,00	41.963,00	47.553,00	20.429,00	44.057,00	54.212,09	54.324,00
Total Costs EAN	8.000,00	13.065,04	15.000,00	5.665,00	5.840,00	5.222,50	12.022,61	13.432,61	350,40
Total Costs EBN + EAN	36.728,00	43.306,04	53.141,00	47.628,00	53.393,00	25.651,50	56.079,61	67.644,70	54.674,40
Incoming Exam Fees	26.759,00	32.000,00	43.837,00	44.145,00	59.513,00	45.835,00	70.773,00	73.906,00	63.700,00
Financial result	-9.969,00	-11.306,04	-9.304,00	-3.483,00	6.120,00	20.183,50	14.693,39	6.261,30	9.025,60



Year	2021	2022	2023
# Candidates	200	158	104
Question database handling			
Provider Portugal (iCognitus)	2.600,00	2.200,00	3.599,00
Plagiarism			
Plagiarism Scan EAN	5.863,01	5.863,01	0,00
Examination Day			
Accom. Examiners&employees	0,00	1.023,20	0,00
Fees onsite/online assistants	4.135,00	3.015,00	3.000,00
Catering Exam candidates	0,00	422,20	0,00
Catering Examiners and staff	0,00	422,20	0,00
Project Manager preparation	3.000,00	2.000,00	0,00
Project Manager online support	1.600,00	1.600,00	0,00
Zoom rooms (EAN)	1.119,20	1.119,20	0,00

Effect iCognitus



Year	2021	2022	2023
# Candidates	200	158	104
Question database handling			
Provider Portugal (iCognitus)	2.600,00	2.200,00	3.599,00
Plagiarism			
Plagiarism Scan EAN	5.863,01	5.863,01	0,00
Examination Day			
Accom. Examiners&employees	0,00	1.023,20	0,00
Fees onsite/online assistants	4.135,00	3.015,00	3.000,00
Catering Exam candidates	0,00	422,20	0,00
Catering Examiners and staff	0,00	422,20	0,00
Project Manager preparation	3.000,00	2.000,00	0,00
Project Manager online support	1.600,00	1.600,00	0,00
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On site Exams



+ exam-rooms

+ accommodation

Plans for the near future

FOLLOW

- Analysis of errors in 2023
- Setting the real balance
- Writing the report
- Rewriting the standard operating procedure (SOP)
- Orals at the congress? If so, who will take the organization?
- Study-material for the closed book exam
- Scanning the E-learning modules for question writing
- Extending the tasks of iCognitus

Calculation of the marks

Two exam	As an example:										
■ Struct sumn	Written score 71 (r	Written score 71 (max 100)									
■ A glol	Orals	CATstructured	CAT structured. CAT global. Essay structured. Essay global Clin Presstructured. Clin Presslobal								
	Max. obtainable	15		12		20					
■ These	Examiner 1	12	8	8	7	18	7				
111050	Examiner 2	10	7	7	7	16	8				
_											
	Examiner 1	2/3*10*(12	2/ <mark>15)</mark> + 1/3	*8 + 2/3*10)*(<mark>8/12</mark>) +	1/3*7 + 2/3	3*10*(<mark>18/2</mark> 0)) + 1/3*7 =			
		5,3	+ 2,6	56 + 4,4	4 +	2,33 +	6	+ 2,66 = 23,39	9 (max 30)		
	Examiner 2	2/3*10*(10)/ <mark>15</mark>) + 1/3	*7 + 2/3*10	*(<mark>7/12</mark>) +	1/3*7 + 2/3	*10*(16/ <mark>20</mark>) + 1/3*8 =			
		4,44	+ 2,3	3,88	+	2,33 + 5	5,33	+ 2,66 = 21,08	3 (max 30)		
_	Examiner 1 + 2 = 44	1,47 (max 60) -	-> [transfo	rmation * 5/	3] -> 74,1	1 (max 100)					
Filling in t scoring 3	0 - 1 74.44 / 400\										
Normalizi	Total score = .7 * 7	1 + .3 * 74,11	= 71,9 (ma	x 100)							

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Oncology	0 outof 5 correct answers	0%
Cranial nerves	3 outof 6 correct answers	50%
Neuropsychiatry	4 outof 5 correct answers	80%
Neurorehabilitation	0 outof 1 correct answers	0%
Pain	3 outof 4 correct answers	75%
CSF	1 outof 3 correct answers	33%
Sleep	3 outof 7 correct answers	42%
Spinal cord - Brainstem (ALS)	3 outof 8 correct answers	37%
Autonomic nervous system	1 outof 4 correct answers	25%

Scientific Theatre July 2nd 2.30



Examination is like peeing in your pants. Everyone can see it, but only you can feel the warmth.





- Being an examiner
- Reviewing questions
- Writing questions from scratch
- Deriving questions from e-learning