

**LMU**

LUDWIG-  
MAXIMILIANS-  
UNIVERSITÄT  
MÜNCHEN

MEDICAL FACULTY



# PRACTICAL YEAR LOGBOOK FOR STUDENTS IN THE TERM

## NEUROLOGY

**Neurologische Klinik und Poliklinik der  
Ludwig-Maximilians-Universität München**

Standort Großhadern

**Friedrich-Baur-Institut an der Neurologischen  
Klinik und Poliklinik**

Standort Innenstadt

# Practical Year Logbook for the term in Neurology

Name \_\_\_\_\_

Matriculation number \_\_\_\_\_

Address \_\_\_\_\_

Date of birth \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

Actual term: from \_\_\_\_\_ until \_\_\_\_\_

Term number:                      1                       2                       3

Name of the hospital: \_\_\_\_\_

Terms already completed:  
\_\_\_\_\_

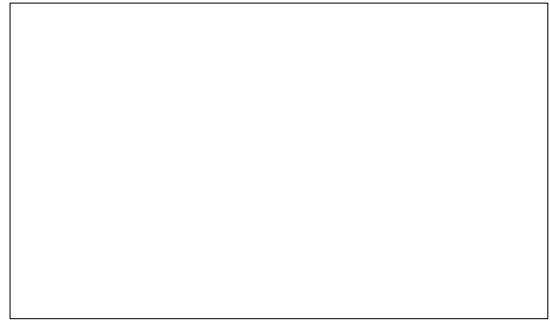
I am spending half of my term abroad:                      yes                       no

I am spending the entire term abroad:                      yes                       no

Country:  
\_\_\_\_\_

Only necessary for **PJ-Mobility**:

Official seal of LMU, for the recognition of the term completed by the home university



**Dear students,**

We are happy to present you this logbook for Neurology. It describes all the practical experiences you should complete and all the skills you should acquire during this term. This is to ensure that you are ideally prepared for the third part of your Medical Licensing examination at the end of your Practical Year and to help you identify and close any gaps in your theoretical and practical knowledge base. We are also trying to prepare you for the responsibilities you will be carrying in your later professional life early on.

You should use this logbook to document your personal learning progress and get feedback from your responsible supervisor on a regular basis. It is important that you take the initiative and request assistance in learning from the on-call doctors if you have found gaps in your knowledge.

A mentor will be there for all the questions and problems you might encounter during this term. He or she will also be responsible for supervising your learning progress.

Please make sure to complete this logbook as requested and to have doctors sign for the skills you have acquired, as this logbook will be collected, checked and evaluated by us.

We are always grateful for constructive feedback to help us improving these logbooks and our teaching goals and would therefore be grateful if you could complete the evaluation at the end. Thank you in advance for helping us to improve the organization of the practical year for future generations of students.

We wish you an enjoyable and productive term in Neurology!



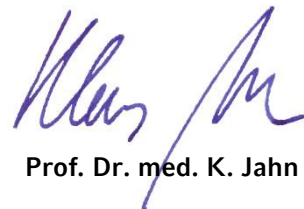
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Director of the Neurological clinic  
of LMU



**Prof. Dr. med. S. Noachtar**

Attending physician,  
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**Prof. Dr. med. Martin Fischer**

Dean of Clinical Medicine at LMU



**PD Dr. med. Matthias Angstwurm**

Course Instructor of the Practical Year at LMU

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## PART 1: GENERAL INFORMATION

### CONTACTS / INFORMATION

Important information concerning the organization and procedures during your practical year can be found on the website of the Dean of the Medical Faculty:

[www.mecum.med.uni-muenchen.de](http://www.mecum.med.uni-muenchen.de)

We have consciously decided against listing all the rules and regulations, as this information is always available in its most recent form online and we wanted to place the emphasis on the more substantial details.

If you have any questions regarding the organization of your practical year, please contact the dean's office, they will gladly help you. If you have any questions concerning the contents, please contact either your term supervisor, the Practical Year Coordinator or PD Dr. Angstwurm:

Central PJ-Coordination  
Practical Year Coordinator at LMU  
PJ\_Koordination@med.uni-muenchen.de  
Tel: 004989/4400-52415

PD Dr. med. Matthias Angstwurm  
Course Instructor of the Practical Year at LMU  
Matthias.Angstwurm@med.uni-muenchen.de  
Tel: 004989/4400-52207

### VACCINES

For the protection of your patients, you should have sufficient immunity against mumps, measles, rubella, diphtheria, chicken pox and pertussis. For your own protection, you should be vaccinated against Hepatitis B and if possible against Hepatitis A.

Please make sure you fulfill the requirements of the foreign medical faculty concerning health certificates.

### STAYS ABROAD

You are required to complete this logbook even if you are out of Germany. Please note exactly where you are completing your term on the corresponding pages in this logbook. If you are completing your entire term or the last part of your term outside of Germany, then you will need hand in this logbook to the central PJ-coordination, located at Pettenkoferstraße 8a (Room D0.48) personally after completing and receiving all the required paperwork. If you are turning your logbook in at one of the clinics or teaching hospitals affiliated with the LMU, this logbook will be sent to the Practical Year Coordinator by the clinic.

If you are completing this term in multiple locations you are permitted to use this logbook in both locations, as long as you have the permission of the corresponding clinics.

### LOGBOOK AS A FOUNDATION FOR LETTERS OF REFERENCE

If you are planning to ask for letters of reference at the end of your term, please inform the department secretary before handing in your logbook. This will allow the department to make a copy of your logbook to serve as a basis for the letter of recommendation. If you have completed additional optional learning experiences such as night or weekend call duty, please note this section 3 of your logbook under "Optional learning experiences" with the date and signature of your supervisor so that these experiences can be included in your letter of reference.

## EDUCATIONAL ACTIVITIES

Depending on where you are completing your term you may find various possibilities to further your medical education. At least once a week there should be a specific lecture or seminar for students. Please make sure you inform yourself in advance via the internet or in the hospital about the available programs.

It may also be possible for you to make your own contribution to these educational activities and benefit from "learning by teaching". For example, you might be able to present your own patient or research your own topic. Student presentations will be followed by a discussion led by the responsible lecturer. A list of suggested topics may be found in part 2 of this logbook.

## „TESTING“ IN YOUR PRACTICAL YEAR

Every clinic should, if possible, offer voluntary oral assessments for students, in order to prepare you for the oral-practical examination at the end of your practical year. There is no danger of failing such a voluntary oral assessment. Please make sure to inform yourself of the possibilities available at your clinic. Ideally you should have the possibility of taking a trial examination. In this trial examination a lecturer will assign you a patient and ask you to perform a history and physical examination. You will then be asked to write a short summary of the case. At the end of the allotted time the examiner will provide feedback on your case report and ask you a series of questions about the case to simulate an oral examination.

We recommend you to use the last appointment with your mentor for such a trial examination, make sure to ask him or her about this in advance. Additionally, the central PJ-coordination offers the possibility to take the mP<sup>3</sup>-exam. Further information can be found on the Mecum homepage.

## INSTRUCTION MANUAL FOR THIS LOGBOOK

Ideally you would carry your logbook with you and continuously document your progress (print-out in DIN A5!). Please evaluate your skills at the beginning of the term and fill in the corresponding column. After you have completed approximately half of your term and at the end of your term you will need your mentor or an attending physician to document your progress and then sign and stamp appropriately.

The levels of competence on the right side of the table may be surpassed depending on the possibilities and the willingness to teach of the responsible doctors. Theoretically your total score may therefore be above 100%.

It is your responsibility to complete this logbook as requested. If you fail to achieve the required minimum number of points for competence, the term will have to be repeated.

**At all university and teaching hospitals, the completion of this logbook is a requirement for obtaining the certificate for this term. The logbooks will be collected by the supervisors and be passed on to the central PJ-coordination of the LMU. Please make sure to tear out, complete and hand in the evaluation at the end of this logbook. It can be handed in together with the logbook to Practical Year Coordination of the LMU, Poliklinik (Pettenkoferstr. 8a) in room D0.48. There is a mailbox into which you can simply drop off the evaluation. Thank you for your help with this!**

### **PJ-Mobility:**

If you are completing your term at the LMU in the context of PJ-mobility, you are obligated to use this LMU logbook. The term will be only acknowledged by your home university, in presence of the official seal of the LMU (pg. 3) along with the certificate for the term.

The seal can be obtained at the dean's office, located at the following address:

**Bavariaring 19  
80336 München**

The opening hours can be found at [www.mecum.med.uni-muenchen.de/sprechzeiten/studiendekanat](http://www.mecum.med.uni-muenchen.de/sprechzeiten/studiendekanat).

## **PROFESSIONAL LIABILITY INSURANCE**

Liability on the part of the students resulting in harm or damage to a third party, in context of the practical year, is covered by the professional liability insurance of the university/teaching hospital. Both, the students of the LMU and external mobility students are insured. However, this does not apply to terms completed abroad, even if you are a student of the LMU.

The insurance does not guarantee full coverage, especially if the damage has been caused directly to the hospital. Therefore, we explicitly recommend you to insure yourself additionally, in case of body injury and property damage you may cause.



## MENTORING TALKS

One of the doctors should become your individual mentor for questions and problems which may arise during your term at the hospital. Please make sure to contact your mentor personally to ensure that he or she is able to mentor you during the term. Your mentor's main responsibility will be to support your education and to help you find opportunities complete all of the skills requested in this logbook. Once a month you should have a "Mentoring talk" to track your progress and to make sure it is possible for you to fulfill all the goals you have set for yourself in this term.

<b>My mentor:</b>	
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### First talk:

---

*Date and signature of your mentor*

### Second talk:

---

*Date and signature of your mentor*

### Final talk :

---

*Date and signature of your mentor*

<b>Trial Examination (optional)</b>	
<b>Assessment of achievements:</b>	
<b>Date / Signature of examiner:</b>	

## PART 2: EDUCATIONAL OBJECTIVES

### GENERAL OBJECTIVES

- To develop the ability to independently care for individual patients under the supervision of medical teaching staff
- To show accountability to patients and colleagues
- To develop practical skills in the context of the relevant theoretical knowledge
- To further develop communicative, social and emotional skills
- To integrate relevant differential diagnoses in your daily routine
- To develop problem-oriented approaches
- To learn to establish a clinically founded working diagnosis
- To independently establish an appropriate treatment plan

### PERSONAL OBJECTIVES

Please define your personal educational objectives for this term in the following table:

Personal objective	fulfilled ✓

## DEFINING THE LEVELS OF COMPETENCE

The varying levels of competence are defined as follows:

### Level 1: Factual knowledge (1 point)

The student has **theoretical knowledge** relevant to the medical procedure.

### Level 2: Practical knowledge (2 points)

The student **has seen** the medical procedure being done, either on a patient or during a demonstration. He or she should be able to elaborate on some facts concerning this procedure and be able to place it into its clinical and/or scientific context.

### Level 3: Competence to act under supervision (3 points)

The student has **completed the procedure him/herself under supervision**, either on a patient or in a simulation on a model.

### Level 4: Competence to act autonomously (4 points)

The student has **completed the medical procedure independently** and in an appropriate situation, with appropriate knowledge of the indication(s) and possible complications/consequences.

## PRACTICAL SKILLS

<i>The column "beginning of term" is to be completed by yourself, try and judge your skills before starting this term. The other columns have to be signed by either your mentor or an attending physician.</i>	Beginning of term	Half term	End of term	Goal
<b><u>General medical skills</u></b>				
Structured patient history including documentation				4
Structured physical examination including documentation				4
Adequate doctor-patient-communication and use of appropriate language				4
Drawing venous blood and peripheral venous access				4
Writing doctor's letters / epicrisis				4
Presenting patients in rounds or at a conference				4
Rounding on your own patients				3
Requesting a consult for a patient				3
Glasgow Coma Scale				3
<b><u>Patient examination and diagnosis</u></b>				
Neurological examination				4
Neurological examination requirement				3

	<b>Beginning of term</b>	<b>Half term</b>	<b>End of term</b>	<b>Goal</b>
Neuropsychological examination (e.g. MoCA Test, Mini Mental State, Aphasia-Test)				3
Spinal tap				3
Interpretation of CSF results				2
Interpretation of the sonography results of the cerebral arteries				2
Taking part in neurological consults for different wards				2
<b><u>Methods</u></b>				
EEG				2
EEG-Video-Monitoring				2
Stereotaxis				1
Sleep polygraphy				2
Polysomnography				2
EMG				2
Evoked potentials (VEP, SEP, AEP)				2
Oculography				2
Posture and gait analysis				2
<b><u>Other</u></b>				
Counseling on sociomedical problems (inability to work, occupational incapacity, total disability, rehabilitation)				3
Nutritional counseling (e.g. taking Phenprocoumon)				3
Certifying conditions, inability to work and care instructions				3
Completing an application for rehabilitation				2
Vaccination counseling (concerning neurological diseases)				1
Assessment of neuroradiological examinations (MRI, CT, PET, angiography)				2
Evaluating a pain journal of a patient with headaches				2
<b><u>Sum of each column</u></b>				<b><u>85</u></b>

<b>Total score:</b>	<b>85</b>
<b>Number of points at half term:</b> <b><u>Date / signature:</u></b> _____	
<b>Number of points at the end of term:</b> <b><u>Date / signature:</u></b> _____	

#### TASKS WITH A MINIMUM NUMBER OF IMPLEMENTATIONS

<b>Task</b>	<b>achieved ✓</b>
Participation in at least one neuroradiological conference	
Participation in at least one neurovascular case conference (if possible)	
Participation in at least one epileptical surgical conference (if possible)	

#### CARE OF YOUR OWN PATIENTS

One of the main learning aspects during your practical year should be the care of your own patients, after you have a sufficient knowledge base to do so. This must be done under the supervision of a licensed doctor, who will be your contact concerning questions and problems you might have with this patient. You should take the patient's history, conduct a physical examination, make an appropriate diagnosis, recommend therapeutic options and write the discharge letter. Furthermore, you should round on your patient daily and monitor his or her course of illness.

Survey of your patients:

<b>Patient initials</b>	<b>Diagnosis</b>	<b>Doctor's signature</b>
1.		
2.		
3.		
4.		
5.		

6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		

## PRACTICAL YEAR SEMINAR TOPICS

Topic suggestions:

<b>Neurological examination I</b>	Head and cranial nerves
<b>Neurological examination II</b>	Extremities, motor and sensory functions
<b>Neurological examination III</b>	Cognitive functions (aphasia, apraxia..)
<b>Dementia and degenerative diseases</b>	
<b>Vascular processes and disorders</b>	
<b>Infectious diseases of the CNS</b>	
<b>Cerebral tumors</b>	
<b>Trauma, intracranial pressure and paraplegia</b>	
<b>Rehabilitation in hemiplegia, paraplegia and PNP</b>	
<b>Extrapyramidal motor function disorders</b>	Parkinson's disease, dystonia
<b>Multiple sclerosis</b>	
<b>Peripheral nerves</b>	Lesions
<b>Muscular diseases</b>	Myasthenia, myotonia, dystrophies, endocr./metabol. myopathies
<b>Polyneuropathy</b>	
<b>Headache syndromes</b>	Migraine, cluster headaches, trigeminus neuralgia
<b>Epilepsy</b>	
<b>Methods</b>	EEG, MRI, Doppler, nystagmography, EEG-Video-Monitoring, SPECT/PET, stereotaxis, sleep polygraphy, EMG/NLG, evoked potentials, spinal tap, angiography

If needed, other topics may be added to this list.

Your presentations concerning the practical year seminars (optional):

Date	Topic	Lecturer`s signature

### PART 3: ADDITIONAL

#### OPTIONAL LEARNING EXPERIENCES

Date/Signature	Task

**Others:**

--



## EVALUATION FORMS

In the following pages you will find a form for comments as well as a structured evaluation form for you to fill out. Please write down the name of the hospital, because this is the only way to acquire information about the quality of teaching in the different hospitals. This evaluation does not impact your grade or completion of the term. The evaluation is anonymous and treated as confidential.

Please separate the evaluation form and submit the completed forms along with your logbook in your clinic. In return, you will receive your certificate for the term. If you do not wish to assess, please note so in the form, yet still submit the page as well.

Thank you!

## COMMENTS

Name of the hospital:



Ich möchte mein Tertian evaluieren.											
<input type="radio"/> Ja <input type="radio"/> Nein (Bitte geben Sie in diesem Fall trotzdem die Evaluation zusammen mit dem Logbuch in der Klinik ab!)											
Geschlecht:			<input type="radio"/> weiblich		<input type="radio"/> männlich						
Alter: (Bitte eine Zahl zwischen 0 und 99 markieren.)											
			0	1	2	3	4	5	6	7	8
10			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Name der Klinik:											
Tertial im Fach:			<input type="radio"/> Innere <input type="radio"/> Chirurgie <input type="radio"/> Wahlf.								
Tertial-Nr.:			<input type="radio"/> 1. <input type="radio"/> 2. <input type="radio"/> 3.								
Ableistung im Ausland?			<input type="radio"/> Nein <input type="radio"/> Teilw. <input type="radio"/> Komplett								
			Trifft zu	Trifft überw. zu	Trifft etwas zu	Trifft weniger zu	Trifft kaum zu	Trifft nicht zu			
Das Logbuch ist gut strukturiert und verständlich formuliert.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Das Führen eines Logbuchs ist für meine Ausbildung sinnvoll.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Das Führen eines Logbuchs ist für mich eine zeitraubende Beschäftigung.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Mein Logbuch habe ich gewissenhaft geführt.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Meine Kompetenzen habe ich regelmäßig selbst überprüft.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Ich bin selbst auf Ärzte / Dozenten zugegangen, damit mir fehlende Kompetenzen beigebracht werden konnten.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Ich hatte mein Logbuch in der Kitteltasche dabei.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Das Logbuch hat für meine Ausbildung im Ausland einen guten Rahmen vorgegeben (nur ausfüllen bei Auslandsaufenthalt).			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Die Kompetenzen haben mich überfordert.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Das Tertial war eine gute Vorbereitung auf meine Zukunft als Arzt.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Ich habe meine persönlichen Lernziele erreicht.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Im Vergleich zu meinem vorangegangenen Tertial (beim ersten Tertial im Vergleich zur letzten Famulatur) haben sich meine Fertigkeiten verbessert.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Meinen Gesamt-Lernerfolg im PJ würde ich als gut bezeichnen.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Die strukturellen Rahmenbedingungen für meine PJ-Ausbildung (Räumlichkeiten, Arbeitsplatz, Internetzugang, Literaturzugang) waren vorhanden.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Ich wurde gut in die Klinik eingeführt und gut eingearbeitet.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Es wurde mir ermöglicht, mir selbst einen Mentor zu suchen.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Es fanden regelmäßig Gespräche mit meinem Mentor statt.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Rotationen waren in meinem Tertial ausreichend vorgesehen.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Ca. 20% meiner Arbeitszeit durfte ich zur "strukturierten Weiterbildung" (Unterricht, Lehrvisiten, Eigenstudium...) verwenden.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
PJ-Unterricht fand regelmäßig statt.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Ich musste hauptsächlich nicht-ärztliche Tätigkeiten (z.B. Botengänge) durchführen.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Das Ausbildungskrankenhaus hat sich bei der Umsetzung der geforderten Lernziele / Veranstaltungen engagiert.			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
			Trifft zu		Trifft nicht zu						
Ich durfte selbständig Patienten unter Supervision betreuen.			<input type="radio"/>	<input type="radio"/>							
Es wurden freiwillige mündlich-praktische Prüfungen angeboten.			<input type="radio"/>	<input type="radio"/>							
Ich habe das Angebot freiwilliger Prüfungen wahrgenommen.			<input type="radio"/>	<input type="radio"/>							

**Postal address for turning in logbooks:**

**Klinikum der Universität München, Med. Poliklinik**

**PJ-Koordination (Raum D0.48 im ZeUS)**

**Pettenkoferstraße 8a**

**80336 München**

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Dr. med. Miriam Gisi

Translation: Gabriele Illes / Lisa Hönikl. Special thanks also to Dr. med. Amanda Tufman.

3. Edition in English, 2018

We would like to thank our colleagues at the Hospital Großhadern and the persons responsible, from different specialities, for the support in designing this logbook.

Due to reasons of readability, the masculine form is used most often. This does not have any implications on the composition of student body or staff, neither should it reduce the set of recipients.

The educational contents of this logbook are without any claim to completeness.