

European Paediatric Neurology Training Advisory Board

Report nr 5:

EVALUATION OF THE PAEDIATRIC NEUROLOGY TRAINING IN AUSTRIA

Visiting Delegates:-

Richard Newton (UK) Rozalia Kalmanchey (Hungary)

With the advice and support of Dana Craiu – Chairman TAB

On behalf of the European Paediatric Neurology Training Advisory Board:

Chairman: Dana Craiu

CNA delegates:

EPNS Education and Training Committee delegates:

Richard Newton Rozalia Kalmanchey Lard Palm Coriene Catsman-Berrevoets

President EPNS: Lieven Lagae

Secretaries EPNS: Banu Anlar Peter Baxter

Introduction

In 2002 Child Neurology was accepted on the European level as a subspecialty of Paediatrics as well as of Neurology. In the process of the definition of the specialty a European training programme, the syllabus of Child Neurology, was compiled and accepted by the European Paediatric Neurology Society (EPNS) and by the Committee of National Advisors in Child Neurology (CNA). As a means of implementing the syllabus into the training of Child Neurology specialists in the European countries, the EPNS and the CNA in 2004 agreed to activate a Training Advisory Board as a joint effort. The Training Advisory Board includes four delegates from the CNA, four from the EPNS' Education and Training Committee and the president and secretary of the EPNS. The European Academy of Childhood Disability is represented by one delegate. The Board is chaired by the chairperson of the CNA.

The intention of the Training Advisory Board is to offer to national child neurology societies the opportunity to work together with them to evaluate the national training system. The ultimate aim is that the trainees of each European country be expected to reach a quality of training that is in accordance with the European training programme as defined by the Syllabus.

The Austrian Paediatric Neurologists through their representation in the Committee of National Advisors requested an evaluation of the Austrian training programme in accordance with this aim. This visit was carried out on 10th and 11th June, 2010 by Dr Richard Newton (Manchester, UK) and Prof Rozalia Kalmanchev (Budapest, Hungary). Unfortunately, Prof Dana Craiu (Bucharest, Roumania), Chairman of the TAB, was unable to attend at the last minute, but she has contributed to the editing of this report.

Demographics and medical care

Austria is a federal state with 8.35 million inhabitants, 1.763 millions of which are below 20 years of age.

Vienna is Austria's capital with 1,9 million inhabitants by far the biggest city-centre, followed by Graz, Linz, Salzburg, Innsbruck, Klagenfurt, St.Poelten, Bregenz, and Eisenstadt.

Table 1 Austria's Federal Countries + inhabitants, Capitals

Federal Country	Inhabitants	Capitals
Wien	1,705.080	Wien (1.7 Mill)
Niederösterreich	1,608.590	St. Pölten (51.688)
Burgenland	283.954	Eisenstadt (12.798)
Oberösterreich	1,411.606	Linz (189.284)

Steiermark	1,208.544	Graz (291.890)
Salzburg	530.488	Salzburg (147.685)
Kärnten	559.019	Klagenfurt (93.571)
Tirol	707.209	Innsbruck (119.584)
Vorarlberg	369.294	Bregenz (27.611)

Fig. 1. Map of Austria and its 9 federal countries



Public Health Services:

It is usual for Austrian citizens have a public health insurance, which covers all diagnostic and health care costs. Costs for rehabilitation are either covered by health insurance if the disability is acquired, or by federal public sources if the disability is congenital.

Primary health care for children is provided by general paediatricians outside hospitals (private offices), but, in rural areas general practitioner (GPs) do a considerable part of the provision. Early development is documented in the so called “Mutter-Kind-Pass” (health pass). If there is suspicion of a developmental or neurological disorder, paediatricians as well as GPs usually refer children to the nearest children’s hospital that provides special services in child neurology.

Paediatric Hospitals in Austria:

The 9 federal countries of Austria have a total of 43 Paediatric Hospitals. 23 of which have listed a child neurology service among their outpatient clinics. A few of them (to our knowledge 4 of 23) only provide epilepsy clinics.

There are 4 Medical Universities with attached Hospitals in Austria, AKH (Allgemeines Krankenhaus Wien), Vienna, Medical University Graz, Medical University Innsbruck, and the

Private Medical University Salzburg. The Medical Universities cover all aspects of student education and all provide tertiary child neurology services.

Details of the various clinics and facilities which will contribute to training programmes were submitted prior to our visit and they are appended to this report.

Paediatric Neurology Outpatient Centres:

In contrast to Germany, Austria does not have a system of “Sozialpädiatrische Zentren”, but there are outpatient - centres for Developmental Medicine and Long-Term Rehabilitation, headed by Child Neurologists with variable staffing of therapists and psychologists.

These centres are more frequent in the areas of Vienna, Upper and Lower Austria, as well as in Vorarlberg, while the southern part of Austria, and parts of Salzburg and Tyrol is for some reason sparsely supplied.

Subspeciality Paediatric Neurology (Neuropädiatrie) in Austria

In 2007 the Austrian College of Physicians (Österreichische Ärztekammer) acknowledged Child Neurology among one of five subspecialities of Paediatrics and Adolescent Medicine (Additivfach).

During the transition period about 100 paediatricians have been acknowledged retrospectively as Child Neurologists by providing certificates that they have worked in a five-year full time position in a centre covering all fields of Paediatric Neurology to meet the full curriculum.

These 100 Child Neurologists are unevenly distributed over the national area (please see the attached map, describing the distribution of paediatric neurologists in Germany, Austria, and Switzerland).

Neuropädiater in Deutschland, Österreich und der Schweiz



Since 2007 all fellows aiming for Child Neurology have to pass the formal curriculum. The content of the curriculum has been written by the Austrian working group on Child Neurology and is closely linked to the European Syllabus for Child Neurology. In a 3 year programme fellows have to pass a total of 5 obligatory modules plus one module focusing on a special interest.

Only one of these three years can be acknowledged from the general Paediatric Training, if spent in an in- or outpatient service for child neurology.

Module 1: Acute neurology: acute presentation of patients in child neurology, training on new referrals, diagnostics and work-up. (6-18 Mo)

Module 2: Habilitation and rehabilitation (6-18 Mo)

Module 1 + Module 2 = 24 Mo

Module 3: Adult Neurology (6 Mo)

Module 4: Child Psychiatry (6 Mo 50%)

Module 5: Imaging, Neurophysiology, neuropathology, introduction to research, multidisciplinary management, ethics, neuro-genetics, neuro oncology, neonatal neurology (6 Mo 50%)

The Austrian Society of Paediatrics and Adolescent Medicine (ÖGKJ) has a working group on Child Neurology (around 110 members), which holds regular internal meetings 4 times a year. Twice a year meetings are dedicated to professional politics and twice a year to clinical issues in Child Neurology (Case discussions, guidelines etc)

Training Sites:

So far a total of eight Austrian Paediatric centres have been acknowledged as (full or partial) training centres for Child Neurology. They are attributed a number of possible trainees or fellows determined by the actual number of paediatricians acknowledged as subspecialists in child neurology in that centre (two CN specialists is a minimum to educate one fellow).

Centres have been granted training site status (envisaged trainee numbers in brackets):

Vienna AKH : 2

Vienna Preyer'sches Kinderspital: 2

Graz Children's Hospital: 2

Linz Landesfrauen- und Kinderklinik: 2

Linz Barmherzige Schwestern Hospital: 1 (only partially)

Linz Barmherzige Brüder Hospital: 1 (only partially)

Salzburg: not yet applied

Bregenz: 1

Klagenfurt: 0

Innsbruck Children's Hospital: 3

Fellows will need to document their training activities and get written certification for each module by the respective training centre. According to the regulations of the Austrian College of Physicians there will be no formal exam at the end of the curriculum.

Although CN has been acknowledged as a subspecialty of Paediatrics or Neurology or Child Psychiatry (and psychiatry but only for an observational period of 10 years) in 2007, the issue of additional paid positions is still unsolved. At no single centre has the number of medical

staff been expanded to enable this program to start. Thus, only few trainees or fellows have been able to start a formal curriculum.

Description of Training Facilities

Each training centre kindly sent a delegation to the visiting team and made a presentation to complement data submitted on the pre-visit questionnaires (PVQs). These PVQs are appended to this report and in most cases represent approximate figures or estimated data. The visit was organised by Professor Gunther Bernert of the Preyer Hospital in Vienna, Dr. Christian Rauscher, head of the Austrian Association of Paediatric Neurologists, and Prof. Barbara Plecko, Graz, were also in attendance. The Austrian Association of Paediatric Neurologists is clearly a well integrated group offering mutual support primarily through its twice yearly meetings. One of these annual meetings concerns itself with service development models and other service management issues. The other is devoted to peer-review of difficult cases. Both of these opportunities are welcomed by the participants.

The TAB visit came at a time of transition for the training of Paediatric Neurologists in Austria. Following the specialty recognition in 2007 and the splitting of paediatric neurology from child psychiatry training, programmes have been realigned and re-organised and in most cases new trainees have not yet been assimilated into the new structure. Nonetheless from the data and information presented the TAB visiting team had a clear idea of programme content and organisation. Additionally they were able to receive information from trainees having just completed, or who were about to complete their training under the aegis of the new system.

Each presentation (and our interview of the trainees from Salzburg, Vienna and Linz) made it clear that the neurology services involved met all the criteria sought by the European Paediatric Neurology Society training syllabus. The populations covered were large enough to ensure a steady flow of children and families with acute neurological conditions in need of diagnosis, treatment, help and support to meet the experience required by neurologists in training. These opportunities in acute and outpatient neurology services were complemented by experience and opportunities in rehabilitation services concerning themselves also with diagnosis, the management of spasticity, liaison with related remedial and educational services and the counselling of families. Each service had been able to establish and exploit links with adult neurology services so that this requirement could be met and similarly for child psychiatry.

Each centre offered opportunity for training in practical procedures including competence in the reading of electroencephalograms, lumbar puncture, closed needle muscle biopsy and the administration of botulinum toxin (ultrasound controlled).

The trainees have to complete six years in general paediatric training (one of these years may be counted towards neurology training requirement as appropriate). Many trainees have experience of neonatal and paediatric intensive care unit practice during this period. Trainees commented on the quality of their supervision during their paediatric neurology training. The only criticisms raised by trainees related to a lack of opportunity to pursue research during the training period (a common observation over many European countries) and also some lack of flexibility in terms of being able to access some more specialist training opportunities based in other units due to an inflexibility in funding arrangements.

Notes, caveats and specific points in relation to individual units are as follows:

Medical University Hospital, Vienna

A large busy unit, with close links to related services. There is proximity to academic departments which facilitates research opportunity. Specialist attachments are available in neonatology (with neurology); oncology, intensive care with a first class placement also available in neurophysiology in the department of Dr Marta Feucht. This opportunity offers training in full competency in central neurophysiology, epilepsy-surgery selection, EEG recording, the diploma being conferred on successful candidates if the exit examination is attempted successfully.

Preyer Hospital, Vienna.

Located in South East urban Vienna. The hospital offers a rich experience in acute and general paediatric neurology along with rehabilitation services.

ZEFF

A community-based child development centre offering experience in full training in all aspects of neurodevelopmental medicine. Experience in this unit would have to be linked with another (probably most practically a Viennese) unit. A longer term placement would probably be best say for half a day over at least a six month period.

Innsbruck, Salzburg and Linz

All busy services with a wealth of clinical material and research opportunity.

Villach

A provincial town of about 40,000 people offering a busy in- and outpatient service with links also to rehabilitation. The service could not stand alone as a training department as it lacks critical relationships with a number of core services including paediatric neurosurgery , metabolic medicine and genetics. It is clear, however, it does offer good opportunities in an urban setting for experience in the management of common problems in acute and chronic paediatric neurology and rehabilitation. The TAB team saw great value in integrating this in a rotation with another established training department (perhaps Graz) if funding and logistical problems could be overcome.

Recommendations/Suggestions

1. The TAB has never before encountered such good training potential without any incumbent trainees! The problem here is that specialty recognition for paediatric neurology in Austria came without any allocated (and funded) training posts. This lack of funding is clearly an issue which needs urgent attention. Neurodisability (including learning difficulties) and neurological illness affects at least 3% of the population. The identification of funded posts allocated to paediatric neurology training is therefore very much in the National interest.

Suggested strategies in order to achieve this aim might include:

- i. The National Association of Paediatric Neurologists in Austria clearly speaks with a strong and united voice on this issue. They would do well to raise a dialogue with an alliance of influential parent support groups within Austria in order to raise the political importance and profile of this issue.
- ii. We have suggested how some of the training placements we have examined (and we understand some of those we have not examined) might be usefully combined in a training rotation scheme to maximise training places and the quality of training programme content. The “Holders” (hospital managements) are shared by some of these schemes. Direct application to the Holders by the National Association might bring some success in this respect.
- iii. The National Association of Paediatric Neurologists in Austria given its united voice would do well to recruit the help and support of the Society of

Paediatricians and in turn the College of Physicians to make representation to Government for training opportunity expansion at a national level.

iv. If this strategy does not succeed it may be that another overarching body such as a university might make a useful contribution in identifying complementary training opportunities in different centres, thus creating sufficient and effective training rotations.

2. The National Association might usefully consider adopting a more “hands-on” role in training programme supervision/direction. Suggestions for consideration might include:-

i. Identifying the demographic profile of paediatric neurologists in post, their ages, predicted date of retirement, along with the identification of any new permanent specialist posts likely to be established. These data would allow the number of trainees entering programmes roughly to match the national requirement.

ii. To identify a benchmark for training programme content. This would contain detail over and above that defined by the TAB paediatric neurology training programme syllabus. It might for example make recommendations on a minimum number of supervised outpatient clinics/ward rounds each week, minimum time to be spent in the specialty of paediatric neurology (so that duties within general paediatrics do not dilute the training experience too much), the content of any formal teaching programme and so on.

iii. A system of formal or indeed informal regular (but not necessarily frequent) peer review visits might be made by a team from one training programme to review the resources, content and structure of another training programme within Austria to seek continuing quality improvement of the educational and training experience.

3. Within each training programme a director/educational supervisor needs to be identified. This person would steer the trainee through the years spent within programme. A system of annual appraisal is envisaged whereby the training needs of that individual are met through appropriate placement in the subsequent years.

Conclusions

Austria has the resources, experience and expertise within its community of paediatric neurologists to deliver high quality paediatric neurology training. Suggestions have been made to help secure good educational and training experience for doctors entering the suggested training programmes. In order to establish sustainability of the training opportunities identified to date a funding stream needs to be identified for the posts allocated to training paediatric neurologists at any one time.

Richard W. Newton Rozalia Kalmanchey Dana Craiu

For and on behalf of the European Training Advisory Board in Paediatric Neurology.

JUNE 2010

We are grateful to Profs. Barbara Plecko, Günther Bernert, and Christian Rauscher from Graz, Vienna, and Salzburg for the provision and compilation of the information set out in this report.

APPENDIX: Data from Pre-visit Questionnaires

Graz

Medical University Hospital

Innsbruck

Division of Neuropediatrics Innsbruck Medical University

Linz

Hospital Barmherzige Schwestern Linz

Institut für Sinnes- und Sprachneurologie, Konventhospital Barmherzige Brüder Linz

Landes Frauern und Kinderklinik Linz

Salzburg

Landeskllinik für Kinder- und Jugendheilkunde

Vienna

G v. Preyer'sches Kinderspital, SMZ-Ost, Vienna

Medical University of Vienna

St Anna Hospital Vienna

Villach

LKH Villach, Kinderabteilung

1 GRAZ

European Training Advisory Board

Pre-visit Data Sheet

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

Centre –name: [Department of Pediatrics, Medical University Graz](#)

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology
Paediatric Neurologists	3.5	Barbara Plecko Ursula Gruber-Sedlmayr Michaela Brunner-Krainz Alexander Kortschak	100% 100% 100% 50%
Consultants in Neurodisability	1.34	Ute Maurer-Fellbaum Christa Rotky-Fast (preterm follow-up)	67% 67%
Paediatric Neurosurgeons	1	Hans Eder Josef Legat Senta Kurschel	70% 15% 15%
Neuroradiologists		No specialized pediatric neuroradiologist, 6 pediatric radiologists, separate MRI at the pediatric center, as well as perfusion CT Feed back with adult neuroradiologists on “special cases”	

Neurophysiologists (EEG)	No extra physicians	EEG is performed by specialized nurses or technicians and interpreted by BP, UGS, MBK, AK and UMF, who all have the Austrian EEG certificate Our outpatient service has been certified as an epilepsy center by the ILAE	Approx. 75% to 100% if calculated as cumulative time
Neurophysiologists (EMG)	-	-	

Paediatric Neurology and Neurodisability Trainee grades:			
SpRs in general paediatrics with an interest in neurology	variable	Occasional SPRs if there is staff capacity, actually 1 Sabine Prager-Puntigam In Austrian Child Neurology CN has only been acknowledged as a subspeciality in 2007. At the pediatric clinic in Graz there are 5 child neurologists in services. We are accredited as a training center by the Austrian college of Physicians (Ärztelkammer) to have 2 trainees/fellows at a time. So far within our clinic no positions for trainees or fellows have been dedicated to this training programme. This is true for all other acknowledged subspecialities in Pediatrics.	100%
SpRs in tertiary in neurodisability	-	-	
Lecturers	2	Barbara Plecko Ursula Gruber-Sedlmayr	
Research posts	0.5	Doris Hofer, neurometabolic lab, doctor for medical sciences	50%

Other Career Grades	-	We are hosting guests from abroad within the Austrian American Foundation (AAF) 3 mo a year and on special request 1-2 mo / year	
Senior House Officers		This to my knowledge does not exist within the Austrian system	

Multidisciplinary Team:			
Neurology nurses	-	-	
Liaison nurses	-	-	
Physiotherapy	7.66	Eber Hortig Kerschischnik Kogler Kögl Lackner Lindenmann Löwenstein Mitteregger Reisner Soral	75% 100% 75% 50% 25% 50% 66.66% 66.66% 88% 75% 66.66% 25% free
Occupational therapy	2.67	Holzer Behringer Kochauf Zaiser	66,66% 50% 75% 85%
Speech and language therapy	3.66	Knappitsch Mund Schmee Stieg Schwaiger	66,66% 87,5% 75% 87,5% 50%
Social Worker	0.5	Astis Schrag	50%

Psychologists (clinical)	0.5	Elisabeth Fandler	10%
Psychologists (neuropsychologists)	0.85	Carla Höflechner-Gumprecht Silvia Markart	75% 10%
Adult Neurologists involved in training programme	-	6 months of the curriculum have to be spent on an adult neurology ward. We are in close cooperation with adult epileptologists and experts for MS for patient transition but as no fellow has started the full curriculum so far there is no formal involvement of adult Neurology.	
Child and Adolescent psychiatrists involved in training programme	1.5	There are 2 MD's at our clinic who have passed additional training Wolfgang Kaschnitz Alexander Kortschak	100% 50%
Other	-	-	

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per week:	All five working days
Number of outpatient consultations in paediatric neurology per year:	2700 to 2800
Number of new paediatric neurology outpatient consultations per year:	20 to 25 %
Number of outpatients who are GP referrals:	About 50 %
Number of outpatients who are tertiary referrals:	10% referred from other hospitals, about 40% referred by pediatricians working outside hospitals

Number and type of specialist clinics per month (eg epilepsy, muscle, neuro-oncology etc):	We do not differentiate specialist clinic days, but delineate patients to individual doctors (eg. UGS and BP for neurooncology, MBK and BP for neurometabolics etc.)
Number of peripatetic clinics per month:	None
Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine):	1, neurogenetics and dysmorphology, set every 3 rd Tuesday /month 1/mo, neuroorthopedics on demand 2-3/mo neuro-radiology on demand
Number of neurodisability clinics per week:	4, every day except friday
Number of paediatric neurodisability consultations per year:	989

ACTIVITY DATA: INPATIENTS

Number of paediatric neurology inpatients per year:	Around 250 to 300
Number of paediatric neurology day cases per year:	Our Childrens Hospital does not run a day-clinic
Number of paediatric neurology PITU patients per year:	If PITU is a shortcut for pediatric intensive care units (PICU) approximately 50 per year.
Number and source of other consultation requests per year:	Consultations on pediatric surgery wards are included in the total number of consultations Approximately 100 to 120
<ul style="list-style-type: none"> • PITU 	Approximately 30
<ul style="list-style-type: none"> • Neonatal unit 	Approximately 30
<ul style="list-style-type: none"> • Cardiology 	Approximately 30
<ul style="list-style-type: none"> • Psychiatry 	None
<ul style="list-style-type: none"> • Other (please specify) 	Oncology: Approximately 30

PROXIES FOR UNIT ACTIVITY	
New epilepsy cases seen each year:	90-100
New brain tumour cases each year:	10-20
New Duchenne cases seen each year:	1-2
Other: Neurometabolic disorders per year	Around 10 new cases

CONTENT OF TRAINING PROGRAMME

Complete the following chart by providing the duration of the activities specified below for each year of the training programme. Answers should be provided as indicated, ie in months, weeks or other appropriate time period.

	First Year	Second Year	Third Year	Fourth Year
1. Clinical Training	months	months	months	months
Frequency of night call	4/mo	3-4/mo	3-4/mo	
Number of clinical rounds	1 Per week	1 Per week	1 Per week	Per week
2. Research training and experience	- months	- months	- months	months
3. Frequency of on-call	Not in our system			
4. Teaching experience	- Hours/ Month	- Hours/ Month	- Hours/ Month	Hours/ Month
5. Audit activity	Planned 2/mo Hours/ Month	Planned 2/mo Hours/ Month	Planned 2/mo Hours/ Month	Hours/ Month
6. Number of meetings per month:	4	4	4	

Neuropath/muscle histology				
Neuroradiology	Planned 1/week	Planned 1/week	Planned 1/week	
EEG	On daily teaching	On daily supervision	On daily supervision	
Adult neurology clinical		6 months during 2 nd or 3 rd year of training		
Research	Is not part of our curriculum			
Journal Club				
Postgraduate				
Postgraduate courses (please list)				

Completed by Barbara Plecko **May 11th 2010**

2. INNSBRUCK

European Training Advisory Board

Pre-visit Data Sheet:

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

Centre –name: Division of Neuropediatrics Innsbruck

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology
Paediatric Neurologists	5	Baumann Haberlandt Karall Rostásy Scholl-Bürgie (50%)	Full-time
Consultants in Neurodisability	1	Gedik	Full-time
Paediatric Neurosurgeons	2	Laimer, Obwegeser	Part-time
Neuroradiologists	2	Gotwald, Cortes	Part-time

Neurophysiologists (EEG)	1	Haberlandt, Baumann	Full-time
Neurophysiologists (NCS, SSEP, AEP, VEP)	2	Baumann	Full-time

Paediatric Neurology and Neurodisability Trainee grades:			
SpRs in general paediatrics with an interest in neurology		Baumgartner 33%	
SpRs in tertiary in neurodisability	1	Albrecht 50%,	
Lecturers	2	Rostásy Karall	
Research posts			
Other Career Grades			
Senior House Officers			

Multidisciplinary Team:			
Neurology nurses	5	Kundtner, Schimana, Schreiber, Kraler, Zwick, Wannemacher, Burgi	Full-time

Liaison nurses			
Physiotherapy	8		Full-time
Occupational therapy	3		Full-time
Speech and language therapy	3		Full-time
Social Worker	2	Bär, Grinschgl	Part-time Liaison service
Psychologists (clinical)			
Psychologists (neuropsychologists)	2	Zotter, Fussenegger	Full-time
Adult Neurologists involved in training programme			
Child and Adolescent psychiatrists involved in training programme			
Neurometabolic Laboratory		Scholl-Bürgie Wondrak (Laboratory technician)	(50%) Full-time

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per week:	10/week
Number of outpatient consultations in paediatric neurology per year:	4000-5000 patients/a Neuropädiatrie, EEG, CB, neurometabolic
Number of new paediatric neurology outpatient consultations per year:	1000/a
Number of outpatients who are GP referrals:	2000/a
Number of outpatients who are tertiary referrals:	300/a
Number and type of specialist clinics per month (eg epilepsy, muscle, neuro-oncology etc):	Epilepsy: 30/month Muscle: 4 Neurometabolic clinic: 8/month Neuroimmunology clinic: 2/month
Number of peripatetic clinics per month:	?
Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine):	Orthopedic-neuropediatric clinic 1/month
Number of neurodisability clinics per week:	12/week
Number of paediatric neurodisability consultations per year:	1200

ACTIVITY DATA: INPATIENTS

Number of paediatric neurology inpatients per year:	1200
Number of paediatric neurology day cases per year:	4-5/d
Number of paediatric neurology PITU patients per year:	30-40
Number and source of other consultation requests per year:	400
<ul style="list-style-type: none"> • PITU 	50 + EEGs: 200-250

• Neonatal unit	50 + EEGs:100
• Cardiology	+EEGs: 200-250
• Psychiatry	10 +EEGs: 200
• Other (please specify)	Surgery, ENT, Ophtalmology, Orthopedics (n=50), Adult Neurology (n=10)
PROXIES FOR UNIT ACTIVITY	
New epilepsy cases seen each year:	80-90/a
New brain tumour cases each year:	10-15/a
New Duchenne cases seen each year:	3/y
MS/ADEM/GBS/OMS <i>Neurometabolic Diseases</i> <i>CP</i>	20/y 30/y 15/y

CONTENT OF TRAINING PROGRAMME

Complete the following chart by providing the duration of the activities specified below for each year of the training programme. Answers should be provided as indicated, ie in months, weeks or other appropriate time period.

	First Year	Second Year	Third Year	Fourth Year
1. Clinical Training	12 months		months	months
Frequency of night call	3			
Number of clinical rounds	2 Per week	Per week	Per week	Per week
2. Research training and experience	months	months	months	months
3. Frequency of on-call				

4. Teaching experience	Hours/ Month	Hour s/ Mont h	Hour s/ Mont h	Hours/ Month
5. Audit activity	Hours/ Month	Hour s/ Mont h	Hour s/ Mont h	Hours/ Month
6. Number of meetings per month: Neuropath/muscle histology	16 none			
Neuroradiology	1/week 60 min			
EEG	Exposure throughout the tarianing			
Adult neurology clinical	none			
Research	1/month report of research activities in the unit			
Journal Club				
Postgraduate				
Postgraduate courses Neuropediatric - Genetics round	DevelopmentalNeurology course 1/week 60 min			

3. LINZ

European Training Advisory Board

Pre-visit Data Sheet

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

Centre –name: Landes Frauern und Kinderklinik Linz

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology
Paediatric Neurologists	5	Rossegg Ulrike Meindl Roswitha Biebl Ariane Schwarz Rudolf Ebetsberger Georg	
Consultants in Neurodisability	4	Rossegg Meindl Biebl Schwarz	
Paediatric Neurosurgeons	2	Prof. Holl Kurt Parsaei Babak	
Neuroradiologists	4	Povysil Brigitte Frechinger Bettina Ginhör Christine Maria Prof. Fellner Franz	
Neurophysiologists (EEG)	4	Rossegg Biebl Schwarz Ebetsberger	

Neurophysiologists (EMG)	2	Rotaru Juliane Topakian Raffi	
-----------------------------	---	----------------------------------	--

Paediatric Neurology and Neurodisability Trainee grades:			
SpRs in general paediatrics with an interest in neurology	4	Furthner Dieter Csillag Bernhard Kröpl Marion Stark Birgit	
SpRs in tertiary in neurodisability	1	Stark Birgit	
Lecturers	2	Rossegg Ulrike Schwarz Rudolf	
Research posts	1	Biebl Ariane	
Other Career Grades		MD	
Senior House Officers			

Multidisciplinary Team:			
Neurology nurses	2	Meisinger Eva Höllwirth Silvia	
Liaison nurses		available	

Physiotherapy	7	Diendorfer Andrea König Melanie Mittermayr Sabine Mayr Michaela Kastner Irene Affenzeller Ursula	
Occupational therapy	4	Ostermann Sybille Winter Maria Fuchs Lucia Gmeinbeck Julia	
Speech and language therapy	2	Zauner Ulrike Schuller Kristina	
Social Worker	2	Buchberger Isabella Tschebul Kathrin	
Psychologists (clinical)	4	Böttcher Ulrike Denk-Antlinger Heidi Pauli Martina Nelböck Birgit	
Psychologists (neuropsychologists)	1	Böttcher	
Adult Neurologists involved in training programme	3	Rossegg Ulrike Schwarz Gabriele Hamberger Martin	
Child and Adolescent psychiatrists involved in training programme	5	Meindl Roswitha Merl Michael Preissler Till Klinglmayr Martin Kröswang Armin	
Other			

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per week:	30
Number of outpatient consultations in paediatric neurology per year:	1500
Number of new paediatric neurology outpatient consultations per year:	200
Number of outpatients who are GP referrals:	150/year
Number of outpatients who are tertiary referrals:	10/year
Number and type of specialist clinics per month (eg epilepsy (16), muscle (4), neuro-oncology (4) etc):headache (4)	28
Number of peripartetic clinics per month:	0,5
Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine:	10 cases/year
Number of neurodisability clinics per week:	9
Number of paediatric neurodisability consultations per year:	900

ACTIVITY DATA: INPATIENTS

Number of paediatric neurology inpatients per year:	800
Number of paediatric neurology day cases per year:	300
Number of paediatric neurology PITU patients per year:	30
Number and source of other consultation requests per year:	
• PITU	30
• Neonatal unit	50
• Cardiology	25

<ul style="list-style-type: none"> • Psychiatry 	5
<ul style="list-style-type: none"> • Other (please specify) 	
PROXIES FOR UNIT ACTIVITY	
New epilepsy cases seen each year:	100
New brain tumour cases each year:	10
New Duchenne cases seen each year:	1,5
Other:	

CONTENT OF TRAINING PROGRAMME

Complete the following chart by providing the duration of the activities specified below for each year of the training programme. Answers should be provided as indicated, ie in months, weeks or other appropriate time period.

	First Year	Second Year	Third Year	Fourth Year
1. Clinical Training	80 months	80 months	80 months	Months
Frequency of night call	5/month	4/month	4/month	
Number of clinical rounds	5 Per week	5 Per week	5 Per week	5 Per week
2. Research training and experience	4 months	4 months	4 months	Months
3. Frequency of on-call				
4. Teaching experience	20 Hours/ Month	20 Hours/ Month	20 Hours/ Month	Hours/ Month
5. Audit activity	6 Hours/ Month	6 Hours/ Month	6 Hours/ Month	Hours/ Month

6. Number of meetings per month: Neuropath/muscle histology	2	2	2	
Neuroradiology	30 min/week			
EEG	25/week	35/week	50/week	
Adult neurology clinical	0	0	1 hour/week	
Research	1 hour/year			
Journal Club	2/year			
Postgraduate				
Postgraduate courses (please list)	EEG-Course 1	EEG-Course 2+3	Scholarship and clinical experience in other countries (EU+USA)	

European Training Advisory Board

Pre-visit Data Sheet

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

Centre –name: Institut für Sinnes- und Sprachneurologie, Konventhospital Barmherzige Brüder Linz

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology
Paediatric Neurologists	4	Prim. Dr. Fellingner OA Dr. Sailer OÄ Dr. Ziebermayr OÄ Dr. Thiede	
Consultants in Neurodisability	0		
Paediatric Neurosurgeons	0		
Neuroradiologists	0		
Neurophysiologists (EEG)	0		
Neurophysiologists (EMG)	0		

Paediatric Neurology and Neurodisability Trainee grades:			
SpRs in general practitioners with an interest in neurology	1	Dr. Dirmhirn	
SpRs in tertiary in neurodisability	0		
Lecturers			

Research posts	0		
Other Career Grades			
Senior House Officers	3	OA Dr. Sailer OÄ Dr. Ziebermayr OÄ Dr. Thiede	

Multidisciplinary Team:			
Neurology nurses	0		
Liaison nurses	0		
Physiotherapy	0		
Occupational therapy	2	E. Mock K. Altenburger	
Speech and language therapy	13	M. Aigner, B. Binder, A. Brunnmayr, C. Hofmann, E. Huber, R. Kapplmüller, M. Kraler, Y. Mayer, M. Schwarzenbrunner, K. Stadlbauer, B. Stelzer, D. Thalhammer, N. Thurnn	
Social Worker	4	S. Schrittwieser, B. Klaner, N. Helbig, A. Stöttinger	
Psychologists (clinical)	11	G. Gruber, R. Klein, I. Wimmer, T. Riczinger, M. Schöfl, A. Steinbauer-Schütz, Dr. J. Tomaselli (i.A.), B. Tschiggerl (i.A.), E. Linsenmair, M. Heinz, E. Heidl	

Psychologists (neuropsychologists)	1	M. Schöfl (i.A.)	
Adult Neurologists involved in training programme	2	Prim. Dr. Fellingner OA Dr. Sailer	
Child and Adolescent psychiatrists involved in training programme	1	Dr. E. Ziebermayr	
Clin. Linguists	6	Dr. Holzinger Dr. Brandstätter Dr. Tschugmell Mag. Holzinger Mag. Stempfer Mag. Fritzer	
Audiologists	1	M. Bernauer	

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per week:	Daily
Number of outpatient consultations in paediatric neurology per year:	2000
Number of new paediatric neurology outpatient consultations per year:	1300
Number of outpatients who are GP referrals:	500
Number of outpatients who are tertiary referrals:	500
Number and type of specialist clinics per month (eg epilepsy, muscle, neuro-oncology etc):	--
Number of peripatetic clinics per month:	

Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine):	--
Number of neurodisability clinics per week:	--
Number of paediatric neurodisability consultations per year:	--

ACTIVITY DATA: INPATIENTS

Number of paediatric neurology inpatients per year:	Institution is just for outpatients
Number of paediatric neurology day cases per year:	All new patients are day cases
Number of paediatric neurology PITU patients per year:	--
Number and source of other consultation requests per year:	--
<ul style="list-style-type: none"> • PITU 	--
<ul style="list-style-type: none"> • Neonatal unit 	--
<ul style="list-style-type: none"> • Cardiology 	--
<ul style="list-style-type: none"> • Psychiatry 	--
<ul style="list-style-type: none"> • Other (please specify) 	--
PROXIES FOR UNIT ACTIVITY	
<i>New epilepsy cases seen each year:</i>	--
<i>New brain tumour cases each year:</i>	--
<i>New Duchenne cases seen each year:</i>	--
<i>Other:</i>	--

European Training Advisory Board

Pre-visit Data Sheet

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

Centre: Hospital Barmherzige Schwestern Linz

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology
Paediatric Neurologists	2	Manuela Baumgartner Regina Pflügl	
Consultants in Neurodisability	4	Manuela Baumgartner Regina Pflügl Veronika Pilshofer Eva Kugler	
Paediatric Neurosurgeons	2		Kurt Holl Parsaei Babak
Neuroradiologists	2	Anton Schoissengeier	Claudia Möller-Hartmann
Neurophysiologists (EEG)	1	Regina Pflügl Veronika Pilshofer	
Neurophysiologists (EMG)	2		Norbert Albrecht Michaela Auer – Grumbach
VEP,ERG	2		Barbara Neudorfer Liselotte Keintzel

AEP	1		Josef Meindl
-----	---	--	--------------

Paediatric Neurology and Neurodisability Trainee grades:			
SpRs in general paediatrics with an interest in neurology	2	Veronika Pilshofer Eva Kugler	
SpRs in tertiary in neurodisability	2	Eva Kugler Veronika Pilshofer	
Lecturers	0		
Research posts	0		
Other Career Grades		MD	
Senior House Officers			

Multidisciplinary Team:			
Neurology nurses	0		
Liaison nurses			Available

Physiotherapy			Christine Neugebauer Marlies Klingesberger Constanze Janetschko Elisabeth Ringer-Neumann Petra Vagacs Petra Schreiberhuber Elfriede Kalupsky
Occupational therapy			Isolde Penn Astrid Fridrich Maria Ehlacher Julia Gmeinböck Alexandra Wieser Tamara Tesar
Speech and language therapy			Gertraud Erlacher Gertraud Fendler Ingrid Barth Karin Bodingbauer Eva Huber Sylvia Seilinger
Social Worker	0		
Psychologists (clinical)	3	Elisabeth Kuhn Regina Anderl Christian Zniva	
Psychologists (neuropsychologists)	0		
Adult Neurologists involved in training programme	1		Norbert Albrecht
Child and Adolescent psychiatrists involved in training programme			Eva Ziebermayr Adrian Kamper

Neuro-ophthalmologists			Barbara Neudorfer Magdalena Geiblinger Liselotte Keintzel
------------------------	--	--	---

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per week:	Daily mixed 60 hours/week
Number of outpatient consultations in paediatric neurology per year:	2048 (including paediatric neurology and neurodisability)
Number of new paediatric neurology outpatient consultations per year:	ca 90
Number of outpatients who are GP referrals:	ca 1000 (including paediatric neurology and neurodisability) ca 30 new paediatric neurology
Number of outpatients who are tertiary referrals:	ca 800 (including paediatric neurology and neurodisability) referred by paediatricians ca 55 new paediatric neurology
Number and type of specialist clinics per month (eg epilepsy, muscle, neuro-oncology etc):	Daily mixed In addition: Headache 2 Epilepsy 4 Neuropathies 0,5 (every second month)
Number of peripartetic clinics per month:	1 Grieskirchen Hospital 3 Institut Hartheim 1 Wilhering
Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine):	Neuro-ophthalmology 20 cases/year Neuro-endocrine 10 cases/year Neuro-orthopaedia every second month (7 hours) Neuro - hearing impairment 1 hour / week
Number of neurodisability clinics per week:	Daily mixed clinics with paediatric neurology
Number of paediatric neurodisability consultations per year:	ca 1600

ACTIVITY DATA: INPATIENTS

Number of paediatric neurology inpatients per year:	200
Number of paediatric neurology day cases per year:	100
Number of paediatric neurology PITU patients per year:	0
Number and source of other consultation requests per year:	
• PITU	0
• Neonatal unit	10
• Cardiology	0
• Psychiatry	0
• Other (please specify)	
<i>PROXIES FOR UNIT ACTIVITY</i>	
<i>New epilepsy cases seen each year:</i>	15
<i>New brain tumour cases each year:</i>	2
<i>New Duchenne cases seen each year:</i>	0,3
<i>Other:</i>	
New Neuropathies seen each year	10
New SMA	1-2
New MD	0,5

4. VIENNA

European Training Advisory Board

Pre-visit Data Sheet

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

Centre –name: G v. Preyer’sches Kinderspital, SMZ-Ost, Vienna

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology
Paediatric Neurologists	3	G. Bernert, MD J. Geldner, MD A. Eng-Schwartz, MD	Part-time Full-time Part-time
Consultants in Neurodisability	4	G. Bernert J. Geldner F. Grill R. Csepan	Part-time Part-time Part-time Part-time
Paediatric Neurosurgeons	2	T. Czech A. Reinprecht	Part-time
Neuroradiologists	3	B. Horvath-Mechtler Krammer D. Prayer	Part-time Part-time Part-time
Neurophysiologists (EEG)	4	J. Geldner A. Eng-Schwartz, MD M. Lausecker U. Kneitschel	Part-time Part-time Part-time Part-time

Neurophysiologists (CFM, Sleep polygraphy)		A. Eng-Schwartz S. Weiss	Part-time Part-time
--	--	-----------------------------	------------------------

Paediatric Neurology and Neurodisability Trainee grades:			
SpRs in general paediatrics with an interest in neurology		M. Kolmer S. Faber M. Lausecker	
SpRs in tertiary in neurodisability		M. Kolmer	
Lecturers		G. Bernert	
Research posts			
Other Career Grades			
Senior House Officers			

Multidisciplinary Team:			
Neurology nurses		12	Full-time
Liaison nurses			

Physiotherapy		8	Full-time
Occupational therapy		2	Full-time
Speech and language therapy		2	Full-time
Social Worker		1	Full-time
Psychologists (clinical)		2	Full-time
Psychologists (neuropsychologists)		2	Part-time
Adult Neurologists involved in training programme			
Child and Adolescent psychiatrists involved in training programme		R. Goessler (Department Child a. Adolescent Psychiatry)	

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per week:	10/week
Number of outpatient consultations in paediatric neurology per year:	around 4000
Number of new paediatric neurology outpatient consultations per year:	800/a
Number of outpatients who are GP referrals:	800/a
Number of outpatients who are tertiary	200/a

referrals:	
Number and type of specialist clinics per month (eg epilepsy, muscle, neuro-oncology etc):	Epilepsy 16/m CP / Movement Disorders 4/m Developmental Follow-up 8/m Neuromuscular 4/m Neurometabolic 2/m
Number of peripatetic clinics per month:	?
Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine):	Neuropaediatric-neuroorthopaedic 1/week
Number of neurodisability clinics per week:	6/week
Number of paediatric neurodisability consultations per year:	10/week

ACTIVITY DATA: INPATIENTS

Number of paediatric neurology inpatients per year:	600
Number of paediatric neurology day cases per year:	12/week
Number of paediatric neurology PITU patients per year:	0
Number and source of other consultation requests per year:	
• PITU	0
• Neonatal unit	150
• Cardiology	50
• Psychiatry	50
• Other (please specify)	

PROXIES FOR UNIT ACTIVITY	
<i>New epilepsy cases seen each year:</i>	70
<i>New brain tumour cases each year:</i>	10
<i>New Duchenne cases seen each year:</i>	8
CP Neurometabolic MS/ADEM/GBS	100/y 15/y 10/y

European Training Advisory Board

Pre-visit Data Sheet

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

Centre –name:

Medical University of Vienna

Dept. of Pediatrics and Adolescent Medicine

Head: [O. Univ. Prof. Dr. Arnold Pollak](#)

Division of Paediatric Neonatology, Intensive Care and Neuropaediatrics

Klinische Abteilung für Neonatologie, pädiatrische Intensivmedizin und Neuropädiatrie

Head: **O. Univ. Prof. Dr. Arnold Pollak**

Subdivisions:

Neonatology: Weninger M

Intensive Care: Trittenwein G

Neurooncology: Slavic I

Epilepsy Service and EEG Laboratory: Feucht M

Neuropediatrics: Seidl R

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology
Paediatric Neurologists	3	Feucht M, Freilinger M, Seidl R	fulltime
(Neuro)Neonatologists	2	Weninger M, Klebermass K Feucht M, Weninger M, Seidl R	fulltime
Prenatal Consultants	2	Slavic I, Peyrl A	Fulltime
Neurooncologists	2		Fulltime
Consultants in Neurodisability	2	Paternostro-Sluga T Herceg M	Dept. of Physical Medicine
Paediatric Neurosurgeons	3	Czech T, Reinprecht A, Novak K	fulltime
Neuroradiologists	3	Prayer D, Schmook M, Kasprian G	fulltime
Neurophysiologists (EEG)	7	Feucht M, Trittenwein G, Freilinger M, Katzensteiner A, Dressler A, Reiter E, Pahs G	fulltime
Neurophysiologists (EMG)	1	Feucht M	

Paediatric Neurology and Neurodisability Trainee grades:			
SpRs in general paediatrics with an interest in neurology	6 3 2	Neuro-Oncology: Huebner M, Azizi A, Gruber-Olipitz M, Heinrich M, Reismueller B, Prucker C Epilepsy: Katzensteiner S, Dressler A, Pahs G Neuropediatrics: Lanator I, Reiter E	
SpRs in tertiary in neurodisability	0		
Lecturers	11	Medical University of Vienna	
Research posts	5	Mühlebner M, Mörzinger M, Huebner M, Prucker C, Madlener S.	
Other Career Grades	0		
Senior House Officers	0		

Multidisciplinary Team:			
Neurology nurses	E9 MTA (EMU)	15 10	fulltime
Liaison nurses	3	Neurooncology	fulltime

Physiotherapy	7	Epilepsy, Neurooncology, Neuropediatrics: Möstl S, Damm K, Truschnig E, Bosek B, Kutzeroff M, Retschitzegger I, Rajchl L	fulltime
Occupational therapy	2	Höller R, Nuhsbaumer K.	fulltime
Speech and language therapy	2	Reinisch R, Pröll S	
Social Worker	1	Voit R	
Psychologists (clinical)	3	Porsche B Leiss U Schwarzinger S Pletschko T Novak A	
Psychologists (neuropsychologists)	2	Leiss U Porsche B Novak A	
Adult Neurologists involved in training programme	2	Katzensteiner S Gröppel G	
Child and Adolescent psychiatrists involved in training programme	5	Hackenberg B Klier C Feucht M Freilinger M Seidl R	
Other	0		

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per	Neurooncology: 5 (Mo-Fr) Epilepsy: 5 (Mo-Fr)
--	---

week:	Neuropediatrics 4 (Tue-Th)
Number of outpatient consultations in paediatric neurology per year:	Will be given separately
Number of new paediatric neurology outpatient consultations per year:	<i>New Patients per</i> Neuropediatrics: (excluded inpatients) Epilepsy: 150-200 Neurooncology: 50
Number of outpatients who are GP referrals:	GP/Pediatricians 30%
Number of outpatients who are tertiary referrals:	70%
Number and type of specialist clinics per month (eg epilepsy, muscle, neuro-oncology etc):	Epilepsy 5/Week Neurooncology 5/Week Neuropediatrics 3/Week Muscle 1/Week Emergency Room 5/Week
Number of peripartetic clinics per month:	
Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine):	Epilepsy surgery (1/months) Neurooncology-Neurosurgery (weekly) Plexus-Group (1/months) Neurometabolics (2/months) Neuroradiology (2/months)
Number of neurodisability clinics per week:	0
Number of paediatric neurodisability consultations per year:	0

ACTIVITY DATA: INPATIENTS

Will be given separately for each subdivision

Number of paediatric neurology inpatients per year:	
Number of paediatric neurology day cases per year:	
Number of paediatric neurology PITU patients per year:	
Number and source of other consultation requests per year: • PITU	2/week

<ul style="list-style-type: none"> • Neonatal unit 	3-5/week
<ul style="list-style-type: none"> • Cardiology 	5/week
<ul style="list-style-type: none"> • Psychiatry 	2/week
<ul style="list-style-type: none"> • Other (please specify) • Medical University of Vienna 	Paediatric Pulmology, Allergology and Endocrinology, Paediatric Nephrology/Gastroenterology, Pediatric Metabolic Diseases and Genetics, Orthopaedics, Ophthalmology, Obstetrics and Gynecology, Dermatology, Neurosurgery, Otolaryngology-ENT, Pediatric Surgery, Traumatology, Cranio-Maxillofacial and Oral Surgery, Child and Adolescent Psychiatry, Physical Medicine and Rehabilitation, Urology
<i>PROXIES FOR UNIT ACTIVITY</i>	
<i>New epilepsy cases seen each year:</i>	150
<i>New brain tumour cases each year:</i>	50
<i>New Duchenne cases seen each year:</i>	5
<i>Other:</i>	MS/ADEM 30 GBS 5

European Training Advisory Board

Pre-visit Data Sheet

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

Centre –name: St Anna Hospital, Vienna

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology
Paediatric Neurologists	1	OÄ Dr. Birgit Neophytou	
Consultants in Neurodisability	1	OÄ Dr. Birgit Neophytou	
Paediatric Neurosurgeons			
Neuroradiologists			
Neurophysiologists (EEG)		OÄ Dr. Birgit Neophytou	
Neurophysiologists (EMG)			

Paediatric Neurology and Neurodisability Trainee grades:

SpRs in general paediatrics with an interest in neurology		Dr. Preisel MartinFr	
---	--	----------------------	--

SpRs in tertiary in neurodisability			
Lecturers			
Research posts			
Other Career Grades			
Senior House Officers			

Multidisciplinary Team:			
Neurology nurses	1	Mrs. Maria Böhm	
Liaison nurses			
Physiotherapy	2	Mrs. Sigmund Mrs.Leder	
Occupational therapy			
Speech and language therapy	1	Mrs. Witz	

Social Worker	0		
Psychologists (clinical)			
Psychologists (neuropsychologists)	1	Mrs. Mag. Kowarik	
Adult Neurologists involved in training programme			
Child and Adolescent psychiatrists involved in training programme	1	Dr. Steinberger	
Other			

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per week:	50 / week
Number of outpatient consultations in paediatric neurology per year:	1990 / 2009
Number of new paediatric neurology outpatient consultations per year:	Nearly 200 / year (06.09 – 06.10)
Number of outpatients who are GP referrals:	none
Number of outpatients who are tertiary referrals:	1-2 / year

Number and type of specialist clinics per month (eg epilepsy, muscle, neuro-oncology etc):	About 40 epilepsy/ oct 2009 12 neurooncology / oct. 2009 30 developmental delayed / oct. 09 4-8 learning problems/ ADH /oct. 09
Number of peripartetic clinics per month:	about 3-4- / month
Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine:	
Number of neurodisability clinics per week:	about 4 / week
Number of paediatric neurodisability consultations per year:	about 200 / year

ACTIVITY DATA: INPATIENTS

Number of paediatric neurology inpatients per year:	About 210 / 2009
Number of paediatric neurology day cases per year:	About 1-2 / day
Number of paediatric neurology PITU patients per year:	?
Number and source of other consultation requests per year:	
• PITU	
• Neonatal unit	
• Cardiology	
• Psychiatry	
• Other (please specify)	About 85 oncology

PROXIES FOR UNIT ACTIVITY	
New epilepsy cases seen each year:	10 - 12 / 2009
New brain tumour cases each year:	1-3
New Duchenne cases seen each year:	0-1
Other:	

European Training Advisory Board

Pre-visit Data Sheet

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

Centre –name: Landeslinik für Kinder- und Jugendheilkunde Salzburg

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology
Paediatric Neurologists	3	Dr. Christian Rauscher Dr. Johannes Koch Dr. Erentraud Imberger	Part-time Part-time Part-time

Consultants in Neurodisability	3	Dr. Christian Rauscher Dr. Johannes Koch Dr. Erentraud Imberger	Part-time Part-time Part-time
Paediatric Neurosurgeons	2	Univ.Prof. Dr. Richling Bernd (Salzburg) Univ.Prof Dr. Thomas Czech (Wien)	Part-time Part-time
Neuroradiologists	2	Privatdozentin Dr. Rosemarie Forstner Dr. Heimo Nemec	Part-time Part-time
Neurophysiologists (EEG)		Dr. Christian Rauscher Dr. Johannes Koch (Sr. Irene) (Sr. Ulrike)	Part-time Part-time Part-time Part-time
Neurophysiologists (NLG, VEP, SSEP, AEP)		Dr. Johannes Koch (Sr. Irene)	Part-time Part-time

Paediatric Neurology and Neurodisability Trainee grades:			
SpRs in general paediatrics with an interest in neurology	1	Dr. Ingrid Maxonus	Part-time
SpRs in tertiary in neurodisability	1	Dr. Ingrid Maxonus	Part-time
Lecturers		Univ.Prof. Dr. Wolfgang Sperl (neurometabolics) Univ.Doiz. Dr. Olaf Rittinger (neurogenetics) Dr. Christian Rauscher Dr. Johannes Koch	
Research posts		Dr. Johannes Mayr Dr. Rene Feichtinger Mag.Zimmermann Franz	
Other Career Grades			

Senior House Officers			
-----------------------	--	--	--

Multidisciplinary Team:			
Neurology nurses			
Liaison nurses			
Physiotherapy	600%	Eva Geisler Monika Göschl Ernestine Herndler Michaela Jahn Simone Kelbert Dr. Eva Preissler Elke Tiefenthaler Johanna Wechselberger Dina Therese Zottl	
Occupational therapy	237,5%	Andrea Oswald Eva-Maria Schernthaner Astrid Steger Maria Wolf	
Speech and language therapy	187,5%	Susanne Kreuzhuber Maria Reiter	
Social Worker		Ulli Zeiler	Part-time
Psychologists (clinical)		Dr. Inghwio aus der Schmitten	Part-time
Psychologists (neuropsychologists)		Mag. Dvorzak Anja	Part-time

Adult Neurologists involved in training programme		Prof. Dr. Eugen Trinka	
Child and Adolescent psychiatrists involved in training programme		Dr. Adrian Kamper	
Other Laboratory for mitochondrial disease		Dr. Mayr Johannes Dr. Rene Feichtinger Mag. Zimmermann Franz Doz. Dr. Barbara Kofler	

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per week:	10/week
Number of outpatient consultations in paediatric neurology per year:	around 2000
Number of new paediatric neurology outpatient consultations per year:	300
Number of outpatients who are GP referrals:	
Number of outpatients who are tertiary referrals:	
Number and type of specialist clinics per month (eg epilepsy, muscle, neuro-oncology etc):	neurometabolic 4/month all others mixed
Number of peripartetic clinics per month:	?

Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine):	neuropaediatric-neuroorthopaedic 2/month
Number of neurodisability clinics per week:	mixed
Number of paediatric neurodisability consultations per year:	400

ACTIVITY DATA: INPATIENTS

Number of paediatric neurology inpatients per year:	450-500
Number of paediatric neurology day cases per year:	150-200
Number of paediatric neurology PITU patients per year:	
Number and source of other consultation requests per year:	
• PITU	50
• Neonatal unit	25-50
• Cardiology	5-10
• Psychiatry	10
• Other (please specify)	

PROXIES FOR UNIT ACTIVITY	
New epilepsy cases seen each year:	40-50
New brain tumour cases each year:	5-10
New Duchenne cases seen each year:	1-3
Other:	metabolic diseases: 10-20/year MS/ADEM/GBS: 5-10/year

5. VILLACH

European Training Advisory Board

Pre-visit Data Sheet

Please fill in one of these sheets for each participating training centre. If data are not readily available, please do not worry. We do not want you to spend too much time on this task. However, where data are not available some sort of explanatory description or approximation would be helpful to allow the visiting team to form a picture of service delivery models.

**Centre name: LKH Villach, Kinderabteilung
A9500 Villach, Landeskrankenhaus
Bereich Neuropädiatrie/KinderJugendPsychatrie**

GENERAL INFORMATION: STAFFING

(Please include numbers, names and sessional commitment to Paediatric Neurology)

	Number	Names	Sessional Commitment to Paediatric Neurology

Paediatric Neurologists	3	DrKlaus Kaltenbrunner DrBarbara Eichwalder DrChristian Liechtenstein	
Consultants in Neurodisability		DrW Strobl,Neurorthop.,Wien	
Paediatric Neurosurgeons		NeuroChir.LKH Klagenfurt	
Neuroradiologists		ZRI d LKH Villach	
Neurophysiologists (EEG)		EEG Auswertung: selber EEG Labor: Neuro.LKH Vill.	
Neurophysiologists (EMG)		Neuro,LKH Villach	

Paediatric Neurology and Neurodisability Trainee grades:			
SpRs in general paediatrics with an interest in neurology		PrimariusProf.DrBirnbacher DrUlrike Frühwald DrThomas Reiter DrHansMartin Beer	
SpRs in tertiary in neurodisability			
Lecturers			
Research posts			

Other Career Grades			
Senior House Officers			

Multidisciplinary Team:			
Neurology nurses			
Liaison nurses		Pädiatrische DKS	
Physiotherapy		Teilstelle d. KinderAbteilung	
Occupational therapy			
Speech and language therapy		Teilstelle d.KinderAbteilung.	
Social Worker		Jugendämter und teilweise im. LKH Villach	
Psychologists (clinical)	3	3 Kinderpsychologen der KinderAbteilung	
Psychologists (neuropsychologists)			

Adult Neurologists involved in training programme		Fachabteilung d.LKH Villach	
Child and Adolescent psychiatrists involved in training programme		Siehe obige 2 Listen!!! (zugleich Fachbereich Neuropädiatrie u Kinderpsychiatrie in der Kinderabteilung)	
Other			

ACTIVITY DATA: OUTPATIENTS

Number of paediatric neurology clinics per week:	Ca.40
Number of outpatient consultations in paediatric neurology per year:	Ca 1500-2000
Number of new paediatric neurology outpatient consultations per year:	Ca 500
Number of outpatients who are GP referrals:	
Number of outpatients who are tertiary referrals:	
Number and type of specialist clinics per month (eg epilepsy, muscle, neuro-oncology etc):	zB Epilepsie: 50-100
Number of peripatetic clinics per month:	

Number and type of combined clinics per month (eg neuro-ophthalmology, neuro-endocrine:	
Number of neurodisability clinics per week:	Ca 20
Number of paediatric neurodisability consultations per year:	Ca 500-(1000)

ACTIVITY DATA: INPATIENTS

Number of paediatric neurology inpatients per year:	Ca.300-(500)
Number of paediatric neurology day cases per year:	
Number of paediatric neurology PITU patients per year:	Ca 50-(100)
Number and source of other consultation requests per year:	
<ul style="list-style-type: none"> • PITU 	
<ul style="list-style-type: none"> • Neonatal unit 	Ca 25-50
<ul style="list-style-type: none"> • Cardiology 	
<ul style="list-style-type: none"> • Psychiatry 	Ca 200
<ul style="list-style-type: none"> • Other (please specify) 	zB Entwicklungsdiagnostik Krampfanfallsverdacht, Bewegungsstörungen,Lähmungen, Kopfschmerzen Je ca 100 Pat/Jahr

PROXIES FOR UNIT ACTIVITY	
<i>New epilepsy cases seen each year:</i>	Ca 20-40
<i>New brain tumour cases each year:</i>	
<i>New Duchenne cases seen each year:</i>	
<i>Other:</i>	