



Success of the European Epilepsy Brain Bank

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The story of EEBB ...

- EEBB was founded in 2006 under the direction of FP6 (EPICURE consortium GA#37315)
- EEBB was build as *virtual database* collecting a minimal dataset for histopathology, age, age@onset, duration, age@surgery, location, side, sex
- EEBB evolved into a biorespository for under the direction of FP7 (DESIRE c
- Today, EEBB has collected more than 9523 published in 2017 (NEJM)

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Histopathological Findings in Brain Tissue
Obtained during Epilepsy Surgery

I. Blumcke, R. Spreafico, G. Haaker, R. Coras, K. Kobow, C.G. Bien, M. Pfäfflin, C. Elger, G. Widman, J. Schramm, A. Becker, K.P. Braun, F. Leijten, J.C. Baayen, E. Aronica, F. Chassoux, H. Hamer, H. Stefan, K. Rössler, M. Thom, M.C. Walker, S.M. Sisodiya, J.S. Duncan, A.W. McEvoy, T. Pieper, H. Holthausen, M. Kudernatsch, H.J. Meencke, P. Kahane, A. Schulze-Bonhage, J. Zentner, D.H. Heiland, H. Urbach, B.J. Steinhoff, T. Bast, L. Tassi, G. Lo Russo, C. Özkara, B. Oz, P. Krsek, S. Vogelgesang, U. Runge, H. Lerche, Y. Weber, M. Honavar, J. Pimentel, A. Arzimanoglou, A. Ulate-Campos, S. Noachtar, E. Hartl, O. Schijns, R. Guerrini, C. Barba, T.S. Jacques, J.H. Cross, M. Feucht, A. Mühlebner, T. Grunwald, E. Trinka, P.A. Winkler, A. Gil-Nagel, R. Toledano Delgado, T. Mayer, M. Lutz, B. Zountsas, K. Garganis, F. Rosenow, A. Hermsen, T.J. von Oertzen, T.L. Diepgen, and G. Avanzini, [for the EEBB Consortium*](#)

2013

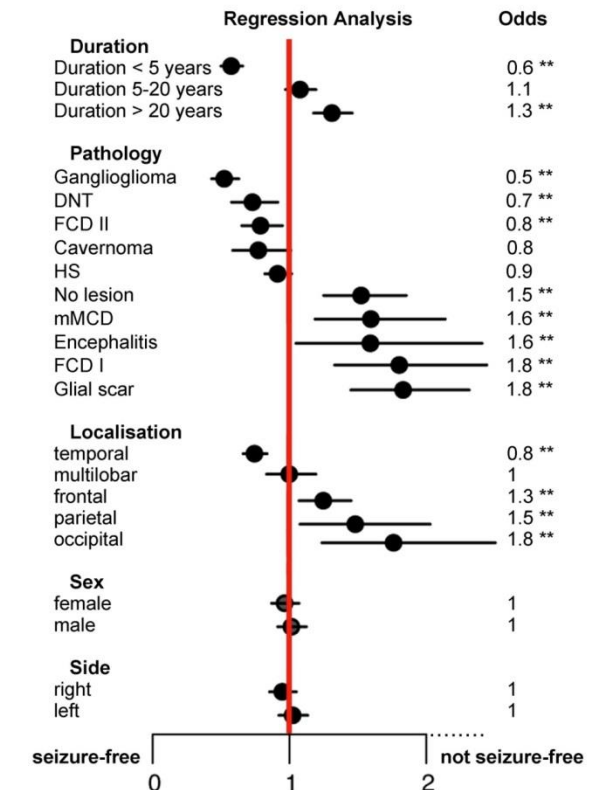
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EEBB - Results

	Major etiological disease categories	All Cases		Onset	Duration	ILAE 1 (12 M)
1.	Hippocampal Sclerosis	3463	36.4%	11.3	22.5	61.4 %
2.	Tumors	2244	23.6%	15.1	11.4	68.4 %
3.	Malformations	1888	19.8%	6.2	12.2	57.6 %
4.	No Lesion	738	7.7%	13	15.4	50.2 %
5.	Vascular Malformation	581	6.1%	22.2	12.3	64.8 %
6.	Glial Scars	464	4.9%	10.6	14.8	46.9 %
7.	Encephalitis	145	1.5%	10.1	7.8	50 %
	TOTAL	9523		11.9	16	60.7%*

EEBB 2.0 on outcome



The bottlenecks ...

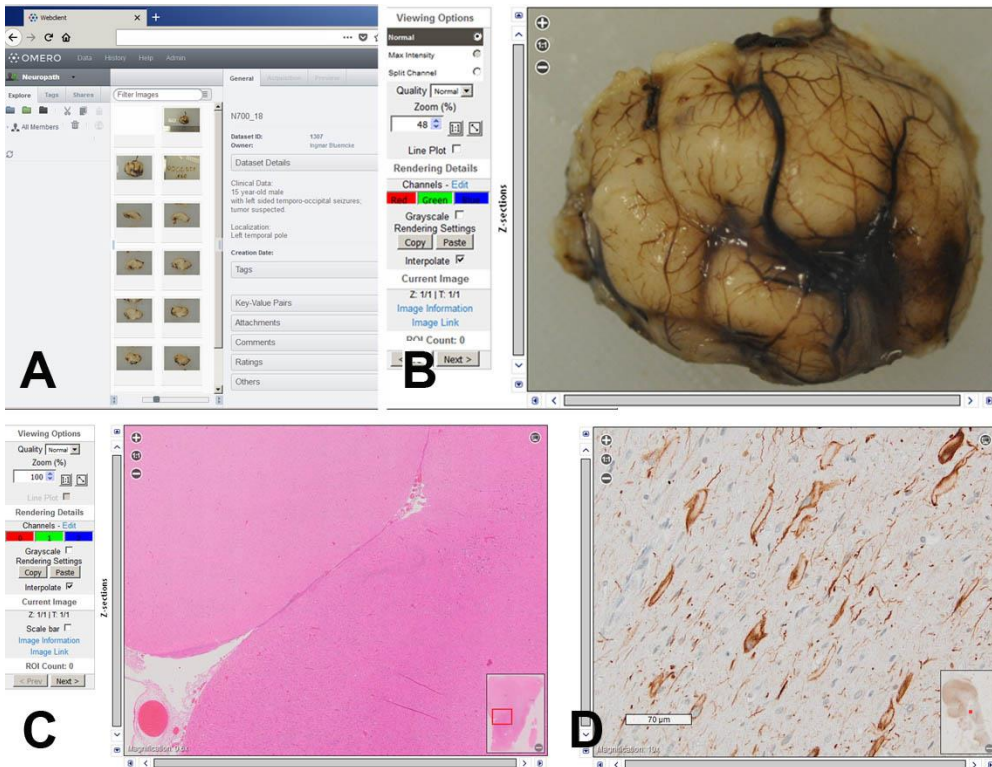
- Definition of the minimal data set
- Data safety and review (audit)
- Ethical approval for local or central tissue/data storage



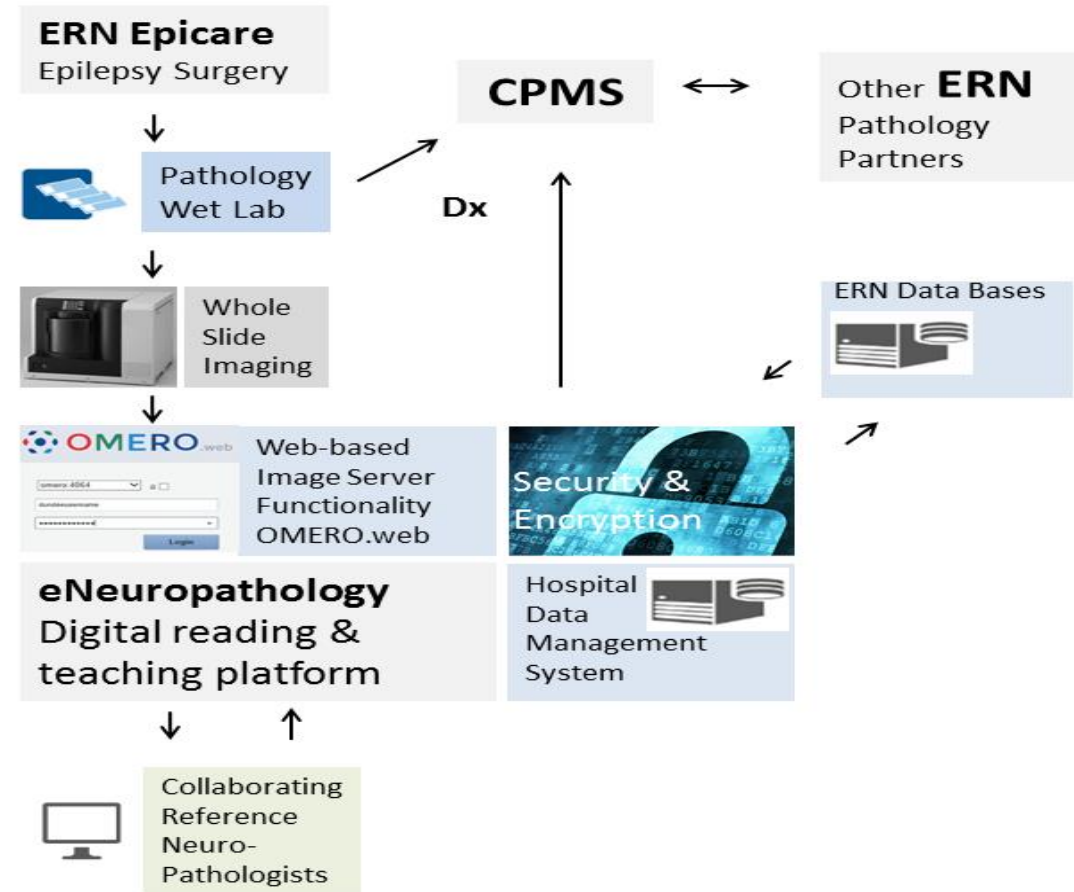
The future...

- Access to large enough funding to explore disease-causing somatic pathogens
- Develop an integrated clinico-pathology and genetic disease classification (WHO)
- Introduce digital microscopy solutions to provide reference pathology diagnosis across Europe (EpiCare)
- Connect to ERN database to secure maintenance and allow interdisciplinary access
- myCloud (patient-based) consent for data storage and retrieval

EPICARE WP6 „eNeuropathology“



Kölble et al., submitted



Thank you !

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