Reading neonatal EEG is a challenge for general neurologists. It requires understanding not only the general principles of EEG interpretation but also the age-dependent brain development unique to the neonatal period.

«Atlas of Neonatal Electroencephalography, Fourth Edition» is well written by Eli M. Mizrahi MD, and Richard A. Hrachovy MD, who are experts in this field. This book is not intended to be a textbook but it is essential for reading neonatal EEG. It is organized into seven chapters. The first chapter is an overview of how to approach visual analysis and interpretation neonatal EEG. The second chapter dissects issues of techniques of recording such as general principles, personnel requirements, data collection, infant preparation, instruments and recording protocols including EEG video monitoring. The third chapter narrates common artifacts in neonatal EEG with figures and legends to demonstrate recording instrumentation-patient interface and non-cerebral physiological potentials. The fourth chapter depicts elements of the normal neonatal EEG displacing visual analysis and interpretation of the conceptional age-dependent features characteristic of specific epochs of development, which stands as one of the core parts of the book. The fifth chapter presents patterns of uncertain diagnostic significance on focal EEG abnormalities. The sixth chapter is enriched in figures of EEG abnormality of premature and full-term neonates with either diffuse abnormalities or the patterns that may be focal or generalized. The last chapter shows neonatal seizures of their EEG and clinical features. The minor drawbacks are that some figures recorded from analog-derived pen-and-ink may need to be replaced and updated by digital EEGs, although these recordings are still truly instructive.

This book has been incorporated with available information and current guidelines, and presents a comprehensive view available for professionals including trainees, technologists and experienced neurologists related to neonatal EEG and epilepsy. I believe this book will be a very useful reference for epileptologists meeting their clinical needs concerning the interpretation of neonatal EEG.

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