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Best ekg book for medical students

Students and professionals in the field of medicine frequently ask which ECG book is the best one. This is a justified question for several reasons: (1) ECG interpretation is rather complicated; (2) being able to interpret the ECG may save lives and (3) time and money are usually limited. Searching for the ultimate ECG book is something most physicians, nurses, assistant physicians, assistant nurses, paramedics, biomedical analysts, and other professionals find themselves doing at some point. Obviously there is also an abundance of online resources on ECG interpretation. The quality of these varies substantially. Below follows a review of the most popular ECG books and online resources. This review was compiled by Dr Araz Rawshani who is a cardiovascular researcher at the University of Gothenburg, Sweden. Dr Rawshani is the author of the online ECG book and course at ecgwaves.com, which can be recommended to anyone interested in ECG interpretation. The course contains a complete ECG book (spanning over 500 pages), video lectures, tests, and other study tools. ecgwaves.com was developed to provide an ECG book that covers all aspects of clinical ECG interpretation, from physiology to evidence-based management via ECG criteria. ecgwaves.com was designed to suit all readers, regardless of background and previous training. Review of the most popular ECG books and resources We recognize that some readers are interested in other books and online resources, which is why we have compiled a comprehensive review. We have actually plowed through more than 60 of the most popular (according to Amazon and Google) ECG books. A number of online resources are also reviewed. Our recommendations below are based on how well each book/website have covered the following aspects: Physiology (particularly cardiac electrophysiology)Pathophysiology (causes and mechanisms underlying various conditions diagnosed using ECG)EpidemiologyClinical aspectsECG criteria/characteristicsElectrophysiological explanations for ECG changesDifferential diagnoses for ECG findingsConcordance with guidelines (AHA, ACC, ESC)Evidence-based management/treatment. These 9 aspects are all necessary to become confident in ECG interpretation and making clinical decisions using the ECG. Interestingly, none of the books I've read so far include all these aspects. Most books lack clinical management. Some books have left out differential diagnostics, which is fundamental to ECG interpretation and others fail to convey clinical implications. The best ECG books and the most frequently recommended ECG books Rapid Interpretation of EKG's, Sixth Revised Edition. By Dale Dubin I read this book as a medical student since it was recommended by our course-leader in cardiology. It is often marketed as being the easiest book in the field, and readers are apparently appealed by that. I initially thought it was a decent book with an abundance of illustrations which appeared pedagogical, despite the fact that it had not been updated for decades. As I got more involved with cardiovascular research and dug deeper into electrocardiology and ECG interpretation, I realized that this book was at best poor. It is outdated, it oversimplifies the concepts and basically lacks everything you need for clinical purposes. Regrettably, I cannot recommend this book, despite it being the most sold book on Amazon. This is simply because it has simplified ECG interpretation beyond what is reasonable and clinically sound. ECG interpretation is not easy and any book that portrays it as such has simply failed. Perhaps this book can be recommended to laymen who are interested in the subject. Not recommended Perhaps suitable for laymen. Not for students or professionals in any area. The Only EKG Book You'll Ever Need by Malcolm S. Thaler. This book is slightly better than Dale Dubin's book. It will suffice for students (medical school, nursing, paramedics etc) but not for clinical situations. The author has a clear and fun way of presenting the topics and most topics are covered, albeit oversimplified and occasionally flawed. Differential diagnostics is blatantly missing, as is treatment and management. The ischemia chapter is quite poor. To conclude, this book will suffice if you want to pass an exam in school but it will not meet the demands of clinical duty unless you combine it with other resources. Not recommended Many topics are covered, although superficially explained. Not sufficient for clinical work as it leaves out key aspects of diagnosis and management. Marriott's Practical Electrocardiography by Galen S. Wagner. The late professor Galen Wagner has written, according to my personal opinion, one of the best books on ECG interpretation, namely this one. Professor Wagner was an authority in electrocardiology and produced hundreds of research papers in the field. This book is concise yet comprehensive (and affordable). This is probably the one I would recommend the most. It does not require any prior knowledge (but you are guaranteed to acquire state of the art knowledge). It is suitable for students and professionals of all categories. Excellent choice. One of the best books on ECG interpretation. All chapters are superb. Does not include clinical management/treatment (beyond general aspects). Clinical Electrocardiography: A Simplified Approach by Ary L. Goldberger. One of the best books available. One of the best books on ECG interpretation. Does not include clinical management/treatment. Chou's Electrocardiography in Clinical Practice by Borys Surawicz & Timothy Knilans. This is slightly more advanced than Galen Wagner's book. It can definitely be recommended to professionals who are interested in ECG interpretation, particularly if details are appreciated. On the contrary to the majority of the books on this list, this one includes pediatric ECG interpretation. Great choice for professionals with a preference for details. Includes pediatric ECG interpretation. Great chapter on ischemia/infarction. Does not include clinical management/treatment (beyond general aspects). ECGs for the Emergency Physician 1, by Amal Mattu and William Brady The target audience of this superb book is emergency physicians with basic knowledge of ECG interpretation. It includes 200 clinical cases which are explained clearly. This book is highly recommended for emergency physicians. This book has a sequel that I, unfortunately, have not had the pleasure to read, but given Dr Amal's earlier work, it is most likely well-invested money. Great choice for emergency physicians. Straight forward, clinically oriented, clearly explained, details included. Less suitable outside target audience. Lacks treatment details. 12-Lead ECG: The Art of Interpretation 1st Edition by Garcia and Holtz This is a great book for students. Content is succinct and constructed in a stepwise fashion. Quality of ECGs is good and the layout is pedagogical. There are plenty of practice examples which are discussed in detail. The book is more detailed than Dubin's book but less detailed than Goldberger's and Wagner's. Hence, this is an intermediate book which is well suited for students. Most (but not all) topics are covered and they are simplified. There is perhaps a tendency for oversimplification. Great choice for students. Offers basic ECG interpretation skills. Lacks clinical management. Oversimplifies matters. Comprehensive Electrocardiology by P Macfarlane, P.W.; Oosterom, A. van; Pahlm, O.; Kligfield, P.; Janse, M.; Camm, J. (red). This book spans over 2400 pages. It is not suitable for students neither the vast majority of physicians. However, for those who are interested in electrocardiology - notably researchers - this is perhaps one of the best books available. It has left nothing out and it is written by the legends in the field of electrocardiology. Again, this book is intended for researchers. The most comprehensive opus in the field. Suitable for researchers. The Bible of electrocardiology. Does not include clinical management/treatment (beyond general aspects). Expensive (\$800). Clinical Arrhythmology and Electrophysiology: A Companion to Braunwald's Heart Disease by Zipes D et al. This is an outstanding book edited by professor Douglas Zipes who is one of the most prominent pediatric ECG interpretation. Great choice for professionals with a preference for details. Includes pediatric ECG interpretation. Great chapter on ischemia/infarction. Does not include clinical management/treatment (beyond general aspects). ECGs for the Emergency Physician 1, by Amal Mattu and William Brady The target audience of this superb book is emergency physicians with basic knowledge of ECG interpretation. It includes 200 clinical cases which are explained clearly. This book is highly recommended for emergency physicians. This book has a sequel that I, unfortunately, have not had the pleasure to read, but given Dr Amal's earlier work, it is most likely well-invested money. Great choice for emergency physicians. Straight forward, clinically oriented, clearly explained, details included. Less suitable outside target audience. Lacks treatment details. 12-Lead ECG: The Art of Interpretation 1st Edition by Garcia and Holtz This is a great book for students. 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The content and intended audience is the same as for professor Douglas Zipe's book. There are actually few differences between these books. Excellent choice for those interested in arrhythmology. Covers arrhythmology completely. Including evidence-based management. Does not cover other aspects of ECG interpretation. Expensive. Braunwald's Heart Disease by Peter Libby, Robert O. Bonow, Douglas L. Mann This book is rather brief on ECG interpretation. The chapters are written by Ary L Goldberger, Douglas Zipes et al. The arrhythmia chapters are better (personal opinion) than the other ECG chapters. However, this book discusses treatment and management in detail. A rather advanced crash course in ECG interpretation. Covers most topics. Includes management. Frequently too concise to cover the topics satisfactorily. Expensive. E-resources: ECG books, ECG tests, ECG practice examples Life in the Fast Lane - Australian site with one of the most impressive ECG libraries available. A must for anyone interested in ECG interpretation. Also includes vast amounts of clinically relevant discussions and articles in emergency medicine. AnaesthesiaUK - is a comprehensive e-resource and CME site for anesthesiologists. Site is maintained and updated actively, which means it deserves a bookmark if your into anasthesia or critical care medicine. Critical Care Reviews - Dr Rob Mac Sweeney's superb website which is a must for anyone interested in critical care medicine. Content is evidence based, comprehensive and qualitative. Dr Goldberger et al ECG Wave Maven - It is likely that this Dr Goldberger is related to the Dr Goldberger who invented the ECG leads aVR, aVL and aVF (unconfirmed). There is no doubt, however, that anyone interested in learning ECG interpretation should pay a visit to this maven (which is hebrew for "master"). ECG Wave Maven includes over 500 ECG cases, all interpreted by experts in electrocardiology. Dr Smith's ECG blog - This blog is one of the most comprehensive blogs in practical ECG interpretation. Taught by professor Smith, any reader is guaranteed to quickly acquire state of the art knowledge and practical training. Professor Smith published a book as well, which we've read and recommend to virtually anyone interested in ECG interpretation. Rebel EM - Rebel EM is a high-quality emergency medicine blog covering a myriad of topics, primarily focusing on evidence-based clinical topics, ECG cases, and high-yield exam review. This is one of few EM blogs with up-to-date research discussions. EMcrit - Superb website by Dr Scott Weingart. Frequently updated, evidence based, clinically oriented and just great. A must if your into emergency medicine. Broome docs - Dr Casey Parker's site covers a wide range of topics. The archive is loaded with great articles which physicians should be interested in. Updates occur frequently. Nuemblog - A residents blog with superb, and expanding, content. Beautifully presented and highly relevant for many of us. [list to be continued ...]

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