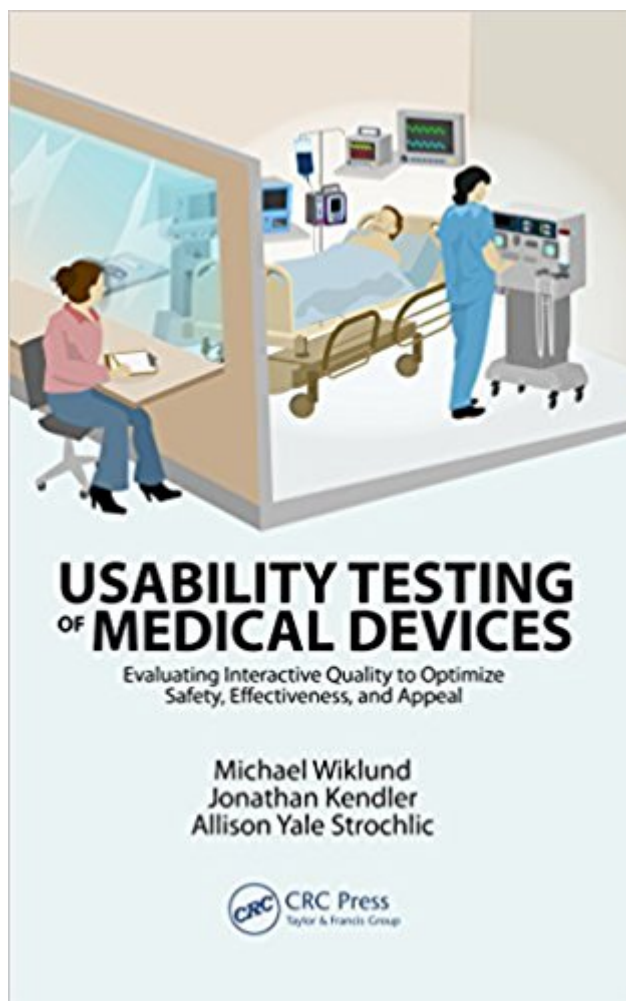


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# Usability Testing Of Medical Devices



## Synopsis

To paraphrase a popular saying, usability testing should be done early and often. However, it doesn't have to be an onerous process. Informative, practical, and engaging, *Usability Testing of Medical Devices* provides a simple, easy to implement general understanding of usability testing. It offers a general understanding of usability testing and reviews key concepts, highlighting the challenges of validating that protects against dangerous errors that could lead to patient injury and death. The book has been carefully designed to be concise and visually, easily read in one sitting or perused from one section to another as needed. It begins with a review of human factors engineering and how usability testing fits in, and then discusses the government regulations and industry standards that have motivated many medical device manufacturers to conduct usability tests. It then covers the nitty-gritty of planning, conducting, and reporting the results of a usability test, making the process as smooth and painless as possible for the development team, and therefore making the medical devices they develop as safe, effective, and appealing as possible. As you read the book, keep in mind that, like snowflakes, each usability test is unique. And while 100 usability specialists working independently might take 100 different approaches to testing, albeit with considerable methodological overlap, there would also be meaningful differences that the practitioners would energetically defend as the best given the circumstances. To make your testing process easier, the authors, seasoned human factors specialists who have conducted thousands of test sessions involving medical devices used by physicians, nurses, therapists, technicians, and patients, have painstakingly put together an informative, practical, and engaging handbook for conducting usability tests of medical devices.

## Book Information

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## Customer Reviews

I found the book concise and well thought out and exceeded my expectations and requirement for usability testing for IVD Medical Devices.

This book is excellent. Its provides great insights into the FDA approval process and gives comfort to the reader. Thank you very much for taking the time to put it all into words.

The book is well written and is straight to the point. The chapters and subsections are short and precise. If you are looking for a usability testing book focusing on the practical sides of testing I can highly recommend this book. As a recently graduated professional, it is refreshing to see a book that is experienced based rather than theory based. In essence, the book contains practical advice on how to plan and conduct a usability test. It covers a broad spectrum of things to consider and gives best practice advice on how to deal with these aspects. E.g. Sample size, test plans, how to convince others of the value of usability testing, testing costs etc. On the downside, some of the advice was rather obvious to me, but I guess this is the nature of "hands-on" guides that go into such detail as this book does. I would recommend this book to people who are either new to working with usability testing of medical devices under (FDA) regulations or new to usability testing in general. However if you are on the lookout for a book explaining usability theories or how to design a user interface give it a miss.

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