



Biomedical Technology

Tips & Techniques

BY : D. L. PANDYA

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Quite often, medical product manufacturers receive complaints of device malfunctions, serious injuries or deaths associated with medical devices. Manufacturers are also required to have additional postmarketing activities, postmarket surveillance for the monitoring of products after their clearance to market and device tracking for maintaining traceability of certain devices to the user level.

The book covers a wide range of devices from simplest infusion devices, endotracheal / tracheostomy tubes, leukocyte reduction filters, guide wires, dialysis filters, vascular haemostasis devices, blood coating devices to artificial heart . It also highlights important issues like safety of healthcare professionals, reuse of single-use devices, cross-contamination, allergies to use of latex, sterilization methods, dialysis procedure etc.

A special mention is made about why and how the Great Scientist and our Hon. President Dr APJ Abdul Kalam developed Orthosis Callipers weighing just 300 gms. “ The children didn’t believe their eyes. From dragging around a three kg. load on their legs, they could now move around ! Their parents had tears in their eyes”.

I am sure, readers would also enjoy and get enlightened by the quotes given on all the pages which speak volumes “**In A Nutshell**”.



Foreword

Biomedical Technology sector positions itself in a high value market place, but one where errors can be very expensive. Products are highly regulated and subjected to extensive quality controls.

I find here a treasure of tips and techniques put together in a very simplified and user friendly manner. Whether one is a teacher or a student of Biomedical Engineering / Technology or a manufacturer / marketer of medical devices or a medical professional using the technology day in and day out, dipping into this collection will give one valuable insight.

This book is written by a technocrat – an engineer with an academic inclination and compiled by him for an industry that he has been a part of for more than 25 years. This should be in every library and also in the personal possession of those who should know about handling of Biomedical Technology Products.

Dr R A Mashelkar
Director General

Council of Scientific & Industrial Research & Secretary, Government of India
Department of Science and Technology



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