



Manual of

I.V.

Therapeutics

Second Edition

Lynn Dianne Phillips

Manual of I.V. Therapeutics

2nd edition

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To the women who have enriched this passage of my life

My sister, Peggy

My daughter, Christa

My dear friends, Mary Van Mierlo, Leslie Baranowski, DiAne
Fischer, Darlynnne Giorgi, Laurie Scheall, and Hillary Cook

To my husband

Don, for his support and love

To my parents

Larry and Margie Schuetz

To all my students

This is for you.

PREFACE

I.V. related skills, according to an *American Journal of Nursing* 1991 survey, are performed by 85 percent of the nurses in the acute setting. During many years of educating nurses about techniques in I.V. therapy, I have heard this question asked over and over again: "Why don't we have more of this information in nursing school?" Another common question is, "Why doesn't our staff development department have more classes so that we can keep up our competency skills in I.V. related therapies?" Lack of time is the response. Using time as a valued resource, this manual can be used by student and novice nurses in the hospital or alternate setting where I.V. therapy skills are necessary, or as a resource for the expert practitioner.

My unsuccessful search for a self-paced comprehensive text for students and educators, along with my quest for a research book for practitioners, has resulted in the modular-experiential approach to learning I.V. therapy skills presented in this text. *Manual of I.V. Therapeutics* provides a text from which instruction builds from simple to complex, incorporating theory into clinical application. The skills of recall, nursing process, patient education, along with detailed summaries, provide the foundation to produce a knowledgeable practitioner. The psychomotor skills associated with I.V. therapy are presented in step by step procedures based on standards of practice. Competency criteria is presented at the end of each chapter detailing cognitive and performance criteria, with suggestions for evaluation of competency.

This book uniquely combines a workbook, text, and pocket guide. Each chapter in Units Two and Three has accompanying objectives, defined glossary terms, a pre-test and a post-test, worksheets, competency criteria and a critical thinking activity. Nursing process, in a table format, is presented at the end of each chapter with a strong emphasis on assessment and interventions. Included in this new edition is focus spots on home care issued and patient education. Standards of practice are emphasized using Occupation Safety and Health Administration (OSHA) guidelines and Centers for Disease Control and Prevention (CDC) 1995 revised standards for Intravascular Device-Related Infections.

This manual is divided into three units: Unit One lays the foundation for practice, Unit Two covers basic I.V. therapy, and Unit Three covers advanced practice. Unit One provides two chapters designed to introduce the reader to the legal responsibilities, risks, and steps of continuous quality assessment and competency criteria. The history includes past, present, and future trends that contribute to the changing clinical practice of I.V. therapy.

Unit Two provides the essential eight chapters for a foundation in I.V. therapy practice. This edition, besides the original seven chapters, has a new chapter on infection control. Unit Two emphasizes a modular approach covering fluid and electrolytes, parenteral solutions, equipment, techniques for peripheral venipuncture; complications, special needs of pediatric and geriatric populations, and infection control concepts.

Unit Three includes five chapters covering content specific to central line management, administration of medications, transfusion therapy, nutritional support with an additional new chapter on antineoplastic therapy.

The appendixes include reference charts for physical and chemical compatibility, normal reference laboratory values, and the guidelines for controlling occupational exposure to hazardous drugs and dilution rates for I.V. drugs. Due to the changing role of the Licensed Practical/Licensed Vocational Nurse (LPN/LVN), a list of states that have expanded the role of I.V. therapy in the LPN/LVN practice is provided.

I hope this new edition provides you, whether a practicing health care provider or nursing student, with valuable insight into the safe practice of I.V. therapy and a reference for this rapidly advancing field.

Lynn D. Phillips

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