

2 0 T H E D I T I O N

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# Remington: The Science and Practice of Pharmacy

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**Remington: The Science and Practice of Pharmacy . . .** *A treatise on the theory and practice of the pharmaceutical sciences, with essential information about pharmaceutical and medicinal agents; also, a guide to the professional responsibilities of the pharmacist as the drug information specialist of the health team . . . A textbook and reference work for pharmacists, physicians, and other practitioners of the pharmaceutical and medical sciences.*

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## Preface to the First Edition

The rapid and substantial progress made in Pharmacy within the last decade has created a necessity for a work treating of the improved apparatus, the revised processes, and the recently introduced preparations of the age.

The vast advances made in theoretical and applied chemistry and physics have much to do with the development of pharmaceutical science, and these have been reflected in all the revised editions of the Pharmacopoeias which have been recently published. When the author was elected in 1874 to the chair of Theory and Practice of Pharmacy in the Philadelphia College of Pharmacy, the outlines of study which had been so carefully prepared for the classes by his eminent predecessors, Professor William Proctor, Jr, and Professor Edward Parrish, were found to be not strictly in accord, either in their arrangement of the subjects or in their method of treatment. Desiring to preserve the distinctive characteristics of each, an effort was at once made to frame a system which should embody their valuable features, embrace new subjects, and still retain that harmony of plan and proper sequence which are absolutely essential to the success of any system.

The strictly alphabetical classification of subjects which is now universally adopted by pharmacopoeias and dispensaries, although admirable in works of reference, presents an effectual stumbling block to the acquisition of pharmaceutical knowledge through systematic study; the vast accumulation of facts collected under each head arranged lexically, they necessarily have no connection with one another, and thus the saving of labor effected by considering similar groups together, and the value of the association of kindred subjects, are lost to the student. In the method of grouping the subjects which is herein adopted, the constant aim has been to arrange the latter in such a manner that the reader shall be gradually led from the consideration of elementary subjects to those which involve more advanced knowledge, whilst the groups themselves are so placed as to follow one another in a natural sequence.

The work is divided into six parts. Part I is devoted to detailed descriptions of apparatus and definitions and comments on general pharmaceutical processes.

The Official Preparations alone are considered in Part II. Due weight and prominence are thus given to the Pharmacopoeia, the National authority, which is now so thoroughly recognized.

In order to suit the convenience of pharmacists who prefer to *weigh solids* and *measure liquids*, the official formulas are expressed, in addition to parts by weight, in *avoirdupois weight* and *apothecaries' measure*. These equivalents are printed in **bold**

*type* near the margin, and arranged so as to fit them for quick and accurate reference.

Part III treats of Inorganic Chemical Substances. Precedence is of course given to official preparation in these. The descriptions, solubilities, and tests for identity and impurities of each substance are systematically tabulated under its proper title. It is confidently believed that by this method of arrangement the valuable descriptive features of the Pharmacopoeia will be more prominently developed, ready reference facilitated, and close study of the details rendered easy. Each chemical operation is accompanied by equations, whilst the reaction is, in addition, explained in words.

The Carbon Compounds, or Organic Chemical Substances, are considered in Part IV. These are naturally grouped according to the physical and medical properties of their principal constituents, beginning with simple bodies like cellulose, gum, etc, and progressing to the most highly organized alkaloids, etc.

Part V is devoted to Extemporaneous Pharmacy. Care has been taken to treat of the practice which would be best adapted for the needs of the many pharmacists who conduct operations upon a moderate scale, rather than for those of the few who manage very large establishments. In this, as well as in other parts of the work, operations are illustrated which are conducted by manufacturing pharmacists.

Part VI contains a formulary of Pharmaceutical Preparations which have not been recognized by the Pharmacopoeia. The recipes selected are chiefly those which have been heretofore rather difficult of access to most pharmacists, yet such as are likely to be in request. Many private formulas are embraced in the collection; and such of the preparations of the old Pharmacopoeias as have not been included in the new edition, but are still in use, have been inserted.

In conclusion, the author ventures to express the hope that the work will prove an efficient help to the pharmaceutical student as well as to the pharmacist and the physician. Although the labor has been mainly performed amidst the harassing cares of active professional duties, and perfection is known to be unattainable, no pains have been spared to discover and correct errors and omissions in the text. The author's warmest acknowledgments, are tendered to Mr A B Taylor, Mr Joseph McCreery, and Mr George M Smith for their valuable assistance in revising the proof sheets, and to the latter especially for his work on the index. The outline illustrations, by Mr John Collins, were drawn either from the actual objects or from photographs taken by the author.

Philadelphia, October, 1885

J.P.R.

# Table of Contents

<b>Part 1 Orientation</b>			
1	Scope of Pharmacy	3	
2	Evolution of Pharmacy	7	
3	Ethics and Professionalism	19	
4	The Practice of Community Pharmacy	28	
5	Pharmacists in Industry	33	
6	Pharmacists in Government	38	
7	Pharmacists and Public Health	47	
8	Information Resources in Pharmacy and the Pharmaceutical Sciences	60	
9	Clinical Drug Literature	70	
10	Research	81	
<b>Part 2 Pharmaceutics</b>			
11	Pharmaceutical Calculations	91	
12	Statistics	124	
13	Molecular Structure, Properties, and States of Matter	159	
14	Complex Formation	183	
15	Thermodynamics	198	
16	Solutions and Phase Equilibria	208	
17	Ionic Solutions and Electrolytic Equilibria	227	
18	Tonicity, Osmoticity, Osmolality, and Osmolarity	246	
19	Chemical Kinetics	263	
20	Interfacial Phenomena	275	
21	Colloidal Dispersions	288	
22	Coarse Dispersions	316	
23	Rheology	335	
<b>Part 3 Pharmaceutical Chemistry</b>			
24	Inorganic Pharmaceutical Chemistry	359	
25	Organic Pharmaceutical Chemistry	385	
26	Natural Products	409	
27	Drug Nomenclature—United States Adopted Names	441	
28	Structure-Activity Relationship and Drug Design	458	
29	Fundamentals of Radionuclides	469	
<b>Part 4 Pharmaceutical Testing, Analysis and Control</b>			
30	Analysis of Medicinals	485	
31	Biological Testing	540	
32	Clinical Analysis	552	
33	Chromatography	587	
34	Instrumental Methods of Analysis	614	
35	Dissolution	654	
<b>Part 5 Pharmaceutical Manufacturing</b>			
36	Separation	669	
37	Powders	681	
38	Preformulation	700	
39	Solutions, Emulsions, Suspensions, and Extracts	721	
40	Sterilization	753	
41	Parenteral Preparations	780	
42	Intravenous Admixtures	807	
43	Ophthalmic Preparations	821	
44	Medicated Topicals	836	
45	Oral Solid Dosage Forms	858	
46	Coating of Pharmaceutical Dosage Forms	894	
47	Controlled-Release Drug-Delivery Systems	903	
48	The Introduction of New Drugs	930	
49	Biotechnology and Drugs	944	
50	Aerosols	963	
51	Quality Assurance and Control	980	
52	Stability of Pharmaceutical Products	986	
53	Bioavailability and Bioequivalency Testing	995	
54	Plastic Packaging Materials	1005	
55	Pharmaceutical Necessities	1015	
<b>Part 6 Pharmacodynamics</b>			
56	Diseases: Manifestations and Pathophysiology	1053	
57	Drug Absorption, Action, and Disposition	1098	
58	Basic Pharmacokinetics	1127	
59	Clinical Pharmacokinetics	1145	
60	Principles of Immunology	1156	
61	Adverse Drug Reactions	1165	
62	Pharmacogenetics	1169	
63	Pharmacological Aspects of Substance Abuse	1175	
<b>Part 7 Pharmaceutical and Medicinal Agents</b>			
64	Diagnostic Drugs and Reagents	1185	
65	Topical Drugs	1200	
66	Gastrointestinal and Liver Drugs	1219	
67	Blood, Fluids, Electrolytes, and Hematological Drugs	1243	
68	Cardiovascular Drugs	1274	
69	Respiratory Drugs	1297	
70	Sympathomimetic Drugs	1305	
71	Cholinomimetic Drugs	1314	
72	Adrenergic and Adrenergic Neuron Blocking Drugs	1322	
73	Antimuscarinic and Antispasmodic Drugs	1328	
74	Skeletal Muscle Relaxants	1333	
75	Diuretic Drugs	1344	
76	Ureine and Antimigraine Drugs	1354	
77	Hormones and Hormone Antagonists	1358	
78	General Anesthetics	1395	
79	Local Anesthetics	1400	
80	Sedative and Hypnotic Drugs	1407	
81	Antiepileptic Drugs	1421	
82	Psychopharmacologic Agents	1429	
83	Analgesic, Antipyretic, and Anti-Inflammatory Drugs	1444	
84	Histamine and Antihistaminic Drugs	1464	
85	Central Nervous System Stimulants	1471	
86	Antineoplastic and Immunoactive Drugs	1477	
87	Anti-Infectives	1507	
88	Parasitocides	1562	
89	Immunizing Agents and Allergenic Extracts	1567	
<b>Part 8 Pharmacy Practice</b>			
<b>Part 8A Pharmacy Administration</b>			
90	Laws Governing Pharmacy	1595	
91	Pharmacoeconomics	1625	
92	Marketing Pharmaceutical Core Services	1634	
93	Documenting and Billing for Pharmaceutical Core Services	1640	
94	Community Pharmacy Economics and Management	1650	
95	Product Recalls and Withdrawals	1666	
<b>Part 8B Fundamentals of Pharmacy Practice</b>			
96	Drug Education	1677	

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