EXFROX SURGERY

A. Velikoretsky TEXT-BOOK OF SURGERY

TRANSLATED FROM THE RUSSIAN BY DAVID A. MYSHNE

Проф. А. Н. Великорецкий УЧЕБНИК ХИРУРГИИ

CONTENTS

	Page
PREFACE	. 11
Part One	
GENERAL SURGERY	
INTRODUCTION	. 15
PREVENTION OF SURGICAL INFECTION	. 17
General Idea of Purulent Infection Antisepsis Principal Antiseptics ASEPSIS Sterilisation by Physical Methods Disinfecting the Hands Dressing Materials	. 17 20 21
ASEPSIS	28
Sterilisation by Physical Methods	. 28
Disinfecting the Hands	. 32
Dressing Materials	. 37
SURGICAL SERVICE TO THE POPULATION	. 39
OPERATING ROOM	. 41
INSTRUMENTS	. 51
Instruments for Operating on Soft Tissues	. 51 57
Instruments for Bone Operations Instruments for Operations on the Lungs, Esophagus and Hear Instruments for Operating on the Urinary Tract	. 63
Instruments for Rectal Operations	. 64
DUTIES OF THE SCRUB NURSE	. 66
AUXILIARY ROOMS OF THE SURGICAL DEPARTMENT	72
DRESSING ROOMS AND WARDS	. 73
ANESTHESIA	. 76
General Anesthesia	. 77
General Anesthesia Inhalation Anesthesia Methods of Inhalation Anesthesia	. 77
Methods of Inhalation Anesthesia	. 79 92
Noninhalation Anesthesia	92
Postal Anesthesia	92
Rectal Anesthesia	92
Anesthetist's Mistakes Principles of Modern Anesthesiology	93
Potentiated Anesthesia	. 93
Ganglion-Blocking Substances	. 93 95
Hypothermia	. 95
Potentiated Anesthesia Ganglion-Blocking Substances Hypothermia Spinal Anesthesia	. 95
Local Anesthesia	. 97

				Page
PREPARING THE PATIENT FOR THE OPERATION				99
POSTOPERATIVE CARE				107
Postoperative Complications				121
HEMORRHAGES AND HEMOSTASIS				123
Arterial Hemorrhages Venous Hemorrhages Capillary Hemorrhages Capillary Hemorrhages Parenchymatous Hemorrhages Hemostasis Mechanical Methods of Hemostasis Physical Methods of Hemostasis Chemical Methods of Hemostasis Biological Methods of Hemostasis Biological Methods of Hemostasis Acute Anemia Caused by Massive Hemorrhages Infusion of Solutions				123
Venous Hemorrhages				124 124
Capillary Hemorrhages				124
Hemostasis				124
Mechanical Methods of Hemostasis		-		128
Physical Methods of Hemostasis				128
Chemical Methods of Hemostasis				129 129
Acute Anemia Caused by Massive Hemorrhages	•	1 1		129
Infusion of Solutions				131
BLOOD TRANSFUSION				
Effect of the Transfused Blood	sion		1	139
Preparing Containers, Apparatus and Solutions for	Ta	king	and	
Conserving the Blood		- 1		140
Standard Jars				141
Ampule for Blood Transfusion of the Central Institu	ute	01 B	1000	1/2
Ampule for Blood Transfusion of the Central Institution (CIBT) Preparing the Solutions Stabilising Solutions Sterilising the Apparatus Documentation Asepsis during Blood-Taking Taking the Blood				142
Stabilising Solutions				143
Sterilising the Apparatus				143
Documentation				143
Asepsis during Blood-Taking				144
Taking the Blood				145 146
Conserving the Blood				146
Taking the Blood	•		•	151
DEGREE OF THE TWEET WHEN THE PROOF TRANSPORT.				154
DESMURGY	*		•	. 154
Concept of Bandages	./ .		*	154 154
Triangular Bandages				156
T-Shaped Randage				156
Roller Bandage				156
Types of Roller Bandages		4.4		. 159
Head Bandages				. 164
Upper-Limb Bandages				. 166
Chest Bandages				. 167
Abdominal and Pelvic Bandages , ,	•			170
Adhesive Bandages				171
Immobilising Bandages				172
Splints and Splint Bandages				172
Plaster Bandages				. 176
Traction		. 190		. 188
Concept of Bandages Triangular Bandages Four-Tailed Bandage T-Shaped Bandage Roller Bandage Types of Roller Bandages Head Bandages Upper-Limb Bandages Chest Bandages Abdominal and Pelvic Bandages Lower-Limb Bandages Adhesive Bandages Adhesive Bandages Immobilising Bandages Splints and Splint Bandages Plaster Bandages Traction INJURIES (TRAUMAS)				. 193
				193
Syncope			116	194
Shock				. 194

										Page
Open Injuries										196
Wounds						100				196
Wounds Healing of Wounds Infection of Wounds Treating Suppurative Wounds Complications During the Healing of										203
Infection of Wounds							-	Α.		208
Treating Suppurative Wounds										211
Complications During the Harling of	WZO	und			*	7				216
Closed Injuries	, 110	unu	٠.							217
Contugion		1. 1.			*		*		*	217
Contusion						*				218
District Ligaments		* .	*			* 1		*		218
Dislocations						1		*	*	
Fractures			*		3.				*	228
Fractures				×.						220
Burns, Electric Shock and Frostbite	200	1.00	100					4.		237
Burns		100				¥ -	8	¥	*	237
Electric Shock				2						243
Burns			2.4		. 6		÷.			245
ACUTE PURULENT SURGICAL INFI	a com	FONT	a							
ACUTE PURULENT SURGICAL INFI	LUI.	ION	5 .				8.			249
Abscesses										249
Furuncles						ė.				250
Carbuncles									-	251
Furuncles										
Phlegmons Lymphangitis Lymphadenitis Phlebitis and Thrombophlebitis					*					252
Lymphadonitis						* .		*		253
Dhlabitia and Thrombophlabitia	A. 5				*			*		253
Placed Deisening (Consis)						1		*		255
Blood Poisoning (Sepsis)				* -	1	2			*	256
letanus				*			*		*	257
Tetanus	13.	* 1			*	*	*		*	
Gas Phlegmons and Gas Gangrene						4	3.			257
Erysipelas							*			259
Surgical Diphtheria		4						*	*	260
CDECIFIC CHRONIC INFECTIONS										261
SPECIFIC CHRONIC INFECTIONS										201
Surgical Tuberculosis									9	261
Tuberculosis of Lypmh Nodes										262
Tuberculosis of Bones and Joints								ė.		262
Prophylaxis of Surgical Tuberculos	is								ď	263
Treating Tuberculosis of Bones and	Lo	ints							•	263
Synhilitic Affections of Rones and I	Loin	te e				Š.,				265
Tuberculosis of Bones and Joints . Prophylaxis of Surgical Tuberculos Treating Tuberculosis of Bones and Syphilitic Affections of Bones and Actinomycosis	OIII	00				*		1	*	266
Actinomycosis							*			
LOCAL CIRCULATORY DISORDERS	S									267
Arterial and Venous Hyperemia .		*		1		*				267
Stasis					*	2				267
Local Anemia (Ischemia)										268
Infarct										268
Thrombosis		*			*					268
Embolism and Metastasis			. 7							269
Necrosis		4								269
Gangrene			14	101				1		270
Bedsores		9 -								271
Ulcers										272
				. 1						
VASCULAR DISEASES										273
Aneurysms				5						273
Arterial and Venous Hyperemia Stasis Local Anemia (Ischemia) Infarct Thrombosis Embolism and Metastasis Necrosis Gangrene Bedsores Ulcers VASCULAR DISEASES Aneurysms Varionse Veins						*				275

			Page
TUMOURS			277
Benign and Malignant Tumours			279
Causes of Tumours			279
Causes of Tumours Public Control of Malignant Neoplasms Classification of Tumours Benign Epithelial Tumours Malignant Epithelial Tumours—Cancers or Carcinomas Benign Connective-Tissue Tumours Malignant Connective-Tissue Tumours—Sarcomas			281
Classification of Tumours			282
Malignant Enithelial Tumours—Cancers or Carcinomas			283
Benign Connective-Tissue Tumours			284
Malignant Connective-Tissue Tumours—Sarcomas			285
Myomas Neurinomas Gliomas Complex Tumours Treatment of Tumours			286
Neurinomas			286
Gliomas			286
Complex lumours			287
		*	201
Part Two			
CLINICAL SURGERY			
INJURIES AND DISEASES OF THE FACE AND HEAD .		*	
Wounds Injuries to the Nose Hemorrhage from the Nose Foreign Bodies in the Nose Inflammatory Diseases Water Cancer			291
Injuries to the Nose			291
Hemorrhage from the Nose			291
Foreign Bodies in the Nose			293
Inflammatory Diseases			294
Water Cancer Inflammation of the Parotid Gland Inflammation of the Secondary Nasal Cavities Foreign Rodies in the Far		٠	294
Inflammation of the Parotid Gland			295
Foreign Rodies in the Ear		*	296
Foreign Bodies in the Ear			298
Salivary Fistula			301
Salivary Fistula Harelip Plastic Operations			301
Plastic Operations			302
Diseases and Injuries of the Jaws and Oral Cavity		4:	302
Distocations of the Lower Jaw			303
Fracture of the Jaw			306
Diseases of the Teeth			307
Dental Caries			307
Periodontitis			307
Hemorrhage Following Tooth Extraction			308
Dental Caries Periodontitis Hemorrhage Following Tooth Extraction Diseases and Injuries of the Skull and Its Contents			308
Cerebral Hernia Concussion of the Brain			308
Concussion of the Brain	-		308
Contusion of the Brain	*	*	309
Fractures of the Skull	•		313
Cranial Wounds			314
Cerebral Abscesses			317
Cranial Wounds			317
INJURIES AND DISEASES OF THE NECK, TRACHEA	AN	D	
ESOPHAGUS			
Wounds of the Neck			320

			Page
Lymphadenitis and Phlegmons of the Neck			321
Tuberculosis of the Cervical Lymph Nodes			322
Goiter			322
Basedow's Disease			323
Myxedema			324
Laryngeal Stenosis			324
Tracheotomy			325
Foreign Rodies in the Respiratory Tract	7		326
Dispesse of the Econhagus			327
Foreign Rodies in the Pharmy			327
Foreign Bodies in the Frankagus	121		327 327 327
Ctempois of the Ecophogus	1.0	*	328
Stenosis of the Esophagus			328
Lymphadenitis and Phlegmons of the Neck Tuberculosis of the Cervical Lymph Nodes Goiter Basedow's Disease Myxedema Laryngeal Stenosis Tracheotomy Foreign Bodies in the Respiratory Tract Diseases of the Esophagus Foreign Bodies in the Pharynx Foreign Bodies in the Esophagus Stenosis of the Esophagus Cancer of the Esophagus Cancer of the Esophagus			. 520
INJURIES AND DISEASES OF THE THORAX AND TH			
RACIC ORGANS			. 331
n			224
Fractures of the Ribs			, 551
Injuries to Thoracic Organs			. 332
Spontaneous Pneumothorax			, 334
Blood Spitting			. 334
Pulmonary Abscesses			, 335
Purulent Pleurisy			. 336
Cancer of the Lungs			. 339
Operations on the Lungs			339
Cardiac Surgery			341
Congenital Cardiac Defects			341
Possistant Ratalla's Duet			3/4
Persistence of the Ovel Opening			2/2
A series of Cardian Defeater Mitral Stangar			9/9
Acquired Cardiac Defects; Mitrai Stenosis			. 044
Diseases of the Breasts			. 344
Mastitis			. 344
Cancer of the Breast			. 346
Fractures of the Ribs Injuries to Thoracic Organs Spontaneous Pneumothorax Blood Spitting Pulmonary Abscesses Purulent Pleurisy Cancer of the Lungs Operations on the Lungs Cardiac Surgery Congenital Cardiac Defects Persistent Botallo's Duct Persistence of the Oval Opening Acquired Cardiac Defects; Mitral Stenosis Diseases of the Breasts Mastitis Cancer of the Breast			
SURGICAL DISEASES OF THE ABDOMINAL WALL A	AND	TH	E
ABDOMINAL ORGANS			. 349
Abdominal Hernias Strangulation of Hernia Types of Hernias Concept of Surgical Treatment of Hernias Injuries and Diseases of Abdominal Organs Acute Abdomen Peritonitis Appendicitis Tuberculous Peritonitis Ascites Diagnostic Laparotomy Injuries and Diseases of the Stomach and Gastrointest Injuries to the Stomach			2/0
Abdominal Hernias			. 349
Strangulation of Hernia			. 352
Types of Hernias			. 352
Concept of Surgical Treatment of Hernias			. 355
Injuries and Diseases of Abdominal Organs			. 356
Acute Abdomen			. 359
Peritonitis			360
Appendicitis			364
Tuberculous Peritonitis			371
Agaitag			371
Diagnostic I approtomy			372
Diagnostic Laparotomy		i m	ct 372
injuries and Diseases of the Stomach and Gastrointesi	una.	1 Ira	CL 5/2
Injuries to the Stomach			. 372
Injuries to the Stomach	*		. 373
Cancer of the Stomach			. 377
Operations on the Stomach			. 378
Diseases of the Intestines	. "		. 384
Intestinal Obstruction			. 384
Intestinal Fistulas			. 392
Cancer of the Stomach Operations on the Stomach Diseases of the Intestines Intestinal Obstruction Intestinal Fistulas Diseases of the Rectum			393

	Page
Atresia of the Anus and Rectum	393
Paraproctitis	393
Perirectal Fistula	395
Anal Fissures	396
Hemorrhoids	396
Tumours of the Rectum	396
Tumours of the Rectum Prolapse of the Rectum	401
INJURIES AND DISEASES OF THE LIVER AND THE [BILE	
DUCTS	403
Doors	100
Ruptures of the Liver	403
Liver Injuries	403
Abscesses of the Liver	403
Tumours of the Liver	404
Echinococcosis of the Liver	405
Inflammation of the Gallbladder	406
Liver Injuries Abscesses of the Liver Tumours of the Liver Echinococcosis of the Liver Inflammation of the Gallbladder Injuries and Diseases of the Spleen and Pancreas	410
INJURIES AND DISEASES OF THE UROGENITAL ORGANS	412
General Diagnosis of Urogenital Diseases	412
General Diagnosis of Urogenital Diseases	413
Injuries and Diseases of the Urinary Bladder and the Male Sexual	410
Organs	417
Injury to the Urinary Bladder and the Urethra	417
Organs Injury to the Urinary Bladder and the Urethra Vesical Calculus	419
Vesical Calculus Hypertrophy of the Prostate Stricture of the Urethra Foreign Bodies in the Urinary Tract	419
Stricture of the Heathra	420
Foreign Rodies in the Urinary Tract	420
Hydrocola	421
Tuberculous Enididymitis	421
Hydrocele	421
Thinton and Tadaphinosis	-
INJURIES AND DISEASES OF THE SPINE, SPINAL CORD	
AND PELVIS	424
AND IELVID	
Fractures and Dislocations of the Spine	424
Gunshot Wounds of the Spine and Spinal Cord	425
Tuberculosis of the Spine	426
Fractures of the Pelvis	432

INJURIES AND DISEASES OF THE LIMBS	433
Dislocations and Fractures of the Limbs	433
Dislocations of the Shoulder	//22
Dislocations of the Forearm Dislocations of the Thumb Dislocations of the Thigh Dislocations of the Knee	435
Dislocations of the Thumb	435
Dislocations of the Thigh	436
Dislocations of the Knee	436
Fractures of the Clavicle	436
Fractures of the Humerus	436
Dislocations of the Thigh Dislocations of the Knee Fractures of the Clavicle Fractures of the Humerus Fractures of the Forearm Fractures of the Fingers Fractures of the Femur Fractures of the Bones of the Shank Injuries and Diseases of Bones and Joints Acute Serves Inflammation of Joints	438
Fractures of the Fingers	439
Fractures of the Femur	440
Fractures of the Bones of the Shank	444
Injuries and Diseases of Bones and Joints	446
Acute Serous Inflammation of Joints	447
Acute Serous Inhammation of Joints	***** 1

그런 이 전쟁을 보았다. 살이 하는 그리고 있는 것이 되었다. 그런 그렇게 되었다.	Page
Acute Osteomyelitis	448
Chronic Osteomyelitis	450
Tuberculosis of Bones and Joints	450
Tuberculosis of the Shoulder Joint	450
Tuberculosis of the Elbow Joint	451
Tuberculous Gonitis	451
Tuberculosis of the Hip Joint	451
Diseases of the Soft Tissues of the Limbs	452
Pulp Infection of the Fingers	453
Purulent Tendovaginitis	454
Hidradenitis	454
Varicose Veins	454
Varicose Ulcers	456
Congenital and Acquired Deformities	457

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PREFACE

This textbook of surgery is intended for nurse-training schools. It deals with the role and duties of a scrub nurse. In order successfully to discharge her multifarious and very important duties the nurse must be familiar with the elements of surgery, surgical diseases and their treatment and first aid in accidents.

The textbook discusses in popular form asepsis and antisepsis, principles of organisation and administration of work in an operating room and surgical department of a hospital rather than clinical type, instruments and their care, anesthesia, preparation of patients for operations and postoperative care, administration of first aid in hemorrhages and injuries, and questions of clinical surgery.

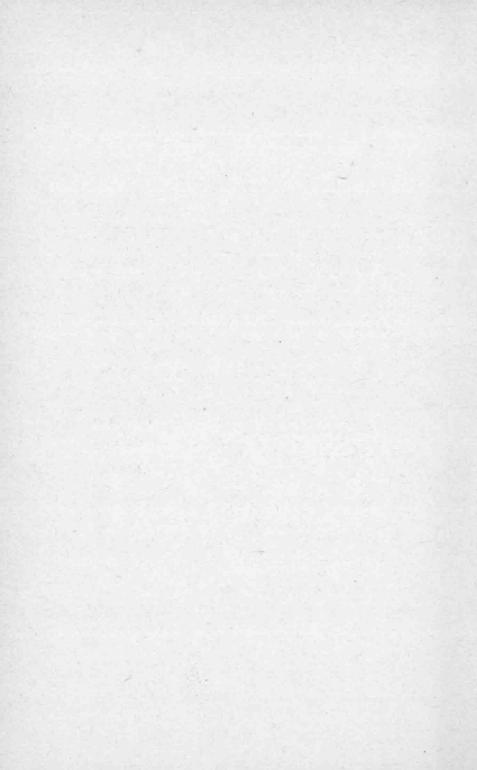
All questions are dealt with only in so far as they will concern the scrub nurse in her daily practical work.

The material is presented in a certain succession and although some of the questions may not be of particular practical importance today, they are dealt with in order to facilitate learning.

The author endeavoured to present the material in an

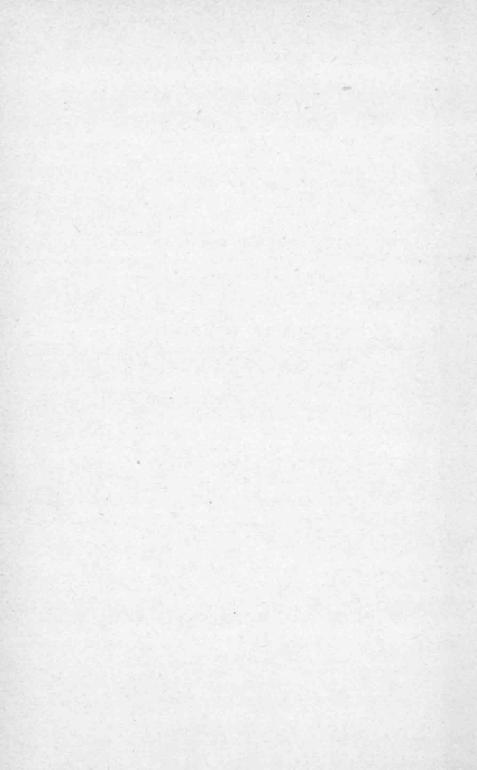
intelligible and popular manner.

AUTHOR



PART ONE

GENERAL SURGERY



INTRODUCTION

Surgery is a modified Greek term *cheirourgia*; it is formed of two words: cheir—hand, and ergon—work and therefore means

a working by hand.

Surgery is the branch of medicine in which not only drugs, but also various mechanical therapeutic manipulations (incisions, punctures, suturing, reductions of dislocations, etc.) performed by the physician are used. These procedures are designated by the words "surgical operations" or merely by one word "operation".

For a very long time surgical operations were performed on wounds, bruises, ruptured tendons and other injuries only on superficial parts of the body. But severe complications frequently developed even after such operations and not infrequently caused the death of the operated patient. For example, during the Crimean War of 1855-56, 53 per cent of the wounded in the French army died after amputation of an arm, and only 36 of the 1,681 patients with an amputated leg survived, the remaining patients dying of various grave complications, mainly infections of the wounds.

The numerous grave complications and lethal results of the operations at that time were due to the fact that the surgeons were as yet incapable of preventing infections of the wounds.

Only during the second half of the 19th century did the general development of natural science make it possible to solve this difficult problem. The brilliant Russian surgeon N. I. Pirogov was the first to voice the assumption that wounds were infected by invasion of special causative agents which he named "miasmas". In 1863 the famous French scientist Pasteur published the results of his remarkable studies in the essence of the processes of putrefaction and fermentation. Pasteur proved that both these processes were evoked by minute living organisms—bacteria. On the basis of Pasteur's works the British surgeon Lister concluded that the purulence of wounds was also caused by bacteria which found their way into the wounds from the air. To protect the wounds from penetration of bacteria or to destroy these bacteria after their penetration into the wounds Lister began to

irrigate the wounds with a solution of carbolic acid and to treat the instruments and dressing material used during operations with the same solution.

The method elaborated by Lister was given the name of antiputrefactive or antiseptic. The use of the antiseptic method produced fine results. The number of complications which carried very many of the sick and wounded to their graves sharply diminished.

During the years that followed scientists found that to protect the wounds from infection it was enough to treat all objects which came in contact with the wounds by a physical agent (heat). This new method of disinfection by means of heat was given the name

of asepsis.

The antiseptic and aseptic methods of treating wounds revolutionised surgery and almost completely eliminated the danger of infecting wounds. They made it possible to operate not only on the superficial parts of the body, but also on internal organs. Under the protection of asepsis and antisepsis most diverse and complex operations are now successfully performed on such vitally important organs as the lungs and heart.