MRCS PART A NOTES - REDA

2. Phy	siology										. 1
	Jugular Venous Pressure (JVP)										. 3
	The Normal ECG										. 4
	Acute Phase Proteins										. 5
	Tumour Necrosis Factor (TNF)										. 5
	Disorders of Acid - Base Balance										. 6
	Arterial Blood Gas (ABG) Interpretation										. 7
	Fluid Compartment Physiology										. 8
	Cerebrospinal Fluid (CSF)										. 8
	Coagulation Cascade										. 9
	Interpretation Blood Clotting Test Results.										10
	Abnormal Coagulation										10
	Hypercoagulability										10
	Warfarin										11
	Bleeding										11
	Cardiac Physiology										12
	Electrical Activity of the Heart										14
	Inotropes and Cardiovascular Receptors .										15
	Anion Gap										15
	Calcium Homeostasis										16
	Hypocalcaemia: Causes and Management										16
	Hypercalcaemia										17
	Management Of Hypercalcaemia										17
	Hyperkalaemia										18
	Hypokalaemia										18
	ECG Features in Hypokalemia										18
	Hypomagnasaemia										19
	Hyponatraemia										19
	Hyperuricaemia										20
	Potassium Secretion - GI Tract										20
	Iron Metabolism										20
	Pulmonary Artery Occlusion Pressure Mon	itor	ing								21
	Respiratory Physiology: Lung Compliance										21
	Transfer Factor										21
	Control of Ventilation										22
	Alveolar Ventilation										22
	Oxygen Transport										23
	Lung Volumes										24
	Parathyroid Hormone										25

	Glucagon	25
	Gastrointestinal Secretions	25
	Gastric Secretions	26
	Peristalsis	28
	Pancreas Endocrine Physiology	28
	Pancreas Exocrine Physiology	28
	Renal Physiology	29
	Acute Renal Failure: Pre Renal Failure Vs. Acute Tubular Necrosis	30
	Diuretic Agents	30
	Syndrome of Inappropriate Antidiuretic Hormone (SIADH): Causes	31
	Renin	31
	Renin-Angiotensin-Aldosterone System	32
	Phases of Wound Healing	33
	Response to Surgery	33
	Stress Response: Endocrine and Metabolic Changes	34
	Shock	36
	Urinary Incontinence	38
	Adrenal Physiology	39
	Vitamin Deficiency	40
	Vitamin B12 Deficiency	40
3. Path	nology	41
	Acute Inflammation	42
	Chronic Inflammation	43
	Gastritis	44
	Lead Poisoning	44
	Cell Death	45
	Disseminated Intravascular Coagulation	46
	Disseminated Intravascular Coagulation - Diagnosis	
	Cardiac Murmurs	
	Nerve Injury	
	Absence Of The Vas Deferens	
	Cleft Lip and Palate	
	Choanal Atresia	
	Achondroplasia	
	Genetics and Surgical Disease	
	Tumour Markers	
	Hodgkins Lymphoma	
	Acute Intermittent Porphyria	
	Aggressive Fibromatosis	
	Hereditary Spherocytosis	
	Hypersensitivity Reactions	51

	Koebner Phenomenon	51
	Adrenal Lesions - Incidental	52
	Phaeochromocytoma and Adrenal Lesions	52
	Glucagonoma	53
	Glioma	53
	Гhymus	53
	Sarcomas	54
	Trypanosoma Cruzi	55
	Actinomycosis	55
	Burns	56
	Collagen	57
4. Peri	operative care	59
	American Society of Anesthesiologists Physical Status Scoring System	
	'ASA)	60
	Preparation for Surgery	60
	Pre-operative Fluid Management	61
	Intra-operative Fluid Management	61
	Intravenous Access	62
	Atropine	62
	Local Anaesthetic Agents	63
	Anaesthetic Agents	64
	Airway Management	64
	Muscle Relaxants	65
	Malignant Hyperthermia	65
	Tourniquets	66
	Blood Products - Cross Matching	67
	Heparin	67
	Thromboprophylaxis in Surgical Patients	68
	Proactive Care of Older People Undergoing Surgery (POPS)	68
5. Pos	op management and care	69
	Acute Dystonic Reaction	70
	Acute Renal Failure	70
	Brain Death	70
	Adult Respiratory Distress Syndrome	71
	Circulatory Support of the Critically III	72
	Cryoprecipitate	72
	Massive Haemorrhage	73
	Hypovolaemia and The Surgical Patient	73
	Management of Pain	74
	Neuropathic Pain	75
	Nutrition Monitoring - NICE Guidelines	76