

# Introduction to Anesthesia Booklet

## **Topics:**

**Medical Abbreviations**

**Machine Check**

**Common Lab Values**

**Table Top Setup**

**A**

**A&O** Alert and oriented

**AA** Anesthesiologist assistant

**AAA** abdominal aortic aneurysm

**AAAA** American Academy of Anesthesiologist Assistants

**AAF** African-American female

**AAM** African-American male

**AAPA** American Association of Physician Assistants

**Ab; ab** Abortion; antibiotics

**ABG** Arterial blood gas

**ABL** Allowable blood loss

**abn** Abnormal

**ACL** Anterior cruciate ligament

**ACLS** advanced cardiac life support

**ACS** Acute coronary syndrome

**ACT** Activated clotting time

**A.C.T.H., ACTH** Adrenocorticotrophic hormone

**ADD** Attention deficit disorder

**ADHD** Attention deficit and hyperactivity disorder

adm. Admission, administer(ed)

**AF** Atrial fibrillation (or A fib)

**A/G** Albumin-globulin ratio (blood)

**AI** Aortic insufficiency

**AICD** Automated implantable cardioverter defibrillator

**AIDS** Acquired immuno-deficiency syndrome

**AKA** Above the knee amputation

**AK** Above knee

alb. Albumin

**ALI** Acute lung injury

alk. phos. Alkaline phosphatase

**ALS** Amyotrophic lateral sclerosis (Lou Gehrig's Disease)

**AMA** Against medical advice, American Medical Association

**AMI** Acute myocardial infarction

amt Amount

**amp Ampule**

ant Anterior

**A&O x 3 Alert and oriented to person, place, and time**

AODM Adult onset diabetes mellitus

**A/P, AP Anterior-posterior, anteroposterior**

**aPTT Activated partial thromboplastin time**

**AR Aortic regurgitation**

**ARDS Adult respiratory distress syndrome**

**AROM artificial rupture of membranes**

**AS Aortic stenosis**

**ASA Aspirin, American Society of Anesthesiologist**

**ASC Ambulatory surgery center**

ASCAD Arteriosclerotic coronary artery disease

ASCVD Arteriosclerotic cardiovascular disease

**ASD Atrial septal defect**

ASHD Arteriosclerotic heart disease

**AST Aspartate aminotransferase (formerly SGOT)**

**ATN Acute tubular necrosis**

**AV Atrioventricular; assisted ventilation**

**A/V Arterio-venous**

**AVF Arteriovenous fistula**

**AVG Arteriovenous graft**

**AVM Arteriovenous malformation**

**AVR Aortic valve replacement**

## **B**

**B bilateral**

Ba barium

**BCLS basic cardiac life support**

**BCP birth control pills**

BE barium enema

**BH Bair Hugger**

**b.i.d./B.I.D. twice a day**

**B.I.N. twice a night**

BK below knee

**BLBS= bilateral breath sounds and equal**

**BKA below the knee amputation**

**BM bowel movement**

**BMI body mass index**

**BMR basal metabolic rate**

**BMT bilateral myringotomy tubes**

**BP blood pressure**

**BPH benign prostatic hyperplasia**

**bpm beats per minute**

BRBPR bright red blood per rectum

**BS breath sounds; bowel sounds; blood sugar**

**BSA body surface area**

**BSO** bilateral salpingo-oophorectomy

B/U back-up

**BUN** blood urea nitrogen

BW birth weight

**bx** biopsy

## C

c with

**C-1, C-2,etc** first cervical vertebra, etc.

**CA** cancer, carcinoma

**Ca** calcium

**CABG** coronary artery bypass graft

**CaCl** calcium chloride

**CAD** coronary artery disease

**CaGl** calcium gluconate

**CASHD** coronary artery symptomatic heart disease

Cal. calorie

cap. capsule

**CAPD** continuous ambulatory peritoneal dialysis

**CAT** computerized axial tomography

**CBC** complete blood count

**CBF** cerebral blood flow

**cc** cubic centimeter

**C<sub>CR</sub>** creatinine clearance

**CCU** coronary care unit or critical care unit

**CEA** carotid endarterectomy

**CF** cystic fibrosis

**CFX** circumflex coronary artery

CHD congenital heart disease

**CHEM-6** Na<sup>+</sup>, K<sup>+</sup>, Cl<sup>-</sup>, CO<sub>2</sub>, glucose, BUN

**CHEM-7** Chem-6 + creatinine

CHEM-14 total bilirubin, total protein, albumin, calcium, phosphorus, alkaline phosphatase, lactic dehydrogenase, SGOT, creatinine, uric acid, cholesterol, MSI, GGT, SGPT

CHEM-23 CHEM-6 + CHEM-14 + CPK, direct bilirubin, triglycerides

**CHF** congestive heart failure

**CHI** closed head injury

Chol. cholesterol

**CI** cardiac index

**CICU** cardiac intensive care unit

CK creatine kinase

**Cl** chloride

**cm.** centimeter

**CMRO<sub>2</sub>** cerebral metabolic requirement of O<sub>2</sub>

**CMV** cytomegalovirus

**CNS** central nervous system

c/o complained of

**CO** cardiac output

**CO<sub>2</sub>** carbon dioxide, bicarbonate

**COPD** chronic obstructive pulmonary disease

**CP** cerebral palsy; chest pain

**CPAP** continuous positive airway pressure

**CPB** cardiopulmonary bypass

**CPK** creatinine phosphokinase

**CPR** cardiopulmonary resuscitation

**Cryo** cryoprecipitate

**CRNA** certified registered nurse anesthetist

**C & S** culture and sensitivity

**C/S** Cesarean section delivery

**CSF** cerebrospinal fluid

**CT; C/T** computed tomography (see **CAT**)

**CTA** clear to auscultation

**CTR** carpal tunnel release

**CTS** carpal tunnel syndrome

**Cu** copper

**CV** controlled ventilation / cardiovascular

**CVA** cerebral vascular accident

**CVICU** cardiovascular intensive care unit

**CVP** central venous pressure

c/w consistent with

**CXR** chest X-ray

## D

**D5W** dextrose 5% in water

**D5 1/2NS** dextrose 5% in 0.45% normal saline

**D5LR** dextrose 5% in Lactated Ringers

**D10W** dextrose 10% in water

**D50** dextrose 50%

**D&C** dilation and curettage

**D/C** discontinue

**DDD** degenerative disc disease

**D.D.S.** doctor of dental science

**DI** diabetes insipidus

**DIC** disseminated idiopathic coagulopathy

**DIFF.** differential (blood count)

**DJD** degenerative joint disease

**DKA** diabetic ketoacidosis

dl deciliter

**DL** direct laryngoscopy

**DLCO** diffusion capacity of lung-carbon monoxide test

**DLT** double-lumen tube

**DMD** Doctor of Medical Dentistry

**DNR** do not resuscitate

**D.O.** Doctor of Osteopathic Medicine

**DOA** dead on arrival

**DOB** date of birth

**DOE** dyspnea on exertion

DPL diagnostic peritoneal lavage  
DPT diphtheria-pertussis-tetanus  
**DT delirium tremens**  
DTRs deep tendon reflexes  
**DVT deep vein thrombosis**  
**dx; Dx diagnosis**  
**Dz disease**

## E

**EBL estimated blood loss**  
EBT endobronchial tube  
**EBV estimated blood volume; Epstein-Barr virus**  
ECCE extracapsular cataract extraction  
**ECG electrocardiogram**  
**ECMO extracorporeal membrane oxygenation/oxygenator**  
**ECT electroconvulsive therapy**  
**ED emergency department**  
EDC estimated date of confinement  
**EEG electroencephalogram**  
**EF ejection fraction**  
**EGA estimated gestational age**  
**EGD esophagogastroduodenoscopy**  
**EJ external jugular vein**  
EMG electromyogram  
**ENT ear, nose, throat**  
EOM extraocular muscles  
**ER emergency room**  
ESR erythrocyte sedimentation rate  
**ESRD end stage renal disease**  
**ESRF end stage renal failure**  
EST electroshock therapy  
**ESWL external sound wave therapy**  
**ETCO<sub>2</sub> end-tidal carbon dioxide**  
**EtOH alcohol**  
**ETT endotracheal tube**  
**EUA examination under anesthesia**  
**Ex lap exploratory laparotomy**

## F

**FANA Florida Association of Nurse Anesthetists**  
**F.B. foreign body**  
FBS fasting blood sugar  
**FeSO<sub>4</sub> ferrous sulfate (iron)**  
**FEV<sub>1</sub> forced expiratory volume at 1 second**  
**FFP fresh frozen plasma**  
**FHx family history**

**FHR** fetal heart rate  
**FHT** fetal heart tone  
**FIO<sub>2</sub>** fraction inspired oxygen  
**FRC** functional residual capacity  
**FROM** full range of motion  
**FSA** Florida Society of Anesthesiologists  
FSH follicle stimulating hormone  
FTA fluorescent treponemal/titer antibody  
FTI free triiodothyronine index  
FTI free thyroxine index  
FTLB full term living birth  
FTNB full term normal birth  
**FTT** failure to thrive  
**F/U** follow up  
**FUO** fever of unknown origin  
**Fx** fracture

## **G**

GBS gall bladder series  
GC gonococcus  
**GCS** Glasgow Coma Scale  
**g/dL** grams per deciliter  
GDM gestational diabetes mellitus  
GE gastroesophageal  
**GERD** gastroesophageal reflux disorder  
GGT gamma glutamyl transpeptidase  
GH growth hormone  
**GI** gastrointestinal  
**G/P** gravida/para  
GPI general paresis  
G<sub>6</sub>PD glucose 6 phosphate dehydrogenase  
grav. gravida (pregnancy)  
**GSW** gunshot wound  
**gtt** drops  
GTT glucose tolerance test  
**GU** genitourinary  
**GYN** gynecology

## **H**

h, H hour  
HAV hepatitis A virus  
HBV hepatitis B virus  
**HCG, hCG** human chorionic gonadotropin  
**Hct** hematocrit  
HD hemodialysis  
**HDL** high density lipoprotein  
**HELLP** hemolysis, elevated liver enzymes, low platelets (a syndrome)  
**Hg** mercury

**Hgb** hemoglobin

HGH human growth hormone

**HIV** human immunodeficiency virus

HME heat-moisture exchanger

**H/O** history of

**H & P** history and physical

**HPI** history of present illness

**HPV** human papillomavirus

**HTN** hypertension

**Hx; hx** history

## I

**IABP** intra-arterial balloon pump

IBW ideal body weight

**ICP** intracranial pressure

**ICU** intensive care unit

**I & D** incision and drainage

**IDDM** insulin dependent diabetes mellitus

**I/E** inspiratory-to-expiratory time ratio

Ig A,D,E,G,M immunoglobulin- types A,D,E,G,M

**IGP** intragastric pressure

**IHSS** idiopathic hypertrophic subaortic stenosis

**IHR** inguinal hernia repair

**IJ** internal jugular vein

**IM** intramuscular

**IMA** internal mammary artery

**IMV** intermittent mandatory ventilation

**INR** internal normalization ratio

**I & O** intake and output

**IOP** intraocular pressure

ITP idiopathic thrombocytopenic purpura

**IUD** intrauterine device

**IUFD** intrauterine fetal death

**IUP** intrauterine pregnancy

**IV** intravenous

**IVC** inferior vena cava

IVDA intravenous drug abuse

IVF in vitro fertilization

IVH intraventricular hemorrhage

**IVP** intravenous pyelogram

## J

JODM juvenile onset diabetes mellitus

**JVD** jugular vein distension

## K

**K** potassium

Kcal, KCAL kilocalorie

**KCl** potassium chloride

**kg** kilogram

**KUB** kidney, ureter, bladder (used when taking an X-ray)

**KVO** keep vein open

## L

**L** left; liter

**L-1, L-2, etc.** first lumbar vertebra, etc.

**LAD** left anterior descending (coronary artery)

lap. laparotomy

lat lateral

**LAVH** laparoscopic assisted vaginal hysterectomy

**LBBB** left bundle branch block

**LBP** low back pain

LBW low birth weight

**L & D** labor and delivery

LDH lactic dehydrogenase

**LDL** low density lipoprotein

**LE** lower extremity

**LFT** liver function test(s)

LHF left heart failure

LHRH luteinizing hormone releasing hormone

**LIMA** left internal mammary artery

**LLD** left lateral decubitus (position)

**LLE** left lower extremity

**LLL** left lower lobe

**LLQ** left lower quadrant

LM left main coronary artery

**LMA** laryngeal mask airway

**LMP** last menstrual period

**LOC** loss/level of consciousness

**LP** lumbar puncture

**LPN** licensed practical nurse

**LR** lactated Ringer's solution

**LSO** left salpingo oophorectomy

**LTL** laparoscopic tubal ligation

**LUE** left upper extremity

**LUL** left upper lobe

**LUQ** left upper quadrant

**LV** left ventricle

**LVAD** left ventricular assist device

LVE left ventricular enlargement

**LVEDP** left ventricular end diastolic pressure

**LVH** left ventricular hypertrophy

LWMA left wall motion abnormality

## M

M1 mitral first sound

**MAC** minimum alveolar concentration; monitored anesthesia care

**MAP** mean arterial pressure

MBC maximal breathing capacity

**MCA** motorcycle accident

mcg microgram

**MCL** mid clavicular line

**MD** Medical Doctor

**MDI** metered dose inhaler

mEq milliequivalent

mEq/L milliequivalent per liter

mg milligram

mg/dL milligrams per deciliter

**MgSO<sub>4</sub>** magnesium sulfate

**MH** malignant hyperthermia

**MID-CAB** minimally invasive coronary artery bypass

**MICU** medical intensive care unit

min minute

ml milliliter

mm millimeter

mmHg millimeter of mercury

**MOSF** multi-organ system failure

**MR** mitral valve regurgitation

**MRI** magnetic resonance imaging

**MRSA** methicillin resistant staph aureus

**MS** multiple sclerosis; mitral stenosis

**MSO<sub>4</sub>** morphine sulfate

MSL mid sternal line

**MVA** motor vehicle accident

**MVI** multivitamins

**MVP** mitral valve prolapse

**MVR** mitral valve replacement

## N

**N; N<sub>2</sub>**nitrogen

**Na** sodium

**N/A** not applicable; not available

NAD no apparent distress

**NaP** sodium pentothal

**NG** nasogastric  
**NH<sub>3</sub>** ammonia  
**NI** not indicated  
**NICU** neonatal intensive care unit  
**NIDDM** non-insulin dependent diabetes mellitus  
**NKA** no known allergies  
**NKDA** no known drug allergies  
**NMR** nuclear magnetic resonance  
**N<sub>2</sub>O** nitrous oxide  
**NP** nurse practitioner  
**NPH** neutral protamine Hagedorn (insulin)  
**NPO** nothing by mouth (nil per os)  
**NS** normal saline  
**NSAID** non-steroidal anti-inflammatory drug  
**NSR** normal sinus rhythm  
**NSU** Nova Southeastern University  
**NTG** nitroglycerine  
**NTT** nasal tracheal tube  
**N/V** nausea and vomiting  
**N/V/D** nausea, vomiting, diarrhea

## O

**O<sub>2</sub>** oxygen  
**OB** obstetrics  
**OB/GYN** obstetrician/gynecologist  
**OD** overdose  
**OETT** oral endotracheal tube  
**OP CAB** off-pump coronary artery bypass  
**OPS** out patient surgery  
**OR** operating room  
**ORIF** open reduction internal fixation  
**OSA** obstructive sleep apnea  
**O.T.** occupational therapy  
**OTC** over the counter

## P

**p** after  
**P<sub>2</sub>** pulmonic second sound  
**P & A** percussion and auscultation  
**PaCO<sub>2</sub>** partial pressure of CO<sub>2</sub> in arterial blood  
**PA** pulmonary artery  
**PAC** premature atrial contraction; pulmonary artery catheter  
**PA-C** physician assistant-certified  
**PACU** post anesthesia care unit

**PALS** pediatric advanced life support  
**PaO<sub>2</sub>** partial pressure of O<sub>2</sub> in arterial blood  
**PAOP** pulmonary artery occluded pressure  
Pap Papanicolaou smear (Pap smear)  
para parity  
**PAT** paroxysmal atrial tachycardia; pre admission testing  
**PCA** patient controlled analgesia  
**PCN** penicillin  
**PCWP** pulmonary capillary wedge pressure  
**PD** peritoneal dialysis  
**PDA** patent ductus arteriosus  
**PE** pulmonary embolism  
**PEA** pulseless electrical activity  
**PEEP** positive end expiratory pressure  
**PEG** percutaneous endoscopic gastrostomy  
per by  
**PERRLA** pupils, equal, round, reactive to light and accommodation  
**P<sub>ET</sub>CO<sub>2</sub>** partial pressure of CO<sub>2</sub> in end-tidal gas  
**PFO** patent foramen ovale  
**PFT** pulmonary function test  
**pH** hydrogen ion concentration  
PI present/previous illness  
**PICC** percutaneously inserted central catheter  
**PICU** pediatric intensive care unit  
**PID** pelvic inflammatory disease  
**PIH** pregnancy induced hypertension  
**PIP** peak inspiratory pressure  
**PLT/plt.** platelets  
**PMHx** past medical history  
**PMS** premenstrual syndrome  
PND paroxysmal nocturnal dyspnea, post nasal drip  
**PNV** prenatal vitamins  
**PO** by mouth  
PO<sub>4</sub> phosphate  
**POD** postoperative day  
**PONV** post-op nausea and vomiting  
post-op after operative  
p.p. postprandial  
PP post partum  
**PPP** pressure points padded  
**PPD** purified protein derivative(TB test)  
PPL pleuropneumonia like  
PR per rectum  
**PRBC** packed red blood cells  
preop before surgery  
p.r.n./prn whenever necessary  
**PROM** premature rupture of membranes  
**PSHx** past surgical history  
PSP phenolsulfonphthalein test  
PSV pressure support ventilation  
**PSVT** paroxysmal supraventricular tachycardia

**PT** prothrombin time (a.k.a. protime); physical therapy  
**PTA** prior to admission  
**PTCA** percutaneous transluminal coronary angioplasty  
**PTH** parathyroid hormone  
**PTT** partial thromboplastin time  
**PUD** peptic ulcer disease  
**PVC** premature ventricular contraction  
**PVD** peripheral vascular disease  
**PVR** pulmonary vascular resistance

## **Q**

**q** every  
**qd** every day  
**qh** every hour  
**q2h** every 2 hours  
**q4h** every 4 hours  
**qHS** every night  
**qid** four times a day  
**qn** every night  
**qod** every other day  
**QRS** ventricular wave ECG  
**q.s.** sufficient quantity  
**QV** as much  
**qwk** every week

## **R**

**R** right  
**RA** rheumatoid arthritis; right atrium  
rad unit of measurement of the absorbed dose of ionizing radiation  
**RAD** reactive airway disease  
**RAH** right atrial hypertrophy  
**RAI** radioactive iodine  
**RAP** retrograde autologous prime  
**RBBB** right bundle branch block  
**RBC** red blood cell  
**RCA** right coronary artery  
RDS respiratory distress syndrome  
**RF** rheumatic fever  
**Rh** Rhesus factor  
**RHD** rheumatic heart disease  
**RHF** right heart failure  
**RLE** right lower extremity  
**RLL** right lower lobe  
**RLQ** right lower quadrant  
**RML** right middle lobe

**RN** registered nurse

**R/O** rule out

ROA occiput right anterior

**ROM** range of motion

ROP occiput right posterior

**ROS** review of systems

ROT occiput right transverse

RQ respiratory quotient

**RR** respiratory rate

RRE round,regular,equal

**RRR** regular rate and rhythm

**RSO** right salpingo oophorectomy

RSD reflex sympathetic dystrophy

RSV respiratory syncytial virus

**RT** respiratory therapy

R/T related to

RTC return to clinic

RT<sub>3</sub>U resin triiodothyronine uptake

**RUE** right upper extremity

RUL right upper lobe

**RUQ** right upper quadrant

**RVAD** right ventricular assist device

**RVH** right ventricular hypertrophy

RWMA right wall motion abnormality

**Rx** therapy; prescription

## S

**s** without

**SA** sinoatrial

**SAH** subarachnoid hemorrhage

**SaO<sub>2</sub>** oxygen saturation of hemoglobin in arterial blood

**SBE** subacute bacterial endocarditis

**SCD** sequential compression device

SD septal defect

**SDH** subdural hematoma

**SGC** Swan-Ganz catheter

SGOT serum glutamic oxaloacetic transaminase (AST)

SGPT serum glutamic pyruvic transaminase (ALT)

**SHx** social history

**SIADH** syndrome of inappropriate antidiuretic hormone

**SICU** surgical intensive care unit

**SIDS** sudden infant death syndrome

**SIMV** synchronized intermittent mandatory ventilation

SIRS systemic inflammatory response syndrome

**SL** sublingual

SLE systemic lupus erythematosus

**SNP** sodium nitroprusside

**SOB** shortness of breath

**S/P** status post

**SpO<sub>2</sub>** saturation of hemoglobin in arterial blood from pulse oximetry

**SQ** subcutaneous

**SR** spontaneous respiration

**SROM** spontaneous rupture of membranes

**s/s** signs and symptoms

**SSS** sick sinus syndrome

**STAT** supersedes tasks of all types (i.e. immediately)

**STD** sexually transmitted disease

**SV** stroke volume; supraventricular; spontaneous ventilation

**SVC** superior vena cava

**SvO<sub>2</sub>** oxygen saturation of hemoglobin in mixed-venous blood

supp. suppository

**SVR** systemic vascular resistance

**SVT** supraventricular tachycardia

**sx** symptoms; surgery

## **T**

**T** temperature; thoracic

**T<sub>3</sub>** iodothyronine

**T<sub>4</sub>** thyroxine

**T & A** tonsillectomy and adenoidectomy

**TAH** total abdominal hysterectomy

**TB** tuberculosis

TBSA total body surface area

**TEE** transesophageal echocardiography

TEF transesophageal fistula

TENS transcutaneous electrical nerve stimulation

**THA** total hip arthroplasty

**THR** total hip replacement

**TIA** transient ischemic attack

TIBC total iron binding capacity

**tid** three times a day

tin three times a night

**TKA** total knee arthroplasty

**TKR** total knee replacement

**TMJ** temporomandibular joint

**TOF** train of four; Tetralogy of Fallot

**TPN** total parenteral nutrition

**TR** tricuspid (valve) regurgitation

**TSH** thyroid stimulating hormone

TUNA transurethral needle ablation

**TURB** transurethral resection of the bladder

**TURP** transurethral resection of prostate

**TVH** total vaginal hysterectomy

**Tx** treatment

**T & C** type and crossmatch

## U

**U unit**

**UA urinalysis**

UCG urinary chorionic gonadotropins

**UE upper extremity**

UGI upper gastrointestinal

**UO urine output**

**URI upper respiratory infection**

**U/S ultrasound**

**UTI urinary tract infection**

UUN urine, urea, nitrogen

## V

**V<sub>T</sub> tidal volume**

**VAE venous air embolism**

**VATS video assisted thoracoscopic surgery**

VC vital capacity

VCU voiding cystourethrogram

**VD venereal disease**

V<sub>D</sub> volume of distribution

V<sub>D</sub>/V<sub>T</sub> dead space-to-tidal volume ratio

VDRL venereal disease research lab/lab report)

VHD valvular heart disease

VLBW very low birth weight

VLDL very low density lipoprotein

**VMA vanillylmandelic acid**

**V-P ventricular-peritoneal**

**V/Q ventilation-perfusion ratio**

**VS vital signs**

**VSD ventricular septal defect**

**VSS vital signs stable**

**V-Tach ventricular tachycardia**

## W

**WBC white blood cells**

**wk week**

**WNL within normal limits**

**WMA wall motion abnormality**

**WPW Wolff-Parkinson-White (syndrome)**

wt. weight

**w/u work up**

## X, Y, & Z

x times

XR X-ray

yo year(s) old

Zn zinc

## SYMBOLS

| approximately

@ at

⇒ change

¥ check

Π decrease, deficiency, depressed, diminished, inferior (position),  $\theta$  degree

/ divided by; per

= equals

∨ increase, elevated, enlarged, rising, superior (position), upper - negative

# number or pounds

• none, nothing

1 $\theta$  primary

2 $\theta$  secondary

3 $\theta$  tertiary

c with

s without

p after

. decimal [Never use trailing zero (1.0mg) or leading decimal (.1mg)]

## NORMAL LAB VALUES

NA 135-145	Cl 95-105	BUN 7-24	Glu 60-120
K 3.5-5.1	CO <sub>2</sub> 22-28	Cr .7-1.4	

(Basic Metabolic Profile BMP- Chem-7)

HGB 10-14 f	WBC 4-10	Plt 145-450
		HCT 30-50

(Complete Blood Count - CBC)

Ca 6-8-10	Mg 1.5-2.5
Phos	
	3.5-4.5

Renal Diagram



NOVA SOUTHEASTERN  
UNIVERSITY

Total Cholesterol <200	CRP<3
Tryglycerides <200	Tropomin <4
LDL<150	CK-MB <5
HDL>50	CK-Total <50

Cardiac Diagram

Pt 10-13	INR 1-2
Ptt 30-45	

Coagulation Fishbone

Ammonia 10-50	Albumin 3.4-5.6	Conj Bili .1-.4
AST- 10-40	Total Bili .3-1.1	ALT- 10-50
Amylase 20-160	APhos 20-160	Lipase 20-160

Liver Diagram

A	PH 7.35-7.45	B
		A
B	PCO <sub>2</sub> 35-45 Respiratory	A
		B
A	HCO <sub>3</sub> 22-28 Metabolic	B
		A

Arterial Blood Gas

## **MEDICAL JARGON**

### **A-line (n.)**

Refers to the words “arterial line” which is a catheter inserted into an artery usually to monitor pressure and waveforms.

Ex. “*He has an **a-line** in his right radial artery.*”

### **Amnio (n.)**

This is a shortening of the word “amniocentesis” where the obstetrician samples the amniotic fluid through the abdominal wall with a biopsy needle.

Ex. “*her **amnio** was negative.*”

### **Bili (n.)**

A shortening of the word “bilirubin” which is a yellow bile pigment resulting from the breakdown of hemoglobin.

Ex. “*This patient’s total **bili** is up.*”

### **Blue 100 (n.)** (variants; Code Blue, Dr. Blue)

Ex. “***Blue 100, emergency room, Blue 100, emergency room, Blue 100, emergency room***”

A general hospital announcement to all medical staff that there is a life threatening medical emergency and usually involves cardiac resuscitation. The hospital operator repeats the phrase three times and the location of the emergency. Every hospital has its own term for this situation.

### **bleeder (n.)**

Usually refers to an arteriole that has been severed and is pumping blood into the surgical site.

Ex. “*Nurse, can you hand me a stitch, I have a small **bleeder** here.*”

### **blower (n.)**

Refers to a ventilator.

Ex. “*After we intubate the patient, let’s put him on the **blower.***”

Can also refer to a carbon dioxide blowing instrument used in cardiac surgery.

Ex. “*Turn the **blower** on so I can get rid of some of this blood.*”

### **bovie (n.)**

Refers to any electrocautery device used in the operating room to cauterize wounds to staunch bleeding or oozing from capillaries or arterioles. The Bovie machines were the first widely available commercial electrocautery devices.

Ex. “*Nurse, can you hand me the **bovie**, I have some bleeding here.*”

**break (v.)**

The process of relieving an acute symptom that is continuous.

Ex. *“The patient has a laryngospasm, so I’m applying some positive pressure to **break** the spasm.”* **bug juice (n.)**

Refers to antibiotic solution.

Ex. *“I need some **bug juice** to rinse out this wound.”*

**cabbage (n.)**

Ex. *“This patient had a **cabbage** done 4 years ago.”*

A play on phonetic structure of “CABG” which is the abbreviation for coronary artery bypass graft.

**cat scan (n.)**

Refers to the radiologic technique known as **Computerized Axial Tomography**. Ex. *“The patient has to go for a **CAT scan** first before they come down to the operating room.”*

**clamp (n., v.)**

Refers to a surgical instrument shaped like scissors, however used to compress a blood vessel or other anatomic structure. Common example of such an instrument is a “hemostat”

Ex. (n.) *“Nurse give me a **clamp**, I have a bleeder.”* (v.) *“I’m going to **clamp** the aorta.”* **close (v.)**

The act of closing the wound with suture or staples.

Ex. *“We’re almost done. We’ll **close** in about 10 min.”*

**code (n.,v.)**

Ex. (n.) *“There is a **code** in progress down the hall. (v.) If this patient’s blood pressure goes down he may **code**.”* (adj.)

Refers to a medical emergency in which a designated team responds. Usually involves a cardiac resuscitation for cardiac arrest or irregular rhythm.

**Code Blue (n.)**

See “**Blue 100**”

**crit (n.)**

Refers to percentage of red blood cells per 100cc of whole blood sampled from the patient. The term is a shortening of the term **hematocrit**.

Ex. “*The patient has lost 500cc of blood. Let's get a crit.*”

### **Echo (n.)**

A shortened term for the word “echocardiogram” which is an ultrasonic evaluation of heart function.

Ex. “*The patient's echo showed damage to the left ventricle.*”

### **epi (n.)**

The term is a shortening of the term **epinephrine**.

Ex. *The patient's pressure is down. Give them 100 micrograms of epi.*”

### **foley (n.)**

A shortened phrase for **Foley** catheter. A tube that is inserted through the urethra to drain the bladder.

Ex. “*The patient had a foley placed last night.*”

### **fluoro (n. or v.)**

A shortened form of **fluoroscope or fluoroscopy**. A form of continuous x-ray for diagnostic and procedural assistance.

Ex. “*they are bringing in a flouro (n.) to see where the fracture is. They will fluoro (v.) the leg in two places.*”

### **gas (n.)**

Refers to an arterial blood **gas** test.

Ex. “*The patient's lungs sound bad. Let's get a gas and see what the oxygen level is in his blood.*”

### **glue (n.,v.)**

Refers to an adhesive, methylmethacrylate that is used primarily by orthopedic surgeons to fix artificial joints to the supporting bones. This bone(s) is usually the femur and/or tibia. Placement of this substance sometimes has vasoactive effects on the circulation.

Ex. (n.) “*We are putting the glue into the femoral shaft now.*”

Ex. (v.) “*We are going to glue the artificial hip to the femur now.*”

### **K (n.)**

Refers to the serum electrolyte potassium whose chemical symbol is K.

Ex. “*The EKG waveform looks odd. Let's draw some blood and see what the K is.*”

## **lido (n.)**

A shortening of the drug name **lidocaine**.

Ex. “*The patient has premature ventricular contractions. Give 100 mg. of lido.*”

## **lines (n.)**

Refers to tubing used in intravenous administration and monitoring sets or cables used with physiologic monitors.

Ex. “*Watch how you transfer the patient onto the bed. You may get her lines tangled.*”

## **lytes (n.)**

A shortening of the term **electrolytes** referring to compounds found in the blood serum.

Ex. “*This patient has renal disease. Make sure we get lytes on him before we induce anesthesia.*” **mayo**  
**(n.)**

Refers to an equipment stand used by scrub nurses to hold instruments that can be positioned over the patient.

Ex. “*I'm raising the OR table. Watch your mayo!*”

## **mics (n.)**

The word is pronounced “mikes.” This is a shortening of the word **micrograms**.

Ex. “*Give the patient 100 mics of neosynephrine.*”

## **neo (n.)**

Is a shortened form of **neosynephrine**.

Ex. “*Give the patient a 100 mics of neo.*”

## **neuro (n.)**

A shortening of the term **neurosurgery** and refers to that surgical specialty.

Ex. “*The neuro docs haven't evaluated the spine yet.*”

## **orthopods (n.)**

Refers to orthopedic surgeons.

Ex. “*The orthopods want this patient positioned on his left side up.*”

## **on/off the pump**

Refers to a patient being placed or taken off of an extracorporeal bypass machine that is used to bypass the heart and lungs during cardiac surgery.

Ex. "We'll be going on the pump in just a couple of minutes."

### **penrose (n.)**

Refers to a surgical item that is placed in wounds to drain them postoperatively. It is a tubelike device that is very pliable and usually made of latex. It is also used as a tourniquet when starting intravenous lines.

Ex. "Is there a **penrose** on the cart? I need to start an i.v."

### **pledge solution (n.)** pronounced "pleeg"

A solution used in cardiac bypass procedures, which is infused into the coronary arteries to disrupt the electrical activity of the heart and induce cardiac arrest. Administered by the perfusionist operating the bypass apparatus.

Ex. "I have infused 200cc of **pledge solution** and myocardial temperature is 32.1°." **relax**

### **(v., adv.)**

Term that usually refers to paralyzing a patient temporarily by using drugs during an operation.

Ex.(v.) "The surgeon is probably going to want us to **relax** the patient for this appendectomy." Ex  
(adv.) "Use the twitch monitor to see if the patient is **relaxed**."

### **road trip (n.)**

Used to define anesthetic procedures done outside the operating room.

Ex. "We're going on a **road trip** to cardiac cath lab for an AICD evaluation."

### **roc (n.)**

Shortening of the drug **rocuronium**.

Ex. "I just gave the patient 10 mg. of **roc** because the patient moved."

### **rod (n., v.)**

Used to describe any number of orthopedic devices that primarily are inserted into the shaft of the damaged bone.

Ex. (n.) "We will use a **rod** to repair that fractured femur."

Ex. (v.) "We'll be **rodding** this femur fracture."

### **sat (n.)**

Shortening of the term **saturation** used in blood gas analysis. Saturation refers to the percent of hemoglobin that has oxygen bound to the molecule.

Ex. "The patient's **sat** is only 91%. Let's increase the oxygen going to the patient." **scope**

### **(n.,v.)**

This term has several meanings. It is a shortening of the drug name **scopolamine**. It also refers to any instrument that is used to visualize internal anatomy, such as a **laryngoscope**. It is also used as a verb in defining an action that uses an instrument to visualize internal anatomy.

Ex. (n.) *“Give the patient .2 mg. of **scope**.”*

Ex. (n.) *“Hand me the **scope** so I can intubate this patient.”*

Ex. (v) *“I’m going to **scope** this patient first and see if we can intubate.”*

### **squirt (v., n.)**

Used by surgeons and other physicians that use vascular catheters. Typically a dye solution that is

Ex. (v.) *“I’m going to **squirt** the aorta now.”*

Ex. (n.) *“The patient had a **squirt** that showed a cerebral aneurysm.”*

### **squirter (n.)**

A word used to indicate a laceration of a large arterial blood vessel that sends a pulsating stream of blood into the surgical field.

Ex. (n.) *“Nurse, hand me a clamp. I have a **squirter** here.”*

### **stat (v.)**

An expression that means to do something immediately. Usually follows a request or order.

Ex. (v.) *“Give the patient 100 mg. of succinylcholine. STAT!”*

### **stitch (n.,v.)**

Used to denote a surgical suture or the act of suturing.

Ex. (n.) *“Don’t tie the **stitch** too tight or it will break.”*

Ex. (v.) *“Let’s get this wound **stitched**.”*

### **Sux (n.)**

A shortened form of a drug named **succinylcholine**.

Ex. (n.) *“Give the patient 100mg. of **Sux**.”*

### **Swan (n.,v.)**

A shortened form of the name of a monitoring cardiac catheter called a **Swan-Ganz** catheter. Also used as a verb to describe the insertion of the **Swan-Ganz** catheter.

Ex. (n.) *“The patient came from the intensive care unit and has a **Swan** in place.”* Ex. (v.) *“The surgeons are going to **Swan** the patient before they bring him to the OR.”*

### **wedge (n.,v.)**

A term used for the reading acquired from Swan-Ganz catheter after it is properly positioned in the pulmonary artery. It is a term used to describe the positioning of the Swan-Ganz catheter to obtain a reading.

Ex. (n.) “The patient’s **wedge** was 15.”

Ex. (v.) “The waveform indicates that we have a **wedged** catheter.”

## **Dangerous Abbreviations**

### ***Dangerous Abbreviations Or Dose Designations – Not Recommended***

<b>Abbreviation /Dose Expression</b>	<b>Intended Meaning</b>	<b>Misinterpretation</b>	<b>Correction</b>
Apothecary symbols AU	dram minim	Misunderstood or misread (symbol for dram misread for “3” and minim misread as “mL”).	Use the metric system.
	D/C	aurio uterque (each ear)	Mistaken for OU (oculouterque—each eye). Don’t use this abbreviation.
Drug names ARA°A AZT	discharge discontinue	Premature discontinuation of medications when D/C (intended to mean “discharge”) has been misinterpreted as “discontinued” when followed by a list of drugs.	Use “discharge” and “discontinue.”
	CPZ		Use the complete spelling for drug names.
DPT	vidarabine	cytarabineARA°C	
	zidovudine (RETROVIR)	azathioprine	
HCl	COMPAZINE (prochlorperazine )	chlorpromazine	
HCT			
HCTZ	DEMEROL PHENERGAN THORAZINE	diphtheria-pertussis-tetanus (vaccine)	
MgSO4			
MSO4	hydrochloric acid	potassium chloride (The “H” is misinterpreted as “K.”)	
MTX			
TAC	hydrocortisone	hydrochlorothiazide	

	hydrochlorothiazide	hydrocortisone (seen as HCT250 mg)	
	magnesium sulfate	morphine sulfate	
	morphine sulfate	magnesium sulfate	
		mitoxantrone	
	triamcinolone	tetracaine, ADRENALIN, cocaine	

ZnSO4	zinc sulfate	morphine sulfate	
Stemmed names			
“Nitro” drip	infusion	sodium nitroprusside infusion	
“Norflox”	norfloxacin	NORFLEX	
m g	microgram	Mistaken for “mg” when handwritten.	Use “mcg.”
o.d. or OD	once daily	Misinterpreted as “right eye” (OD—oculus dexter) and administration of oral medications in the eye.	Use “daily.”
TIW or			
tiw per	three times a week.	Mistaken as “three times a day.”	Don’t use this abbreviation.
os			
q.d. or QD	orally	The “os” can be mistaken for “left eye.”	Use “PO,” “by mouth,” or “orally.”
qn	every day	Mistaken as q.i.d., especially if the period after the “q” or the tail of the “q” is misunderstood as an “i.”	Use “daily” or “every day.”
qhs			
q6PM, etc.	nightly or at bedtime	Misinterpreted as “qh” (every hour).	Use “nightly.”
q.o.d. or QOD	nightly at bedtime	Misread as every hour.	Use “nightly.”
sub q			
	every evening at 6 PM	Misread as every six hours.	Use 6 PM “nightly.”
SC	every other day	Misinterpreted as “q.d.” (daily) or “q.i.d. (four times daily) if the “o” is poorly written.	Use “every other day.”

U or u		s The “q” has been mistaken for “every” (e.g., one heparin dose ordered “sub q 2 hours before surgery” misunderstood as every 2 hours before surgery).	Use “subcut.” or write “subcutaneous.”
IU		s Mistaken for SL (sublingual).	Use “subcut.” or write “subcutaneous.”
cc	unit	Read as a zero (0) or a four (4), causing a 10fold overdose or greater (4U seen as “40” or 4u seen as 44”).	“Unit” has no acceptable abbreviation. Use “unit.”
x3d			
BT	international unit	Misread as IV (intravenous).	Use “units.”
ss	cubic centimeters	Misread as “U” (units).	Use “mL.”
		s Mistaken for “three doses.”	Use “for three days.”
	bedtime	Mistaken as “BID” (twice daily).	Use “hs.”
		Mistaken for “55.”	Spell out “sliding

> and < / (slash m	(insulin) or ½ (apothecary )		scale.” Use “one half” or use “½.”
Name letters and dose numbers run together (e.g., Inderal40 mg) Zero after decimal point (1.0)	greater than and less than	Mistakenly used opposite of intended.	Use “greater than” or “less than.”
	doses or indicates “per”	Misunderstood as the number 1 (“25 unit/10 units” read as “110” units.	Do not use a slash mark to separate doses. Use “per.”
	Inderal 40 mg	Misread as Inderal 140 mg.	Always use space between drug name, dose and unit of measure.
No zero before	1 mg	Misread as 10 mg if the decimal point is not seen.	zeros for doses expressed in whole numbers.

decimal dose (.5 mg)	0.5 mg	Misread as 5 mg.	Always use zero before a decimal when the dose is less than a whole unit.
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## Anesthesia Apparatus Checkout Recommendations, 1993

This checkout, or a reasonable equivalent, should be conducted before administration of anesthesia. These recommendations are only valid for an anesthesia system that conforms to current and relevant standards and includes an ascending bellows ventilator and at least the following monitors: capnograph, pulse oximeter, oxygen analyzer, respiratory volume monitor (spirometer) and breathing system pressure monitor with high and low pressure alarms. This is a guideline which users are encouraged to modify to accommodate differences in equipment design and variations in local clinical practice. Such local modifications should have appropriate peer review. Users should refer to the operator's manual for the manufacturer's specific procedures and precautions, especially the manufacturer's low pressure leak test (step #5).

### *Emergency Ventilation Equipment*

#### \* 1. Verify Backup Ventilation Equipment is Available & Functioning

##### *High Pressure System*

#### \* 2. Check Oxygen Cylinder Supply

- a. Open  $\text{O}_2$  cylinder and verify at least half full (about 1000 psi).
- b. Close cylinder.

#### \* 3. Check Central Pipeline Supplies

- a. Check that hoses are connected and pipeline gauges read about 50 psi.

##### *Low Pressure System*

#### \* 4. Check Initial Status of Low Pressure System

- a. Close flow control valves and turn vaporizers off.
- b. Check fill level and tighten vaporizers' filler caps.

#### \* 5. Perform Leak Check of Machine Low Pressure System

- a. Verify that the machine master switch and flow control valves are OFF.
- b. Attach "Suction Bulb" to common Fresh gas outlet.
- c. Squeeze bulb repeatedly until fully collapsed.
- d. Verify bulb stays *fully* collapsed for at least 10 seconds.
- e. Open one vaporizer at a time and repeat 'c' and 'd' as above.
- f. Remove suction bulb, and reconnect fresh gas hose.

#### \* 6. Turn On Machine Master Switch

and all other necessary electrical equipment.

#### \* 7. Test Flowmeters

- a. Adjust flow of all gases through their full range, checking for smooth operation of floats and undamaged flowbutes.
- b. Attempt to create a hypoxic  $\text{N}_2\text{O}$  mixture and verify correct changes in flow and/or alarm.

##### *Scavenging System*

#### \* 8. Adjust and Check Scavenging System

- a. Ensure proper connections between the scavenging system and both APL (pop-off) valve and ventilator relief valve.
- b. Adjust waste gas vacuum (if possible).
- c. Fully open APL valve and occlude Y-pTee.
- d. With minimum  $\text{O}_2$  flow, allow scavenger reservoir bag to collapse completely and verify that absorber pressure gauge reads about zero.
- e. With the  $\text{O}_2$  flush activated allow the scavenger reservoir bag to distend fully, and then verify that absorber pressure gauge reads  $< 10 \text{ cm H}_2\text{O}$ .

##### *Breathing System*

#### \* 9. Calibrate $\text{O}_2$ Monitor

- a. Ensure monitor reads 21% in room air.
- b. Verify low  $\text{O}_2$  alarm is enabled and functioning.
- c. Reinstall sensor in circuit and flush breathing system with  $\text{O}_2$ .
- d. Verify that monitor now reads greater than 90%.

#### 10. Check Initial Status of Breathing System

- a. Set selector switch to "Bag" mode.
- b. Check that breathing circuit is complete, undamaged and unobstructed.
- c. Verify that  $\text{C}_\text{O}_2$  absorbent is adequate.
- d. Install breathing circuit accessory equipment (e.g. humidifier, PEEP valve) to be used during the case.

#### 11. Perform Leak Check of the Breathing System

- a. Set all gas flows to zero (or minimum).
- b. Close APL (pop-off) valve and occlude Y-piece.
- c. Pressurize breathing system to about 30 cm  $\text{H}_2\text{O}$  with  $\text{O}_2$ , flush.
- d. Ensure that pressure remains fixed for at least 10 seconds.
- e. Open APL (Pop-off) valve and ensure that pressure decreases.

##### *Manual and Automatic Ventilation Systems*

#### 12. Test Ventilation Systems and Unidirectional Valves

- a. Place a second breathing bag on Y-piece.
- b. Set appropriate ventilator parameters for next patient.
- c. Switch to automatic ventilation (Ventilator) mode.
- d. Fill bellows and breathing bag with  $\text{O}_2$ , flush and then turn ventilator ON.
- e. Set  $\text{O}_2$  flow to minimum, other gas flows to zero.
- f. Verify that during inspiration bellows delivers appropriate tidal volume and that during expiration bellows fills completely.
- g. Set fresh gas flow to about 5 L/min.
- h. Verify that the ventilator bellows and simulated lungs fill and empty appropriately without sustained pressure at end expiration.
- i. Check for proper action of unidirectional valves.
- j. Exercise breathing circuit accessories to ensure proper function.
- k. Turn ventilator OFF and switch to manual ventilation (Bag/APL) mode.
- l. Ventilate manually and assure inflation and deflation of artificial lungs and appropriate feel of system resistance and compliance.
- m. Remove second breathing bag from Y-piece.

##### *Monitors*

#### 13. Check, Calibrate and/or Set Alarm Limits of all Monitors

Capnometer      Pulse Oximeter  
 Oxygen Analyzer      Respiratory Volume Monitor (Spirometer)  
 Pressure Monitor with High and Low Airway Alarms

##### *Final Position*

#### 14. Check Final Status of Machine

- a. Vaporizers off
- b. AFL valve open
- c. Selector switch to "Bag"
- d. All flowmeters to zero
- e. Patient suction level adequate
- f. Breathing system ready to use

\* If an anesthesia provider uses the same machine in successive cases, these steps need not be repeated or may be abbreviated after the initial checkout.

# OPERATING ROOM & TABLETOP SETUP PROTOCOL

## Nova Southeastern University AA Program

Anesthesia care providers must follow an OR setup protocol which is consistent for all clinical cases. Consistent setups minimize the potential for errors in practice. Every hospital follows a protocol which is unique to that institution. However, there are standards for setup which this program requires its students to uphold. The following protocol is consistent with the accepted standard of care for the majority of the hospitals that you will be rotating with. This protocol WILL be followed by ALL students at ALL rotations and may only be altered if the deviation is discussed with the anesthesia team members prior to actual room setup.

### I. Tabletop - The following items should be present on the anesthesia machine tabletop for ALL cases (general anesthesia or MAC) unless specified otherwise.

#### A. Airway Equipment

1. an appropriately sized and functional **laryngoscope** blade and handle
2. one (1) appropriately sized **endotracheal (ETT)** tube with cuff checked for patency
  - a. **stylet** inserted into the ETT
  - b. two (2) **ETTs** (one size below and one size above the chosen size) in the top drawer of the anesthesia machine (formula for pediatric OETT sizes==>[age(y) + 16]/4)
3. a **tongue depressor**
4. two (2) appropriately sized **oral airways**

5. The use of a **precordial stethoscope** is an accepted standard of care and it should be used at all times for **intraoperative monitoring and transport to PACU** unless specifically directed otherwise by a member of the team.

#### B. Pharmaceuticals

1. Emergency Drugs
  - a. syringe labeled **atropine**, with drug drawn up
    - i. 1cc syringe for a patient **under 1 year** of age
    - ii. 3 cc syringe for a patient **over 1 year** of age
  - b. syringe labeled **succinylcholine**, with drug drawn up
    - i. 1cc syringe for a patient **under 1 year** of age
    - ii. 3 cc syringe for a patient **over 1 year** of age but **under 12 years** of age
    - iii. 10 cc syringe for a patient **over 12 years** of age
    - c. one type of **vasopressor** drawn up (i.e. Phenylephrine, ephedrine)
    - d. one 5cc syringe of **2% lidocaine**
2. Induction Agents
  - a. one (1) syringe of **1% propofol** on table top
  - i. **one (20) cc** syringe for patients **over age 5 years**
  - ii. **five (5) cc** syringe for patients **under age 5 years**
3. Maintenance Agents
  - a. a vial of a **non-depolarizing muscle relaxant** (i.e. rocuronium, vecuronium, cis-atracurium, etc.) with labeled syringe on tabletop but not drawn up unless confirmed by staff
  - b. a labeled syringe for **midazolam**
  - c. a labeled syringe for a **narcotic** (fentanyl, sufentanil, etc.)

**II. The Anesthesia Machine - The following items on the machine should be checked prior to the first case of the day and prior to each subsequent case when appropriate.**

- A. The availability and integrity of patient **suction** must be verified.
- B. Check **O<sub>2</sub> cylinder** supply.
- C. Check **O<sub>2</sub> pipeline** supply.
- D. Check **vaporizer** fill level.
- E. Calibrate **O<sub>2</sub> monitor** sensor to room air.
- F. Check **flowmeters**.
- G. Install and check the integrity of an appropriately sized **breathing circuit**.
- H. Place an appropriately sized **mask** on the circuit.
- I. Verify that the **CO<sub>2</sub> absorber** (Baralime) is adequate.
- J. Verify the integrity of the **APL (pop-off) valve** and the **scavenging system**.
- K. Test the integrity of the **ventilator**.
- L. Test the integrity of **monitors** (capnograph, pulse oximeter, ECG, temperature probe, etc.) and position probes and leads for quick placement on the patient.
  1. The use of a **precordial stethoscope** is an accepted standard of care and it should be used at all times for **intraoperative monitoring and transport to PACU** unless specifically directed otherwise by a member of the team.

**III. Intravenous Therapy - The following items should be set up in the OR prior to the start of each case.**

**A. Intravenous Fluid**

1. **Lactated Ringers** for most healthy patients
2. **0.9% saline** (normal saline) or **5% dextrose in water** (D5W) for renal failure patients
3. fluid choice for neonates as per attending anesthesiologist's request

**B. Tubing Setup**

1. **60 drop/cc** (minidrip) setup for patients **under ten** (10) years of age
2. **10 drop/cc** (maxidrip) setup for patients **over ten** (10) years of age
3. **stopcock** in-line if a moderate chance of blood transfusion exists
4. **anesthesia extension set** if using stopcock or if IV site is not easily accessible
5. the fluid should be completely **flushed** through the tubing

**C. Supply Bin**

1. A bin containing the following items should be stocked and in the room prior to the start of each case:

- a. at least two (2) of each appropriately sized **IV catheter**
- b. **1% lidocaine** in a one (1) or a three (3) cc syringe and a 26 g or smaller needle for local infiltration
- c. **4" x 4" gauze** sponges for clean up
- d. **tape**
- e. **alcohol** wipes
- f. **18 g needles** for skin hole
- g. **tourniquet**

**The above list is considered standard and it should be followed exactly unless a change has been discussed with the anesthesia team members. Unauthorized deviation from this protocol will be considered unacceptable and will be managed accordingly.**