Commonly Used Abbreviations

AA - Alcoholics Anonymous; African American
A-a - Alveolar Arterial gradient
AAA - Abdominal Aortic Aneurysm
AB - Antibody; also Abortion
ABD - Abdomen
ABG - Arterial Blood Gas
ABI - Ankle Brachial Index
ABPA - Allergic Broncho Pulmonary Aspergillosis
ABX - Antibiotics
AC - Anterior Chamber; also Acromio-Clavicular and Before Meals
ACE-I - Angiotensin Converting Enzyme Inhibitor
ACL - Anterior Cruciate Ligament
ACLS - Advanced Cardiac Life Support
ACS - Acute Coronary Syndrome
AD LIB - As Desired
ADA - American Diabetes Association
ADD - Attention Deficit Disorder
ADE - Adverse Drug Effect
ADHD - Attention Deficit Hyperactivity Disorder
ADL - Activities of Daily Living
ADR - Adverse Drug Reaction
ADTP - Alcohol and Drug Treatment Program
AED - Automatic External Defibrillator; Anti-Epileptic Drug
AF - Atrial Fibrillation; Afebrile
AB - Antibody; also Abortion
AFP - Alpha Fetoprotein
AGN - Antigen
AI - Aortic Insufficiency
AIDS - Acquired Immuno-Deficiency Syndrome
AIIN - Acute Interstitial Nephritis
AK - Actinic Keratosis
AKA - Above Knee Amputation
ALL - Allergies; also Acute Lymphocytic Leukemia
ALS - Amyotrophic Lateral Sclerosis; also Advanced Life Support
AMA - Against Medical Advice; American Medical Association
AMD - Aging Macular Degeneration
AMI - Acute Myocardial Infarction; Anterior Myocardial Infarction
A-MIBI - Adenosine MIBI
AML - Acute Myelogenous Leukemia
AMS - Acute Mountain Sickness
ANC - Absolute Neutrophil Count
AND - Axillary Node Dissection
ANGIO - Angiography
A&O - Alert And Oriented
BRAO - Branch Retinal Artery Occlusion
BRB - Bright Red Blood
BRBPR - Bright Red Blood Per Rectum
BRP - Bathroom Privileges
BRVO - Branch Retinal Vein Occlusion
BS - Bowel Sounds; also Breath Sounds and Blood Sugar
BSA - Body Surface Area
BUN - Blood Urea Nitrogen
BX - Biopsy
C - With
CABG - Coronary Artery By-Pass Graft
CAD - Coronary Artery Disease
CAP - Prostate Cancer; Community Acquired Pneumonia
CARDS - Cardiology
CAT - Cataract
CATH - Catheterization
CB - Cerebellar
C/B - Complicated By
CBC - Complete Blood Count
CBD - Common Bile Duct; Closed Bag Drainage
CBI - Continuous Bladder Irrigation
CC - Chief Complaint
CCB - Calcium Channel Blocker
CCC - Central Corneal Clouding
CCK - Cholycystectomy
CCE - Clubbing, Cyanosis, Edema
C/D - Cup to Disk ratio
CDI - Clean Dry Intact
CDIF - Clostridium Difficile
CEA - Carcinoembryonic Antigen
Chemo - Chemotherapy
CHI - Closed Head Injury
CHF - Congestive Heart Failure
Choly - Cholycystectomy
CI - Cardiac Index
CIC - Clean Intermittent Catheterization
CIDP - Chronic Inflammatory Demyelinating Polyneuropathy
CK - Creatinine Kinase
CL - Chloride
CLL - Chronic Lymphocytic Leukemia
CM - Cardiomegaly
CML - Chronic Myelogenous Leukemia
CMP - Cardiomyopathy
CMR - Chief Medical Resident
CMT - Cervical Motion Tenderness; Charcot Marie Tooth
CMV - Cyto-Megalo Virus
CN - Cranial Nerves
CNIS - Carotid Non-Invasive Study
CNS - Central Nervous System
CO - Cardiac Output
C/O - Complains Of
COPD - Chronic Obstructive Pulmonary Disease
COX 2 - Cyclooxygenase 2
CPAP - Continuous Positive Airway Pressure
CPP - Cerebral Perfusion Pressure
CPPD - Calcium Pyrophosphate Disease
CPR - Cardiopulmonary Resuscitation
CPS - Child Protective Services
CPU - Chest Pain Unit
CRAO - Central Retinal Artery Occlusion
CRFs - Cardiac Risk Factors
CRI - Chronic Renal Insufficiency
CRP - C Reactive Protein
CRVO - Central Retinal Vein Occlusion
CSF - Cerebral Spinal Fluid
CT - Cat Scan; also Chest Tube and Cardio-Thoracic
CTA - Clear To Auscultation
CVA - Cerebral Vascular Accident
CVL - Central Venous Line
CVP - Central Venous Pressure
C/W - Consistent With; Compared With
CX - Culture
CXR - Chest X-Ray
C/W - Consistent With

D - Diarrhea; also Disk
D5W - Dextrose 5% in Water
DB- Direct Bilirubin
DBP - Diastolic Blood Pressure
DC - Discharge; Discontinue; Doctor of Chiropractics
D&C - Dilatation and Curettage
DCIS - Ductal Carcinoma In Situ
DDX - Differential Diagnosis
DF - Dorsiflexion
DFA - Direct Fluorescent Antibody
DFE - Dilated Fundus Examination
DI - Diabetes Insipidus; Detrusor Instability
DIC - Disseminated Intravascular Coagulopathy
DIF - Differential
DIP - Distal Inter-Phalangeal
DJD - Degenerative Joint Disease
ES - Epidural Steroids
ESI - Epidural Steroid Injection
ESLD - End Stage Liver Disease
ESR - Erythrocyte Sedimentation Rate
ESRD - End Stage Renal Disease
ESWL - Extracorporeal Shock Wave Lithotripsy
ETOH - Alcohol
ETT - Exercise Tolerance Test; also Endotracheal Tube
EWCL - Extended Wear Contact Lens
EX LAP - Exploratory Laparotomy
EX FIX - External Fixation
EXT - Extremities

FB - Foreign Body
F/B - Followed By
FBS - Fasting Blood Sugar
FE - Iron
FEM - Femoral
FENA - Fractional Excretion of Sodium
FEV1 - Forced Expiratory Volume 1 Second
FFP - Fresh Frozen Plasma
Flex Sig - Flexible Sigmoidoscopy
FLU - Influenza
FMG - Foreign Medical Graduate
F&N - Febrile and Neutropenic
FNA - Fine Needle Aspiration
FOOSH - Fall On Outstretched Hand
FOS - Full of Stool; Force Of Stream
FP - Family Practitioner
FRC - Functional Residual Capacity
FSG - Finger Stick Glucose
FSH - Follicle Stimulating Hormone
FTT - Failure To Thrive
F/U - Follow-Up
FUO - Fever of Unknown Origin
FX - Fracture

G - Guiac (followed by + or -)
GA - General Anesthesia
GAD - Generalized Anxiety Disorder
GAS - Group A Strep; Guaiac All Stools
GB - Gall Bladder; also Guillain Barre
GBM - Glioblastoma Multiforme
GBS - Group B Strep
GC - Gonorrhea
GCS - Glasgow Coma Scale
GCSF - Granulocyte Colony Stimulating Factor
GERD - Gastroesophageal Reflux
GERI - Geriatrics
GET - General Endotracheal
GI - Gastrointestinal
GIB - Gastrointestinal Bleeding
GLC - Glaucoma
GMR - Gallups, Murmurs, Rubs
GN - Glomerulonephritis
GNR - Gram Negative Rod
GOO - Gastric Outlet Obstruction
GP - General Practitioner
G#P# - Gravida # Para #
GP 2b/3a - Glycoprotein 2b/3a Inhibitor
GPC - Gram Positive Coccus
GS - Gram Stain
GSW - Gun Shot Wound
GTT - Glucose Tolerance Test
G-Tube - Gastric Feeding Tube
GU - Genito-Urinary; also Gastric Ulcer
GVHD - Graft Versus Host Disease
H FLU - Haemophilus Influenza
HA - Headache
HAART - Highly Active Anti-Retroviral Therapy
HAC E - High Altitude Cerebral Edema
HAPE - High Altitude Pulmonary Edema
H2 - Histamine 2
HCC - Hepatocellular Carcinoma
HCG - Human Chorionic Gonadotropin
HCL - Hard Contact Lens
HCM - Health Care Maintenance
HCT - Hematocrit
HCV - Hepatitis C Virus
HD - Hemodialysis
HDL - High Density Lipoprotein
HEENT - Head, Ears, Eyes, Nose, Throat
HELLP - Hemolysis Elevated Liver tests Low Platelets
HEME/ONC - Hematology/Oncology
HGB - Hemoglobin
HH - Hiatal Hernia
H&H - Hemoglobin and Hematocrit
HI - Homicidal Ideation
HIB - Haemophilus Influenza B vaccine
HIT - Heparin Induced Thrombocytopenia
HIV - Human Immunodeficiency Virus
HL - Heparin Lock  
HOB - Head Of Bed  
HOCM - Hypertrophic Obstructive Cardiomyopathy  
HOH - Hard Of Hearing  
HONK - Hyperosmolar Non-Ketotic State  
HPI - History of Present Illness  
HPV - Human Papilloma Virus  
HR - Heart Rate  
HRT - Hormone Replacement Therapy  
HS - At Bedtime  
HSM - Holo-Systolic Murmur; also Hepato-Splenomegaly  
HSP - Henoch Shonlein Purpura  
HSV - Herpes Simplex Virus  
HTN - Hypertension  
HU - Holding Unit  
HUS - Hemolytic Uremic Syndrome  
HX - History  

I+ - With Ionic Contrast (in reference to a CAT Scan)  
I- - Without Ionic Contrast (in reference to a CAT Scan)  
IA - Intra-Articular  
IABP - Intra-Aortic Balloon Pump  
IBD - Inflammatory Bowel Disease  
IBS - Irritable Bowel Syndrome  
IBW - Ideal Body Weight  
ICD - Implantable Cardiac Defibrillator  
ICH - Intra-Cranial Hemorrhage  
ICP - Intra-Cranial Pressure  
ID - Infectious Diseases  
I&D - Incise and Drain  
IDDM - Insulin Dependent Diabetes Mellitus  
IFN - Interferon  
IH - Inguinal Hernia (usually preceded by L or R)  
IJ - Internal Jugular  
IL - Interleukin; Indirect Laryngoscopy  
ILD - Interstitial Lung Disease  
IM - Intramuscular also Intramedullary  
IMI - Inferior Myocardial Infarction  
IMP - Impression  
INR - International Normalized Ratio  
I&O - Ins and Outs  
IOL - Intra-Ocular Lens  
IOP - Intra-Ocular Pressure  
IP - Inter-Phalangeal  
IPF - Idiopathic Pulmonary Fibrosis  
IR - Interventional Radiology; Internal Rotation
IRB - Indications Risks Benefits; Institutional Review Board
IT - Intrathecal; Information Technology
ITP - Idiopathic Thrombocytopenia
IUD - Intrauterine Device
IUP - Intrauterine Pregnancy
IV - Intravenous
IVC - Inferior Vena Cava
IVDU - Intravenous Drug Use
IVF - Intravenous Fluids; also In Vitro Fertilization
IVP - Intravenous Pyelogram

JP - Jackson Pratt
J-Tube - Jejunal Feeding Tube
JVD - Jugular Venous Distention
JVP - Jugular Venous Pressure

K - Potassium
KCAL - Kilocalories
KUB - Kidneys Ureters and Bladder
KVO - Keep Vein Open

L - Left
LA - Left Atrium
LAC - Laceration
LAD - Left Anterior Descending (coronary artery); Left Axis Deviation
LAP - Laproscopic; also Laparotomy
LAR - Low Anterior Resection
LBBB - Left Bundle Branch Block
LBO - Large Bowel Obstruction
LBP - Low Back Pain
LCL - Lateral Collateral Ligament
LCX - Left Circumflex (coronary artery)
L&D - Labor and Delivery
LDH - Lactate Dehydrogenase
LDL - Low Density Lipoprotein
LE - Lower Extremity (usually preceded by R or L); Leukocyte Esterase
LENIS - Lower Extremity Non-Invasive Study
LFT - Liver Function Test
LH - Leuitinizing Hormone; Left Handed; Light Headed
LHC - Left Heart Cath
LHRH - Leuitinizing Hormone Releasing Hormone
LIMA - Left Internal Mammary Artery
LLE - Left Lower Extremity
LLL - Left Lower Lobe; Left Lower Lid
LLQ - Left Lower Quadrant
LM - Left Main Coronary Artery
LMA - Laryngeal Mask Airway
LMD - Local Medical Doctor
LMN - Lower Motor Neuron
LMP - Last Menstrual Period
LN - Lymph Node also Liquid Nitrogen
LND - Lymph Node Dissection
LOA - Lysis Of Adhesions
LOC - Loss Of Consciousness
LP - Lumbar Puncture
LPN - Licensed Practical Nurse
LR - Lactated Ringers
LS - Lumbro-Sacral
LT - Light Touch
LUE - Left Upper Extremity
LUL - Left Upper Lobe; also Left Upper Lid
LUTS - Lower Urinary Tract Symptoms
LUQ - Left Upper Quadrant
LV FXN - Left Ventricular Function
LVAD - Left Ventricular Assist Device
LVEDP - Left Ventricular End Diastolic Pressure
LVH - Left Ventricular Hypertrophy
LVN - Licensed Vocational Nurse
LMWH - Low Molecular Weight Heparin
LYTES - Electrolytes
MAC - Monitored Anesthesia Care
MCL - Medial Collateral Ligament
MCP - Metacarpal-Phalangeal
MCV - Mean Corpuscular Volume
MDRTB - Multi-Drug Resistant Tuberculosis
MEDS - Medicines
MFM - Maternal-Fetal Medicine
MI - Myocardial Infarction
MICU - Medical Intensive Care Unit
MIDCAB - Minimally Invasive Direct Coronary Artery Bypass
MM - Multiple Myeloma
M&M - Morbidity and Mortality
MMP - Multiple Medical Problems
MMR - Measles, Mumps and Rubella vaccine
MOM - Milk Of Magnesia
MR - Mitral Regurgitation
MRCP - Magnetic Resonance Cholangio Pancreatography
MRI - Magnetic Resonance Imaging
MRSA - Methicillin Resistant Staph Aureus
MS - Mental Status; also Mitral Stenosis, Multiple Sclerosis and Morphine Sulfate
MSSA - Methicillin Sensitive Staph Aureus
MTP - Metatarsal-Phalangeal
MVP - Mitral Valve Prolapse
MVR - Mitral Valve Replacement

N - Nausea
NA - Not Available; also Sodium
NAD - No Apparent Distress; No Acute Disease
NABS - Normal Active Bowel Sounds
NCAT - Normocephalic Atraumatic
NCS - Nerve Conduction Study
NEB - Nebulizer
NGT - Naso-Gastric Tube
NGU - Non-Gonococcal Urethritis
NH - Nursing Home
NHL - Non-Hodgkin's Lymphoma
NICU - Neonatal Intensive Care Unit
NIDDM - Non-Insulin Dependent Diabetes Mellitus
NIF - Negative Inspiratory Force
NKDA - No Known Drug Allergies
NMS - Neuroleptic Malignant Syndrome
NOS - Not Otherwise Specified
NP - Nurse Practitioner
NPO - Nothing By Mouth
NS - Normal Saline
NSBGP - Non-Specific Bowel Gas Pattern
NSCLCA - Non-Small Cell Lung Cancer
NSR - Normal Sinus Rhythm
NT - Non-Tender
NTD - Nothing To Do
NUCS - Nuclear Medicine
NYHA - New York Heart Association

OA - Osteoarthritis
OB - Occult Blood (followed by '+' or '-'
OCD - Obsessive Compulsive Disorder
OCP - Oral Contraceptive Pill
OD - Right Eye
OE - Otitis Externa
OLT - Orthotopic Liver Transplant
OM - Otitis Media
ON - Optic Nerve; Over Night
OOB - Out Of Bed
OP - Opening Pressure
O/P - Oropharynx
O&P - Ovum and Parasites
ORIF - Open Reduction with Internal Fixation
ORL - Oto-Rhino Laryngology
OS - Left Eye
OSA - Obstructive Sleep Apnea
OT - Occupational Therapy
OTC - Over The Counter
OTD - Out The Door
OU - Both Eyes
O/W - Otherwise

P - Pulse
P - Pending
P - After
PA - Posterior-Anterior; also Physician's Assistant
PACU - Post Anesthesia Care Unit
PAD - Peripheral Arterial Disease
PALS - Pediatric Advanced Life Support
PBC - Primary Billiary Cirrhosis
PC - After Meals
PCA - Patient Controlled Analgesia
PCI - Percutaneous Coronary Intervention
PCKD - Polycystic Kidney Disease
PCL - Posterior Cruciate Ligament
PCM - Pacemaker
PCOD - Poly-Cystic Ovarian Disease
PCP - Primary Care Physician; also Pneumocystis Pneumonia
PCR - Polymerase Chain Reaction
PCWP - Pulmonary Capillary Wedge Pressure
PD - Parkinson's Disease; also Personality Disorder and Peritoneal Dialysis
PDA - Patent Ductus Arteriosus
PE - Physical Exam; also Pulmonary Embolism
PEG - Percutaneous Endoscopic Gastrostomy
PERRL - Pupils Equal, Round, Reactive to Light
PET - Positron Emission Tomography
PF - Peak Flow; also Plantar Flexion
PFO - Patent Foramen Ovale
PFTs - Pulmonary Function Tests
PH - Pin Hole
PICC - Peripherally Inserted Central Catheter
PICU - Pediatric Intensive Care Unit
PID - Pelvic Inflammatory Disease
PIH - Pregnancy Induced Hypertension
PIP - Proximal Inter-Phalangeal
PLT - Platelets
PMD - Primary Medical Doctor
PMH - Past Medical History
PMI - Point of Maximum Impulse
PMN - Polymorphonuclear Leukocytes
PMRS - Physical Medicine and Rehabilitation Service
PN - Progress Note
PNA - Pneumonia
PNBX - Prostate Needle Biopsy
PND - Paroxysmal Nocturnal Dyspnea also Post Nasal Drip
PNS - Peripheral Nervous System
PO - By Mouth
POP - Popliteal
PP - Pin Prick
PPD - Purified Protein Derivative
PPH - Primary Pulmonary Hypertension
PPI - Proton Pump Inhibitor
PPN - Peripheral Parenteral Nutrition
PPTL - Post Partum Tubal Ligation
PR - Per Rectum
PRBCs - Packed Red Blood Cells
PRN - Refers to treatments which patient can receive on an "as needed" basis
PSA - Prostate Specific Antigen
PSC - Primary Sclerosing Cholangitis
PSH - Past Surgical History
PT - Physical Therapy; Posterior Tibial; Prothrombin Time; Patient
PTA - Prior To Admission; Peritonsilar Abscess
PTCA - Percutaneous Transluminal Coronary Angioplasty
P-Thal - Persantine Thallium
PTSD - Post-Traumatic Stress Disorder
PTT - Partial Thromboplastin Time
PTX - Pneumothorax
PUD - Peptic Ulcer Disease
PV - Polycythemia Vera; Portal Vein
PVAX - Pneumococcal Vaccination
PVC - Premature Ventricular Contraction
PVD - Peripheral Vascular Disease; Posterior Vitreous Detachment
PVR - Post Void Residual

Q - Every (refers to a time interval...eg. if followed by 6, means "Every 6 Hours"; if followed by AM, D, W, or M =s "Every Morning Day, Week, or Month" respectively)
QHS - Every Night
QID - Four times per day
QNS - Quantity Not Sufficient
QOD - Every Other Day

R - Right
RA - Right Atrium
RAD - Right Axis Deviation; also Reactive Airways Disease
R/B - Referred By; Relieved By
RBBB - Right Bundle Branch Block
RBC - Red Blood Cell
RCA - Right Coronary Artery
RCC - Renal Cell Cancer
RCT - Randomized Controlled Trial; Rotator Cuff Tear
RD - Retinal Detachment; also Registered Dietician
RDI - Respiratory Disturbance Index
RF - Rheumatoid Factor; also Risk Factor
RFA - Radio Frequency Ablation; Right Femoral Artery
RHC - Right Heart Cath
RHD - Rheumatic Heart Disease
Rheum - Rheumatology
R/I - Rule In
RIG - Rabies Immunoglobulin
RIMA - Right Internal Mammary Artery
RLE - Right Lower Extremity
RLL - Right Lower Lobe; also Right Lower Lid
RLQ - Right Lower Quadrant
RML - Right Middle Lobe
RNEF - Radionuclide Ejection Fraction
R/O - Rule Out
ROM - Range Of Motion
ROMI - Rule Out Myocardial Infarction
ROS - Review Of Systems
RPGN - Rapidly Progressive Glomerulonephritis
RPLND - Retroperitoneal Lymph Node Dissection
RPR - Rapid Plasma Reagin
RR - Respiratory Rate
RRP - Radical Retropubic Prostatectomy
RRR - Regular Rate and Rhythm
RSD - Reflex Sympathetic Dystrophy
RSV - Respiratory Syncytial Virus
RT - Respiratory Therapy
RTC - Return To Clinic
RUE - Right Upper Extremity
RUG - Retrograde Urethrogram
RUL - Right Upper Lobe; Right Upper Lid
RUQ - Right Upper Quadrant
RV - Right Ventricle; Residual Volume
RVAD - Right Ventricular Assist Device
RVG - Right Ventriculogram
RVR - Rapid Ventricular Response
RX - Treatment
S - Without
2/2 - Secondary To
T&C - Type and Cross
TCA - Tricyclic Antidepressant
TC - Current Temperature
TCC - Transitional Cell Cancer
TD - Tetanus and Diptheria Vaccination; Tardive Dyskinesia
TDWBAT - Touch Down Weight Bearing As Tolerated
TEE - Trans-Esophageal Echocardiogram
TFs - Tube Feeds
TG - Triglycerides
THA - Total Hip Arthroplasty
THR - Total Hip Replacement
TIA - Transient Ischemic Attack
TIBC - Total Iron Binding Capacity
TID - Three times per day
TIPS - Transvenous Intrahepatic Porto-Systemic Shunt
TKA - Total Knee Arthroplasty
TKR - Total Knee Replacement
TLC - Triple Lumen Catheter; Total Lung Capacity
TM - Tympanic Membrane; Maximum Temperature
TMJ - Temporo-Mandibular Joint
TMN - Tumor Metastases Nodes (universal tumor staging system)
TNF - Tumor Necrosis Factor
TOA - Tubo-Ovarian Abscess
TOX - Toxicology
TOXO - Toxoplasmosis
TP - Total Protein
TPA - Tissue Plasminogen Activator
TPN - Total Parenteral Nutrition
TR - Tricuspid Regurgitation
TRUS - Transrectal Ultrasound
T&S - Type and Screen
TSH - Thyroid Stimulating Hormone
TTE - Trans-Thoracic Echocardiogram
TTP - Tender To Palpation; Thrombotic Thrombocytopenic Purpura
TURBT - Transurethral Resection Bladder Tumor
TURP - Transurethral Prostatectomy
TV - Tidal Volume
TVC - True Vocal Cord
TX - Transfusion; Treatment

UA - Urine Analysis; also Uric Acid
UC - Ulcerative Colitis
UCC - Urgent Care Center
UCX - Urine Culture
UDS - Urodynamic Study
UE - Upper Extremity (usually preceded by R or L)
UF - Ultra Filtration
UFH - Unfractionated Heparin
UMBO - Umbilical
UMN - Upper Motor Neuron
UNSA - Unstable Angina
UO - Urine Output
UPEP - Urine Protein Electro-Pheresis
UPPP - Uvulopalatopharyngeoplasty
URI - Upper Respiratory tract Infection
US - Ultrasound
UTD - Up To Date
UTI - Urinary Tract Infection
UV - Ultraviolet

V - Vomiting
VA - Visual Acuity
VATS - Video Assisted Thoracoscopy Surgery
VAX - Vaccine
VBAC - Vaginal Birth After Cesearean Section
VBG - Venous Blood Gas
VC - Vital Capacity; Vocal Cord
VCUG - Voiding Cysto-Urethrogram
VF - Ventricular Fibrillation
VIP - Vasoactive Intestinal Peptide
VP - Ventriculo-Peritoneal
V&P - Vagotomy and Pyloroplasty
VS - Vital Signs
VSD - Ventricular Septal Defect
VSS - Vital Signs Stable
VT - Ventricular Tachycardia
VWF - Von Willebrand Factor

WBAT - Weight Bearing As Tolerated
WBC - White Blood Cells
WDWN - Well Developed, Well Nourished
WNL - Within Normal Limits
W/O - Without
W/U - Work-Up

X - Except
XLR - Crossed Leg Raise
XRT - Radiation Therapy

ZE - Zollinger Ellison