

## MedCalc 3000 – Select “Stat-Ref” from the Search Page

### HOW MedCalc 3000 WORKS:

- (1) Once Stat -Ref is launched, run a search as you would normally.
- (2) From the left frame of your search results screen, select “*MedCalc3000*” under *Additional Resources*.
- (3) The calculation tools relevant to the searched topic will display for use.

MedCalc 3000 is a unique computerized medical reference tool set that is part of STAT!Ref and encompasses a wide array of over 400 pertinent medical formulae and calculations, clinical criteria sets and decision tree analysis tools.

## A

a/A Ratio  
A-a Gradient  
AaPO<sub>2</sub> Correction for FIO<sub>2</sub>  
Absolute Lymphocyte Count  
Absolute Neutrophil Count  
Absolute Reticulocyte Count  
Acid-Base Graph / Interactive Grogono Diagram  
Activity Score for Nursing Home Patients  
AIDS Progression Estimate While on Anti Viral Rx  
Alcoholic Liver Disease Combined Index (Clinical and Laboratory -- CCLI) Criteria for One Year Mortality Prognosis  
Alcoholic Liver Disease: Criteria for One Year Mortality Prognosis  
Amortization of Student Loans  
Amikacin Dosing q24hr (also Kanamycin and Streptomycin)  
Aminoglycoside Clearance Estimate  
Androgen Deficiency in Aging Males (ADAM) Screener  
Anion Gap  
Anion Gap Delta Multicalc®  
Anion Gap in Hypoalbumin States  
Anthrax Screening for Exposed Patients TreeCalc®  
Aortic Stenosis and Valve Replacement Prediction TreeCalc®  
APACHE II Scoring System and Mortality Estimates (Acute Physiology and Chronic Health disease Classification System II)  
APACHE II Scoring System by Diagnosis  
Apgar Score  
Area Unit Conversions  
Arrhythmogenic Right Ventricular Dysplasia Diagnostic Criteria  
Arterial Blood Gas Interpretation TreeCalc®  
Ascites Albumin Gradient  
Asthma Hospitalization One Year Risk TreeCalc®  
ATP III Metabolic Syndrome Criteria  
Atrial Fibrillation and Arterial Thromboembolism Risk  
Atrial Fibrillation CHADS<sub>2</sub> Score for Stroke Risk  
Atrial Fibrillation Five Year Risk of Stroke  
Atrial Fibrillation Five Year Risk of Stroke or Death

## Autoimmune Hepatitis Diagnostic Criteria

### B

Bacterial Meningitis Score for Children  
Barrett Esophagus Progression Risk TreeCalc®  
Basic Unit Conversions  
Bayesian Statistics I MultiCalc®  
Bayesian Statistics II MultiCalc®  
Benefit Increase / Number Needed to Treat Multicalc®  
Benign Positional Vertigo Decision TreeCalc®  
Benzodiazepine Medication Dosing Conversions  
Bleeding Risk (Any bleeding complication) On Warfarin Therapy  
Bleeding Risk (Major complication) On Warfarin Therapy  
Bleeding Risk Index for Warfarin Therapy  
Bicarbonate Deficit  
BODE Index for COPD Survival Prediction  
Body Mass Index (Quetelet's index)  
Body Surface Area (Du Bois Method)  
Body Surface Area (Mosteller, Square Root Method)  
Bowel Obstruction Diagnosis: utility of X-ray  
Braden Score for Pressure Ulcer Risk Stratification  
Breast Cancer Recurrence Risk After Mastectomy (simple)  
Burn Injury Fluid Resuscitation ( Brooke estimate )  
Burn Injury Fluid Resuscitation ( Demling dextran estimate )  
Burn Injury Fluid Resuscitation ( Evans estimate )  
Burn Injury Fluid Resuscitation ( Modified Brooke crystalloid estimate )  
Burn Injury Fluid Resuscitation ( Parkland crystalloid estimate )  
Burn Injury Fluid Resuscitation ( Slater estimate )

### C

Canadian Head CT Rule for Minor Head Injury  
Cardiac Output  
Cardiac Output MultiCalc®  
Cardiac Risk Index for AAA Surgery (Lee)  
Cardiac Risk Index for Abdominal Surgery (Lee)  
Cardiac Risk Index for Non-AAA Vascular Surgery (Lee)  
Cardiac Risk Index for Orthopedic Surgery (Lee)  
Cardiac Risk Index for Thoracic Surgery (Lee)  
Cardiac Risk Index in Noncardiac Surgery (Detsky et. al.)  
Cardiac Risk Index in Noncardiac Surgery (Goldman, et. al.)  
Cardiac Surgery Risk Assesment Scale (UPMC Shadyside Hospital, 2002)  
Carpal Tunnel Syndrome Bivariate Decision TreeCalc®  
Carpal Tunnel Syndrome Multivariate Decision TreeCalc®  
Cesarean Section Delivery Probability Among Nulliparous Women TreeCalc®  
Cesarean Section Delivery Probability Among Parous Women TreeCalc®  
Chi Square Analysis  
Child Turcotte Pugh Grading of Liver Disease Severity  
Chronic Fatigue Syndrome Diagnostic Criteria  
CIWA-Ar Clinical Institute Withdrawal Assessment for Alcohol Scale  
Clock Drawing Task (Cognitive Impairment Screening)

Closing Capacity  
Closing Capacity to Total Lung Volume Capacity  
Closing Volume to Vital Capacity Ratio  
Community Acquired Pneumonia Severity Scale  
Comprehensive Unit Conversions  
Confidence Interval of a Binomial Proportion  
Confidence Interval of a Difference Between Proportions  
Confidence Interval of a Ratio of Proportions  
Confidence Interval of a Ratio of Ratios  
Confidence Interval of a Survey  
Conjunctivitis Agent Prediction (Bacterial or Other)  
Corrected Calcium in Hypoalbuminemia  
Corrected Calcium in Hypoalbuminemia (SI Units)  
Corrected Protein Concentration in Blood Contaminated CSF  
Corrected WBC in Blood Contaminated CSF  
Corticosteroid Medication Dosing Conversions (Glucocorticoid Effect)  
Corticosteroid Medication Dosing Conversions (Mineralocorticoid Effect)  
Creatinine Clearance  
Creatinine Clearance (SI Units)  
Creatinine Clearance by Mass  
Creatinine Clearance Estimate  
Creatinine Clearance Estimate (SI Units)  
Creatinine Clearance Estimate by Abbreviated MDRD Study Equation  
Creatinine clearance estimate for changing serum creatinine  
CSF IgG Index  
CURB Pneumonia Severity Score  
CURB-65 Pneumonia Severity Score

## D

Density Unit Conversions  
Depression (Any) Screening by a Two Item PHQ-2  
Depression (Major) Screening by a Two Item PHQ-2  
Diabetes Risk Score (Type II)  
Diabetes Screening TreeCalc®  
Diabetes Type Predictor TreeCalc®  
Digitalis Body Load  
Disease Activity Score DAS-28 for Rheumatoid Arthritis  
DVT Probability: Ambulatory Score System (Constans, 2003 paper)  
DVT Probability: Kahn Score System  
DVT Probability: St. Andre Score System  
DVT Probability: Wells Score System

## E

Ectopic Pregnancy Risk Estimation TreeCalc®  
Ehlers-Danlos Syndrome IV (Vascular Type) Diagnostic Criteria  
ELBW Infant Prognosis Prediction  
Energy Unit Conversions  
Endocarditis Diagnostic Criteria -- Duke Criteria  
Epoprostenol (Flolan) infusion rate calculator  
Epworth Sleepiness Scale (ESS)

## F

False Negative Rate from Sensitivity and Prevalence SP  
False Negative Ratio from Sensitivity and Prevalence SSP  
False Positive Rate from Specificity and Prevalence SP  
False Positive Ratio from Specificity and Prevalence SSP  
Fentanyl Patch Initial Dosing Estimate Based on Prior Narcotic Dosing  
Flow Unit Conversions  
Force Unit Conversions  
Fractional Excretion of Amylase ( Amylase to Creatinine Clearance Ratio )  
Fractional Excretion of Sodium  
Fractional Excretion of Sodium (SI Units)  
Friedewald Equation for Low Density Lipoprotein  
Functional Residual Capacity

## G

Gail Model for 5 Year Risk of Breast Cancer (1999 paper)  
Gail Model for Predicting Individual Breast Cancer Risk (1989 Paper)  
Gentamicin Dosing q24hr (also Tobramycin)  
Geriatric Depression 1 Item Screener  
Geriatric Depression 4 Item Scale  
Geriatric Depression Scale  
GFR Estimate by Quadratic Equation  
GFR Estimation using the MDRD Equation (Modification of Diet in Renal Disease Study Group)  
Glasgow Coma Scale  
Glomerular Filtration Rate Estimation by MDRD Equation  
Gorlin Formula for Valve Area  
GRACE Score for Acute Coronary Syndrome Prognosis  
Gurd's Diagnostic Criteria for Fat Embolism Syndrome

## H

Harris-Benedict Estimation of Basal Energy Expenditure  
Hemoglobin A1C Estimation from Mean Plasma Glucose  
Hemoglobin A1C to Mean Plasma Glucose Estimation  
Henderson-Hasselbach Equation  
Hepatitis C Cirrhosis Probability  
Hepatitis C Fibrosis Prediction Score  
Hepatitis C Outcome TreeCalc®  
Hepatitis Discriminant Function for Prednisolone Treatment in Severe Alcoholic Hepatitis  
Housestaff Activity Index  
Hyponatremia Correction Infusate Rate

## I

Ideal Body Weight  
Ideal Body Weight Percentage

IME Adjusted Ratio for Medical Education Medicare Payments to Teaching Hospitals  
In-Flight PaO<sub>2</sub> Estimation  
In-Flight PaO<sub>2</sub> Estimation (using PFT's)  
Inferior Wall M.I. in Vector and Scalar Electrocardiography  
Inferior Wall Myocardial Infarction Diagnosis TreeCalc®  
Influenza Diagnosis and Treatment TreeCalc®  
Inspiratory Capacity  
International Normalized Ratio of Prothrombin Time  
Intracranial Bleeding Risk from Thrombolytic Therapy of MI  
Iron Replacement (parenteral dosing) for Iron Deficiency  
Irritable Bowel Syndrome Diagnostic Criteria (Manning Criteria)

## J

Jones Criteria for Diagnosis of Rheumatic Fever

## K

Kappa Measurement of Inter-observer Agreement MultiCalc®  
Kappa Measurement of Inter-observer Agreement: Bennett's Kappa  
Kappa Measurement of Inter-observer Agreement: Cohen's Kappa  
Kappa Measurement of Inter-observer Agreement: Scott's Kappa  
Kawasaki Disease Diagnostic Criteria  
Kt/V Dialysis Dose Barth Formula  
Kt/V Dialysis Dose Basile Formula  
Kt/V Dialysis Dose Daugirdas Formula  
Kt/V Dialysis Dose Formulae MultiCalc®  
Kt/V Dialysis Dose Jindal Formula  
Kt/V Dialysis Dose Kerr Formula  
Kt/V Dialysis Dose Keshaviah Formula  
Kt/V Dialysis Dose Lowrie Formula

## L

Lean Body Weight (Female)  
Lean Body Weight (Male)  
Lean Body Weight Based on Creatinine Production  
Length Unit Conversions  
Left Atrial Thrombus Resolution in Mitral Stenosis Patients on Anticoagulation (for up to 34 months)  
Left Bundle Branch Block in Vector and Scalar Electrocardiography  
Left Ventricular Capture Loss in Resynchronization Biventricular Pacing TreeCalc®  
Left Ventricular Hypertrophy in Vector and Scalar Electrocardiography  
Likelihood Ratio MultiCalc®  
Likelihood Ratio of Negative from Raw Data  
Likelihood Ratio of Positive from Raw Data  
Low Back Pain Evaluation TreeCalc®  
Low Density Lipoprotein  
Lower GI Bleeding and Risk of Severe Bleeding  
Lung Cancer One Year Risk Estimation (for smokers 50-75 years old)  
Lung Volume Multicalc®

## M

Mean Corpuscular Hemoglobin  
Mean Corpuscular Hemoglobin Concentration  
Mean Corpuscular Volume  
Mean Vascular Pressure (Systemic or Pulmonary)  
MEDS Score: Mortality in ER Sepsis  
M.I. Criteria for Likelihood in Chest Pain with LBBB  
Migraine Screener  
Migraine With Aura Diagnostic Criteria  
Migraine Without Aura Diagnostic Criteria  
M.I. Prediction Decision TreeCalc®  
MODS Score: Multiple Organ Dysfunction  
Mortality After Hospitalization in Older Adults  
Mortality After Hospitalization in Older Adults (SI units)  
Multiple Myeloma Diagnostic Criteria  
Mycoplasma Pneumoniae Prediction in Children with Pneumonia  
Mycoplasma Pneumoniae Prediction TreeCalc®  
Myelodysplastic Syndrome International Prognostic Scoring System

## N

Nasal Canula Oxygen Fractional Inspired O<sub>2</sub> (FIO<sub>2</sub>) Estimate  
NASH Fibrosis Risk (Nonalcoholic Steatohepatitis) TreeCalc®  
Negative Predictive Value from Raw Data  
Negative Predictive Value of a Test  
Neurofibromatosis Type 2 Diagnostic Criteria (1987 NIH)  
Neurofibromatosis Type 2 Diagnostic Criteria (1991 NIH)  
Neurofibromatosis Type 1 Diagnostic Criteria  
New Orleans Head CT Criteria  
NIH Stroke Score  
Non Q Wave Myocardial Infarction Prediction  
Nonbiliary Cirrhosis Prognostic Criteria for One Year Survival  
Normal Range for Body Weight  
Norton Scale to Stratify Risk of Pressure Sores  
Number Needed to Harm (NNH) from Odds Ratio (OR) and Patient Expected Event Rate (PEER)  
Number Needed to Treat (NNT) from Odds Ratio (OR) and Patient Expected Event Rate (PEER)

## O

Obesity Management Guidelines, National Institutes of Health / NHLBI TreeCalc®  
Odds from Probability  
Odds Ratio and Relative Risk  
Omeprazole Therapeutic Gain (Over Placebo) in Dyspepsia  
Omeprazole Therapeutic Index in Dyspepsia  
Opioid Medication Dose Conversions  
Osmolality Estimator (serum)  
Osmolar Clearance

Osteoporosis Risk Assessment by Composite Linear Estimate (ORACLE score)  
Osteoporosis Risk Assessment Index (ORAI)  
Osteoporosis Risk SCORE (Simple Calculated Osteoporosis Risk Estimation)  
Osteoporosis Self Assessment Tool for Men  
Osteoporosis Self Assessment Tool for Women  
Oswestry Disability Index Version 1  
Oswestry Disability Index Version 2  
Ottawa Ankle Rule for the Use of X-Ray in Ankle Injury  
Ottawa Foot Rule for the Use of X-Ray in Foot Injury  
Ottawa Knee Rule for use of X Ray in Knee Injury  
Overall Accuracy of a Test from Raw Data  
Overall Accuracy of a Test from Sensitivity, Specificity and Prevalence  
Oxygen Delivery Units Conversions  
Oxygenation Index (OI)

## **P**

Pacer Need after Heart Valve Surgery  
Palliative Prognostic Score in Terminal Illness  
Pancreatitis Prognosis Criteria  
Pancreatitis Prognosis Criteria When Disease Due To Gallstones  
Panic Disorder Screener  
PaO<sub>2</sub> Correction for FIO<sub>2</sub>  
PaO<sub>2</sub> / FIO<sub>2</sub> Ratio (for MODS Calculation)  
Patient Health Questionnaire (PHQ-9)  
Peak Expiratory Flow Prediction  
Peak Expiratory Flow Variability in Asthma  
Perioperative Cardiac Evaluation TreeCalc®  
PFT Predicted Values (Adjusted) for Men MultiCalc®  
PFT Predicted Values (Adjusted) for Women MultiCalc®  
PFT Predicted Values for Boys MultiCalc®  
PFT Predicted Values for Girls MultiCalc®  
PFT Predicted Values for Men MultiCalc®  
PFT Predicted Values for Women MultiCalc®  
Phenytoin Level Adjusted for Hypoalbuminemia and Renal Function  
Phenytoin: Free Drug Level Prediction Adjusted for Albumin Level  
Pittsburgh Knee Rule for X-Ray Evaluation of Knee Injury TreeCalc®  
Pneumonia Mortality in Nursing Home Patients by Logistic Regression  
Pneumonia Mortality Prediction in Nursing Home Patients  
Pneumonia Mortality Prediction in Nursing Home Patients (SI Units)  
Pneumonia Mortality Predictor In the Elderly  
Pneumonia Probability in Nursing Home Patients  
Pneumonia Risk in Post Operative Period of Non-Cardiac Surgery  
Pneumothorax Degree of Collapse  
Polycythemia Vera Diagnostic Criteria  
Positive Predictive Value from Raw Data  
Positive Predictive Value of a Test  
POSSUM Score for Orthopedic Procedure Prognosis  
POSSUM Score for Orthopedic Procedure Prognosis (SI Units)  
Post Test Odds of a Negative from Raw Data  
Post Test Odds of a Negative Result from Sensitivity Specificity and Prevalence  
Post Test Odds of a Positive from Raw Data

Post Test Odds of a Positive Result from Sensitivity Specificity and Prevalence  
Power Unit Conversions  
Pressure Adjusted Heart Rate (For MODS calculation)  
Pressure Unit Conversions  
Pre Test Odds from Prevalence  
Pre Test Odds from Raw Data  
Prevalence of a Finding or Disease from Test Data  
Probability from Odds  
PROCAM Risk Score (Munster Heart Study Imperial Units)  
PROCAM Risk Score (Munster Heart Study)  
Prostatism Symptom Score  
Protein Bound Calcium  
Protein Catabolic Rate  
PTCA Complication Prediction Score (Death, MI, Urgent Bypass)  
PTCA Mortality Prediction  
Pulmonary Embolism Wells Score  
Pulmonary Fibrosis Survival Prediction (CRP Score for Abbreviated Model)  
Pulmonary Fibrosis Survival Prediction (CRP Score for Complete Model)  
Pulmonary Vascular Resistance

## Q

QT Interval Correction (EKG)

## R

Rabies Post Exposure Prophylaxis (PEP) TreeCalc®  
Red Blood Cell Volume by Radionuclide Dilution  
Renal Artery Stenosis Prediction Rule  
Renal Failure Index  
Residual Renal Function in Hemodialysis Patients (3x/week)  
Residual Volume to Total Lung Capacity Ratio  
Respiratory Failure Risk in Post Operative Period of Non-Cardiac Surgery  
Reticulocyte Production Index  
Rheumatoid Arthritis Criteria (1987 Revision--American Rheumatism Association)  
Right to Left Shunt Fraction Qs/Qt  
Risk Increase / Number Needed to Harm Multicalc®  
Risk Reduction / Number Needed to Treat Multicalc®  
Roland-Morris Disability Score  
Romhilt-Estes Criteria for Left Ventricular Hypertrophy  
Rotator Cuff Tear Diagnosis

## S

SARS (Severe Acute Respiratory Distress Syndrome) CDC Case Definition (4/20/2003)  
TreeCalc®  
Sensitivity of a Test  
Septic Arthritis Prediction in Pediatric Hip Pain Syndrome  
Serum Sodium Change in Hyperlipidemia  
Serum Sodium Change in Hyperproteinemia  
Serum Sodium Concentration Change Considering Infused and Excreted Cations

SI Unit Conversions: Body Fluid Chemistries  
SI Unit Conversions: Chemistry Values  
SI Unit Conversions: Coagulation Tests  
SI Unit Conversions: Drugs  
SI Unit Conversions: Hematology  
SI Unit Conversions: Urine Chemistry Values  
Smallpox Risk Assessment (CDC version 1.0, 2002) TreeCalc®  
Smoking Cessation and Intervention TreeCalc®  
Sodium Correction in Hyperglycemia  
Sodium Deficit in Hyponatremia  
Solitary Pulmonary Nodule Malignancy Risk  
Sore Throat (Pharyngitis) Evaluation and Strep Prediction (Attia)  
Sore Throat (Pharyngitis) Evaluation and Treatment Criteria (McIsaac)  
Specificity of a Test  
Speed Unit Conversions  
Spinal Manipulation Success Prediction for Low Back Pain  
Stage III Pressure Ulcer TreeCalc®  
Stage IV Pressure Ulcer TreeCalc®  
Stool Osmolal Gap  
Stress Test Outcome Risk Factors  
Stroke Recovery Prediction  
Stroke Risk in Diabetes Type 2 UKPDS 60  
Suggested Management of Patients with Raised Lipid Levels TreeCalc®  
Survey Sample Size  
Survey Sample Size with Population Correction  
Syncope Risk Prediction  
Systemic Lupus Erythematosus American Rheumatism Association 11 Criteria  
Systolic Murmur Significance Probability  
Systemic Vascular Resistance

## T

Temperature Unit Conversions  
Textile Type Unit Conversions  
Thyroid Disease Screening for Females More Than 50 Years Old TreeCalc®  
TIA Prognosis: Risk of Stroke by 90 Days After Presentation  
Time Averaged Concentration of Urea in Hemodialysis  
Time Unit Conversions  
TIMI Score for ST Elevation Acute Myocardial Infarction  
TIMI Score for Unstable Angina Non ST Elevation Myocardial Infarction  
TIPS Risk predictor / Survival predictor (Transjugular Intrahepatic Portosystemic Shunt)  
Total Body Water (BIA formula)  
Total Body Water Estimation Based on Weight Alone  
Total Body Water in Men (Humes-Weyer Formula)  
Total Body Water in Men (Johansson Formula)  
Total Body Water in Men (Lee Formula)  
Total Body Water in Men (Watson Formula)  
Total Body Water in Women (Humes-Weyer Formula)  
Total Body Water in Women (Johansson Formula)  
Total Body Water in Women (Lee Formula)  
Total Body Water in Women (Watson Formula)  
Total Daily Energy Requirement Estimate

Total Lung Capacity  
Transferrin Saturation  
Transtubular Potassium Gradient at CCD  
True Negative Ratio from Specificity and Prevalence  
True Positive Ratio from Sensitivity and Prevalence  
Tuberculosis Risk Prediction

## U

UNOS MELD Score in Liver Disease  
UNOS PELD Score in Liver Disease (Patients less than 18 years old)  
Unstable Angina and Tirofiban Benefit Prediction  
Unstable Angina Outcome Prediction  
Unstable Angina Risk Stratification (Piombo)  
Unstable Angina Risk Stratification (Solomon)  
Urea Reduction Percentage in Hemodialysis (PRU)  
Urea Reduction Ratio in Hemodialysis (URR)  
Urinary Protein Excretion Estimation

## V

Vector and Scalar Electrocardiography  
Venous Leg Ulcer Healing Prediction  
Ventilation Index  
Very Low Density Lipoprotein (VLDL)  
Vital Capacity  
Volume of Distribution of Urea  
Volume Unit Conversions

## W

Warfarin Dosing Nomogram for 10 mg Initiation (Crowther) TreeCalc®  
Warfarin Dosing Nomogram for 10 mg Initiation (Kovacs) TreeCalc®  
Warfarin Dosing Nomogram for 5 mg Initiation (Crowther) TreeCalc®  
Warfarin Dosing TreeCalc®  
Warfarin Weekly Dose Estimate in Non-rheumatic A-fib  
Water Deficit in Hypernatremia  
Waterlow Scale for Stratification of Pressure Sore Risk  
Weight Unit Conversions  
Winter's Formula for Expected PCO<sub>2</sub>