

Health Resources Digest
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EurasiaHealth Knowledge Network
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Medical Algorithms (Calculators)

*“A **medical algorithm** is any computation, formula, statistical survey, nomogram, or look-up table, useful in healthcare. Medical algorithms include decision tree approaches to healthcare treatment (i.e., if symptoms A, B, and C are evident, then use treatment X) and also less clear-cut tools aimed at reducing or defining uncertainty... Medical decisions occur in several areas of medical activity including medical test selection, diagnosis, therapy and prognosis, and automatic control of medical equipment.”*
http://en.wikipedia.org/wiki/Medical_algorithm

eMedicine – eTools

The original open access comprehensive medical textbook for all clinical fields (free registration required). For each topical Resource Center you can find available eTools (scales and calculators)
URL: <http://www.emedicine.com/rc/rc/i24/multiplesclerosis.htm>

Bayesian Analysis Model

Calculates test sensitivity, specificity, predictive values, and likelihood ratios
URL: <http://www.intmed.mcw.edu/clincalc.html>

Clinical Significance Calculator

Calculates ARR, RRR, OR, NNT. From the University of British Columbia , School of Population and Public Health
URL: <http://www.spph.ubc.ca/calc/clinsig.html>

Clinical Action Thresholds

The testing threshold: if the probability of the disease in the patient is below this number, do not administer test, and continue observing the patient. The treatment threshold: if the probability of the disease in the patient is above this number, administer the treatment
URL: <http://personal.health.usf.edu/bdjulbeg/Programs/BR/br-java.htm>

Stats Calculator – Centre for Evidence-Based Medicine (Toronto)

Diagnostic Test - calculates the Sensitivity, Specificity, PPV, NPV, LR+, and LR-. Prospective Study - calculates the Relative Risk (RR), Absolute Risk Reduction (ARR), and Number Needed to Treat (NNT). Case-control Study - calculates the Odds Ratio (OR). Randomized Control Trial (RCT) - calculates the Relative Risk Reduction (RRR), ARR, and NNT
URL: <http://www.cebm.utoronto.ca/practise/ca/statscal/>

Medal.org

More than 11,000 Scales, Tools, Assessments, Scoring Systems, and other Algorithms intended for Medical Education and for Biomedical Research. The algorithms have been collected from the peer-reviewed biomedical literature, including research journals and textbooks.
URL: <http://www.medal.org/visitor/ans.html>

Medical Calculators (in Russian)

Calculating body mass index, body surface area; evaluating creatinine clearance, calculating calcium concentration, and so on. (From the information and analysis system "Physician's Consultant")

URL: <http://www.klinrek.ru/calcs/ccs.htm>

Diagnostic Calculators (in Russian)

Diagnostic calculators are meant to calculate diagnostic characteristics and forecast the value of laboratory (and other) diagnostic tests.

URL: <http://www.volgmed.ru/biochem/801/calculators.php>

Health Resources Digest Forthcoming Topics

[Provisional]

Statistical Methods in Clinical Research

If you have a suggestion for a Digest topic, or would like to contribute information about Internet resources, then please contact ibra@zadar.net

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