Patient-Centered Diagnosis: Methodologies to Predict Individually Tailored Outcomes of Current Diagnostic Tests and to Create New Tests

By Kashani-Sabet and Sagebiel Miller

iUniverse, United States, 2015. Paperback. Book Condition: New. 279 x 210 mm. Language: English . Brand New Book ***** Print on Demand *****.Patient-centered diagnosis and prognosis focus on individual patients. Both rely on a methodology that generates individually tailored probabilistic predictions of a specified medical outcome that a particular patient may experience. Predictions are based on observable diagnostic and prognostic factors. Because these predictions are both particular-outcome-specific and individual-patient-specific, achieving predictive accuracy poses a formidable challenge. Nevertheless, the patient-centered methodology (PCM) appears to produce more accurate individually tailored patient predictions than those typically achieved under current medical practice. PCM achieves its greater predictive accuracy by exploiting several analytical devices. 1. It redesigns and retools each successive stage of the analytical procedure to predict the particular future outcome that the targeted patient could experience. 2. It identifies the existence, the direction, the shape, and the magnitude of each diagnostic and prognostic factor s relationship to the particular outcome as that relationship pertains, specifically, to patients similar to the targeted patient. 3. It relies on detected interrelationships among separate diagnostic and prognostic factors and between both and the specified outcome to fill in missing observations so that an individually tailored probabilistic