

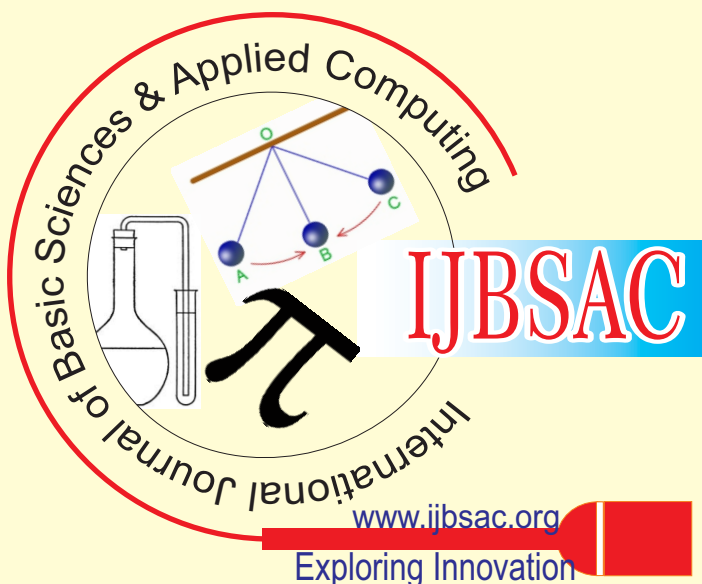
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	<b>Authors:</b>	<b>Krasimira Prodanova, Mariya Negreva, Katerina Vitlianova</b>	
	<b>Paper Title:</b>	<b>Diagnostic Values of Some Fibrinolytic Indicators for Rejecting the Presence of Paroxysmal Atrial Fibrillation</b>	
1.		<p><b>Abstract:</b> Diagnostic tests are a cornerstone in modern medicine. They are used not only to confirm the presence of a disease but also to rule out the disease in healthy subjects. Tests with two outcome categories (i.e. presence/absence) are known as dichotomous tests. Their inherent validity is determined by sensitivity and specificity and the receiver operating characteristic (ROC) curve is known to be a simple, yet complete plot that displays the full picture of trade-off between the sensitivity (true positive rate) and (1- specificity) (false positive rate) across a series of cut-off points. Our study found that, even in the early hours of paroxysmal atrial fibrillation, there were significant changes in major indicators of fibrinolysis, namely plasminogen level, t-PA level, PAI-1 activity, <math>\alpha</math>2-antiplasmin activity, vitronectin and D-dimer plasma levels. We believe that they are closely related and stem from the disease itself. This gave us reason, using these indicators as predictors, to search for a diagnostic option to rule out PAF. We used statistical models of logistic regression analysis and ROC to achieve this. Values of <math>p &lt; 0.05</math> were considered statistically significant. Plasma levels of vitronectin have been found to be the most reliable predictor for ruling out PAF (specificity 88%, sensitivity 83%, AUC 0.96), while D-dimer levels had the lowest diagnostic values (37% specificity, 81% sensitivity, AUC 0.56). The obtained results are not only of pure scientific but also of applied nature. They could be used to improve identification of patients at risk for PAF embolism, and assist in the choice of thromboprophylaxis.</p> <p><b>Keywords:</b> paroxysmal atrial fibrillation, fibrinolytic markers, logistic regression analysis, receiver operating characteristics.</p> <p><b>References:</b></p> <ol style="list-style-type: none"> <li>Zoni-Berisso M, Lercari F, Carazza T, Domenicucci S. Epidemiology of atrial fibrillation: European perspective. <i>Clin Epidemiol.</i> 2014;6:213-20.</li> <li>Quirino G, Giammaria M, Corbucci G, Pistelli P, Turri E, Mazza A et al. Diagnosis of paroxysmal atrial fibrillation in patients with implanted pacemakers: relationship to symptoms and other variables. <i>Pacing Clin Electrophysiol.</i> 2009;32(1):91-98.</li> <li>Primo J, Gonçalves H, Macedo A, Russo P, Monteiro T, Guimarães J, Costa O. Prevalence of paroxysmal atrial fibrillation in a population assessed by continuous 24-hour monitoring. <i>Rev Port Cardiol.</i> 2017;36(7-8):535-546.</li> <li>Banerjee A, Taillandier S, Olesen JB, Lane DA, Lallemand B, Lip GY, Fauchier L. Pattern of atrial fibrillation and risk of outcomes: the Loire Valley Atrial Fibrillation Project. <i>Int J Cardiol.</i> 2013;167(6):2682-7.</li> <li>Inoue H, Atarashi H, Okumura K, Yamashita T, Kumagai N, Origasa H. Thromboembolic events in paroxysmal vs. permanent non-valvular atrial fibrillation. Subanalysis of the J-RHYTHM Registry. <i>Circ J.</i> 2014;78(10):2388-93.</li> <li>Disertori M, Franzosi MG, Barlera S, Cosmi F, Quintarelli S, Favero C et al; GISSI-AF investigators. Thromboembolic event rate in paroxysmal and persistent atrial fibrillation: data from the GISSI-AF trial. <i>BMC Cardiovasc Disord.</i> 2013;13:28.</li> <li>Paciaroni M, Angelini F, Agnelli G, Tsigoulis G, Furie KL, Tadi P et al. Early recurrence in paroxysmal versus sustained atrial fibrillation in patients with acute ischaemic stroke. <i>Eur Stroke J.</i> 2019;4(1):55-64.</li> <li>Christensen LM, Krieger DW, Højberg S, et al. Paroxysmal atrial fibrillation occurs often in cryptogenic ischaemic stroke. Final results from the SURPRISE study. <i>Eur J Neurol.</i> 2014;21:884-889.</li> <li>Wohlfahrt J, Stahrenberg R, Weber-Krüger M, et al. Clinical predictors to identify paroxysmal atrial fibrillation after ischaemic stroke. <i>Eur J Neurol.</i> 2014;21:21-27.</li> <li>Negreva M, Georgiev S, Vitlianova K. Early effects of paroxysmal atrial fibrillation on plasma markers of fibrinolysis. <i>Medicine (Baltimore).</i> 2016;95(45):e5184.</li> <li>World Medical Association Declaration of Helsinki (2008). Ethical principles for medical research involving human subjects. 59th WMA General Assembly. Seoul.</li> <li>Hosmer DW, Lemeshow S, Sturdivant R. <i>Applied Logistic Regression</i>, 3rd Edition, New York: Wiley and Sons, 2013, pp 8-20.</li> <li>Johnson D E. <i>Applied Multivariate Methods for Data Analysis</i>. Belmont, CA: Duxbury Press, 1998.</li> <li>Williams CJ, Lee SS, Fisher RA, Dickerman LH (1999) A comparison of statistical methods for prenatal screening for Down syndrome. <i>Appl Stoch Model Data Anal</i> 15:89-101.</li> <li>Fluss R, Faraggi D, Reiser B. Estimation of the Youden Index and its associated cutoff point. <i>Biom J.</i> 2005;47(4):458-72.</li> <li>TIBCO Statistica™ Release Notes. Software Release 13.3.0. June 2017</li> </ol>	1-6
2.	<b>Authors:</b>	<b>Amar Jeet Singh, Aditya Narayan, Sarvjeet Singh</b>	
	<b>Paper Title:</b>	<b>Taxonomy of Piscian Cestodes of Freshwater fish: A cladistic model of Morphotaxonomic Study of Rare Tapeworm from the Dehradun Region (U.K.), India</b>	
		<p><b>Abstract:</b> The current experimental study has been conducted to analyze cladistic taxonomic aspects of the piscian cestode parasites including its morphological characters. Freshwater fishes caught on the spot at selected sampling stations with the help of local fishermen and collected for tapeworm investigations. Freshwater catfish <i>Clarias batrachus</i> (Linnaeus, 1758)[3] collected from Dehradun sampling stations and examined for tapeworm parasites as per experimental design. The collected fishes were brought to the Parasitology laboratory for experimental study and morphological as well as anatomical facts investigation. Parasites obtained from infected host fishes kept intact in 5% formalin for further investigation. Ten cestode (tapeworm) parasites were found from its infested Intestine. The morphological study of tapeworms indicates that parasitic diversity is accessible within the Ganga river at Dehradun (U.K.) region. Morphotaxonomic characterization reported as - H, butterfly flap shaped ovary, testes numerous and well developed, vitelline follicle - cortical and medullary. This study provides an overview of the piscian tapeworm parasites of some freshwater fishes inhabiting the Ganga river.</p> <p><b>Keywords:</b> Morphotaxonomic, Morphometry, Tapeworm, Cestode, Ganga river, Dehradun (U.K.).</p>	7-13

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