

Serial Ultrasonographic-measurement of Gastric Residual Volume in Critically Ill Patients for Prediction of Gastric Tube Feed Intolerance: Views

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We read with immense interest the article titled "Serial Ultrasonographic-measurement of Gastric Residual Volume in Critically Ill patients for Prediction of Gastric Tube Feed Intolerance" by Rewari et al.¹ We commend the authors for their research, but we would like to express our views about this.

Authors have used sonographic assessment of the antral cross-sectional area (CSA) to predict enteral feed intolerance (EFI). As per the American society for parenteral and enteral nutrition (ASPEN) – 2020 updates in the definition of feed intolerance, different components have been used to define EFI including gastric residual volume (GRV), vomiting, diarrhea, a combination of gastrointestinal (GI) symptoms, intra-abdominal pressure and the amount of energy administered by EN. Even though a uniform definition is lacking, the pragmatic definition used by a clinician cannot be applied for research purposes when trying to study the prevalence, association with outcome, and the effect of interventions targeting EFI as mentioned.² A clear-cut definition for diagnosing EFI was not used by the authors. Enteral feed intolerance can occur at various levels in the GI tract such as gastroparesis, small bowel, and large bowel. One of the important clinical features of the small bowel and large bowel EFI is diarrhea which was not mentioned in the clinical features taken into account by the authors. Antral CSA which is a surrogate for GRV was used by the authors to predict EFI as there was a good correlation noted from the previous studies.³ Gastric residual volume is a good predictor of EFI proximal to the antrum, that is, gastroparesis but not distal to the antrum. Hypo- or hyper-motility throughout the GI tract should be considered while defining EFI. Findings such as dilated bowel loops, bowel wall thickness, and peristalsis can be seen radiologically.² Hence, using CSA alone to predict EFI would not include all forms of EFI. Normal gastric emptying time is about 1.5–2 hours and is lesser for liquids. As per American Neurogastroenterology and Motility Society, assessment of gastric emptying by scintigraphy following a standard meal is done at 0 minute, 1, 2, 3, and 4 hours.⁴ In critically ill patients, gastric emptying is affected by various factors such as stress, drugs, electrolytes, fluid overload, etc. In their study, the authors have used the continuous infusion of liquid feeds for 16 hours followed by an 8-hour feed-free period and GRV is measured at 0, 1, 2, 3, and 4 hours. There is a good probability of development of EFI later than 4 hours. Another measurement at the end of feeding could have been done as done in the previous studies¹ and compared with GRV.

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We would like to congratulate the authors for this study and also suggest taking into consideration the above-mentioned aspects while planning further studies.

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Software Reliability A. Bendell, P Mellor, 2014-05-17 Software Reliability reviews some fundamental issues of software reliability as well as the techniques models and metrics used to predict the reliability of software Topics covered include fault avoidance fault removal and fault tolerance along with statistical methods for the objective assessment of predictive accuracy Development cost models and life cycle cost models are also discussed This book is divided into eight sections and begins with a chapter on adaptive modeling used to predict software reliability followed by a discussion on failure rate in software reliability growth models The next chapter deals with methods for predicting and estimating software reliability with emphasis on their strengths and weaknesses The reader is methodically introduced to formal inspection in software development the effects of product design program structure development methods and the environments of product testing and use on product reliability and types of software metrics in relation to reliability The remaining chapters explore the ways in which software engineers have sought to achieve software reliability through testing problems and standards in software reliability data collection and applications of time series models to software reliability analysis This monograph will be of interest to software engineers and designers

Handbook of Shock Waves, Three Volume Set Gabi Ben-Dor, Ozer Igra, Tov Elperin, 2000-10-18 The Handbook of Shock Waves contains a comprehensive structured coverage of research topics related to shock wave phenomena including shock waves in gases liquids solids and space Shock waves represent an extremely important physical phenomena which appears to be of special practical importance in three major fields compressible flow aerodynamics materials science and astrophysics Shock waves comprise a phenomenon that occurs when pressure builds to force a reaction i e sonic boom that occurs when a jet breaks the speed of sound This Handbook contains experimental theoretical and numerical results which never before appeared under one cover the first handbook of its kind The Handbook of Shock Waves is intended for researchers and engineers active in shock wave related fields Additionally R D establishments applied science research laboratories and scientific and engineering libraries both in universities and government institutions As well as undergraduate and graduate students in fluid mechanics gas dynamics and physics Key Features Ben Dor is known as one of the founders of the field of shock waves Covers a broad spectrum of shock wave research topics Provides a comprehensive description of various shock wave related subjects First handbook ever to include under one separate cover experimental theoretical and numerical results

Concise Handbook Of Analytical Spectroscopy, The: Theory, Applications, And Reference Materials (In 5 Volumes) Jerome (Jerry) James Workman, Jr, 2016-06-17 The concept of improving the use of electromagnetic energy to achieve a variety of qualitative and quantitative spectroscopic measurements on solid and liquid materials has been proliferating at a rapid rate The use of such technologies to measure chemical composition appearance for classification and to achieve detailed understanding of material interactions has prompted a dramatic expansion in the use and development of spectroscopic techniques over a variety of academic and

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Practical Software Testing Ilene Burnstein, 2006-04-18 Based on the needs of the educational community and the software professional this book takes a unique approach to teaching software testing It introduces testing concepts that are managerial technical and process oriented using the Testing Maturity Model TMM as a guiding framework The TMM levels and goals support a structured presentation of fundamental and advanced test related concepts to the reader In this context the interrelationships between theoretical technical and managerial concepts become more apparent In addition relationships between the testing process maturity goals and such key players as managers testers and client groups are introduced Topics and features Process engineering oriented text Promotes the growth and value of software testing as a profession Introduces both technical and managerial aspects of testing in a clear and precise style Uses the TMM framework to introduce testing concepts in a systematic evolutionary way to facilitate understanding Describes the role of testing tools and measurements and how to integrate them into the testing process Graduate students and industry professionals will benefit from the book which is designed for a graduate course in software testing software quality assurance or software validation and verification Moreover the number of universities with graduate courses that cover this material will grow given the evolution in software development as an engineering discipline and the creation of degree programs in software engineering

Statistical Method in Educational Measurement Arthur Sinton Otis, 1925

Chance, Love, and Logic Charles Sanders Peirce, John Dewey, 1923

Audiovisual Speech Recognition: Correspondence between Brain and Behavior Nicholas Altieri, 2014-07-09 Perceptual processes mediating recognition including the recognition of objects and spoken words is inherently multisensory This is true in spite of the fact that sensory inputs are segregated in early stages of neuro sensory encoding In face to face communication for example auditory information is processed in the cochlea encoded in auditory sensory nerve and processed in lower cortical areas Eventually these sounds are processed in higher cortical pathways such as the auditory cortex where it is perceived as speech Likewise visual information obtained from observing a talker s articulators is encoded in lower visual pathways Subsequently this information undergoes processing in the visual cortex prior to the extraction of articulatory gestures in higher cortical areas associated with speech and language As language perception unfolds information garnered from visual articulators interacts

with language processing in multiple brain regions This occurs via visual projections to auditory language and multisensory brain regions The association of auditory and visual speech signals makes the speech signal a highly configural percept An important direction for the field is thus to provide ways to measure the extent to which visual speech information influences auditory processing and likewise assess how the unisensory components of the signal combine to form a configural integrated percept Numerous behavioral measures such as accuracy e g percent correct susceptibility to the McGurk Effect and reaction time RT have been employed to assess multisensory integration ability in speech perception On the other hand neural based measures such as fMRI EEG and MEG have been employed to examine the locus and or time course of integration The purpose of this Research Topic is to find converging behavioral and neural based assessments of audiovisual integration in speech perception A further aim is to investigate speech recognition ability in normal hearing hearing impaired and aging populations As such the purpose is to obtain neural measures from EEG as well as fMRI that shed light on the neural bases of multisensory processes while connecting them to model based measures of reaction time and accuracy in the behavioral domain In doing so we endeavor to gain a more thorough description of the neural bases and mechanisms underlying integration in higher order processes such as speech and language recognition

Scientific and Technical Aerospace Reports, 1977 **Handbook of Research Design and Social Measurement** Delbert Charles Miller, 1983

Intelligent Vehicles David Fernández-Llorca, Ignacio Parra Alonso, Iván García Daza, Noelia Hernández

Parra, 2020-11-24 This book presents the results of the successful Sensors Special Issue on Intelligent Vehicles that received submissions between March 2019 and May 2020 The Guest Editors of this Special Issue are Dr David Fernández Llorca Dr Ignacio Parra Alonso Dr Iván García Daza and Dr Noelia Parra Alonso all from the Computer Engineering Department at the University of Alcalá Madrid Spain A total of 32 manuscripts were finally accepted between 2019 and 2020 presented by top researchers from all over the world The reader will find a well representative set of current research and developments related to sensors and sensing for intelligent vehicles The topics of the published manuscripts can be grouped into seven main categories 1 assistance systems and automatic vehicle operation 2 vehicle positioning and localization 3 fault diagnosis and fail x systems 4 perception and scene understanding 5 smart regenerative braking systems for electric vehicles 6 driver behavior modeling and 7 intelligent sensing We the Guest Editors hope that the readers will find this book to contain interesting papers for their research papers that they will enjoy reading as much as we have enjoyed organizing this Special Issue

Engineering Journal, 1919 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924

XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016 Efthymoulos Kyriacou, Stelios Christofides, Constantinos S. Pattichis, 2016-03-31 This volume presents the

proceedings of Medicon 2016 held in Paphos Cyprus Medicon 2016 is the XIV in the series of regional meetings of the International Federation of Medical and Biological Engineering IFMBE in the Mediterranean The goal of Medicon 2016 is to

provide updated information on the state of the art on Medical and Biological Engineering and Computing under the main theme Systems Medicine for the Delivery of Better Healthcare Services Medical and Biological Engineering and Computing cover complementary disciplines that hold great promise for the advancement of research and development in complex medical and biological systems Research and development in these areas are impacting the science and technology by advancing fundamental concepts in translational medicine by helping us understand human physiology and function at multiple levels by improving tools and techniques for the detection prevention and treatment of disease Medicon 2016 provides a common platform for the cross fertilization of ideas and to help shape knowledge and scientific achievements by bridging complementary disciplines into an interactive and attractive forum under the special theme of the conference that is Systems Medicine for the Delivery of Better Healthcare Services The programme consists of some 290 invited and submitted papers on new developments around the Conference theme presented in 3 plenary sessions 29 parallel scientific sessions and 12 special sessions **Carr V. Koch** ,2011 *Children's Bureau Publication* United States. Children's Bureau,1927

Bureau publication (United States. Children's Bureau). no. 179, 1927 ,1927 Hell in Hurtgen Forest Robert S. Rush,2001 Some of the most brutally intense infantry combat in World War II occurred within Germany's Hurtgen Forest Focusing on the bitterly fought battle between the American 22d Infantry Regiment and elements of the German LXXIV Korps around Grosshau Rush chronicles small unit combat at its most extreme and shows why despite enormous losses the Americans persevered in the Hurtgenwald meat grinder On 16 November 1944 the 22d Infantry entered the Hurtgen Forest as part of the U S Army's drive to cross the Roer River During the next eighteen days the 22d suffered more than 2 800 casualties or about 86 percent of its normal strength of about 3 250 officers and men After three days of fighting the regiment had lost all three battalion commanders After seven days rifle company strengths stood at 50 percent and by battle's end each had suffered nearly 140 percent casualties Despite these horrendous losses the 22d Regiment survived and fought on due in part to army personnel policies that ensured that unit strengths remained high even during extreme combat Previously wounded soldiers returned to their units and new replacements green to battle arrived to follow the remaining battle hardened cadre The German units in the Hurtgenwald suffered the same horrendous attrition with one telling difference German replacement policy detracted from rather than enhanced German combat effectiveness Organizations had high paper strength but low manpower and commanders consolidated decimated units time after time until these ever dwindling bands of soldiers disappeared forever killed wounded captured or surrendered The performance of American and German forces during this harrowing eighteen days of combat was largely a product of their respective backgrounds training and organization Rush's work underscores both the horrors of combat and the resiliency of American organizations While honoring *Forest Genetics for the Next Millennium* ,2000 Proceedings of National Electric Light Association National Electric Light Association. Convention,1930 **Musical Forecast** ,1923 **Prediction Versus Performance** Institution

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