
Vocal Fold Dynamics Quantification Model Based Classification

the influence of epilarynx area on vocal fold dynamics - original research the influence of epilarynx area on vocal fold dynamics michael döllinger, phd, david a. berry, phd, and douglas w. montequin, phd, los angeles, california; and madison, wisconsin objective: this study investigated the influence of epilarynx area on an excised human vocal fold during phonation. **simulations of vocal fold dynamics using mp mice** - basic overview of vocal fold dynamics lungs supply pressure of 1500 pa above atmospheric pressure air flows through glottis inducing vocal folds to separate via positive pressure vocal fold material properties react to bring vf back toward initial state result is a 'pulse' of air which flows toward mouth **dynamics of a three-dimensional model of vocal fold ...** - hunter & titze: dynamics of a three-dimensional model of vocal fold abduction/adduction 4 in a similar fashion, from equations 18-22, the active or contractile properties of a muscle can be modeled. figure 1.7a shows a twitch as predicted by the equations, given a single pulse activation at several strains. **a simple nonlinear model of vocal fold dynamics for ...** - a simple nonlinear model of vocal fold dynamics for synthesis and analysis ... capture many of the details of the viscoelastic vocal fold tissue and the aero-dynamics of air flow through the vocal folds. typically, these detailed models use numerical methods such as finite elements. as a result these are high **a virtual trajectory model predicts differences in vocal ...** - a virtual trajectory model predicts differences in vocal fold kinematics in individuals with vocal hyperfunction) cara e. steppb harvard-mit division of health sciences and technology, cambridge, massachusetts 02139 **ideal particle sizes for inhaled steroids targeting vocal ...** - rated into the vocal fold area of the normal laryngeal model. three different granuloma sizes were created: small, medium, and large, with diameters of 3, 4, and 6.5 mm, respectively. we chose the large granuloma to represent 50% of length of the vocal fold of our model, with medium and small granulomas equivalent to 30% and 20% of vocal **modeling vocal fold motion with a hydrodynamic ...** - vocal fold ~vf! motion is a fundamental process in voice production, and is also a challenging problem for numerical computation because the vf dynamics depend on nonlinear coupling of air flow with the response of elastic channels ~vf!, which undergo opening and closing, and induce internal flow separation. **ventricular-fold dynamics in human phonation** - ventricular-fold dynamics in human phonation lucie baily,a nathalie henrich bernardoni,b frank müller,c anna-katharina rohlf,c and markus hessc purpose: in this study, the authors aimed (a) to ... **1-dimensional model for vocal fold vibration analysis** - 1-dimensional model for vocal fold vibration analysis beng 221 problem solving session 10/4/2013 ... the vocal fold model can be simplified as a single ... it does not allow for the interesting dynamics observed in real vocal folds. **characteristics of phonation onset in a two-layer vocal ...** - vocal fold body and cover and vocal fold geometry on phonation threshold pressure, phonation onset frequency, vocal fold vibration, and sound production efficiency. a two-layer body-cover model of the vocal fold, as suggested by hirano 1974, is used. the body layer consists of the muscle fibers, and the deep layer of the lamina propria. **modeling the effects of a posterior glottal opening on ...** - modeling the effects of a posterior glottal opening on vocal fold dynamics with implications for vocal hyperfunction) matias za~nartu b) and gabriel e. galindo department of electronic ... **curriculum vitae melda kunduk ph.d., ccc-slp associate ...** - on vocal fold dynamics using high-speed laryngoscopy and phonovibrograms. melda kunduk ph.d. funded 7/1/2008-7/1/2009, \$10,000 lsu- summer stipend program award-p.i. identifying normative data of vocal fold dynamics in healthy female subjects by high-speed digital **fluid dynamics of the human larynx and upper ...** - 2. fluid dynamics: the laryngeal jet and vocal fold disturbances have pronounced effects on airstream motion in the tracheobronchial (tb) tree. 3. function: the larynx has an independent physiological role from that of the respiratory tract, namely, speech. 4. health effects: the larynx experiences **dynamics of the vocal fold oscillation1 - sbmac** - dynamics of the vocal fold oscillation1 j.c. lucero2, department of mathematics, unb, 70910-900 brasília, df, brazil. abstract. this paper presents an analysis of the dynamics of the vocal fold oscillation at phonation, using low dimensional mathematical models. it shows that the **prephonatory laryngeal and chest wall dynamics** - prephonatory laryngeal and chest wall dynamics stephen a. cavallo rutgers university, new brunswick, nj ... simultaneous electroglottographic and airflow records provided information about vocal fold behavior. independence of prephonatory laryngeal and chest wall behavior was demonstrated. laryngeal adjustment preceded the start of vocal fold

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