## 11210885.txt

physiological air on

Subject: cardiovascular diseases / cancer / autism / other

quality o: other of female laryngecomees and/or laryngcomees with a hypotonic pharyngoes phageal (PE) segment by means of a pnedmatic artricial so incorporated in a STUDY DESIGN Experimental, randomized, crossover trial. , which performs an oscillatory movement driven by expired pulmonary air flowing along the outward-striking lip through METHODS The new sound source consists of a single www. A prototype of this pneumatic sound source is evaluated in vitro and in ryng comees. In vivo evaluation includes maximal O: Physical phonation intelligibility evaluation O: Mental voice O: Mental O: Physical measurements with 12 listeners, and self-assessment by the patients. Moreover, extensive acoustical and aerodynamic in vivo registrations are performed using a newly developed data acquisition system. RESULTS The current prototype seems beneficial in laryngg mees with a hypothnic Electronic only. For them the sound producing voice O: Mental , without decreasing intelligibility o: Other or and increases the pitch O: Mental of O: Mental pressure o average O: Mental Other reguation of this prosthetic voice is possible, yet limited. rates O: Physical than regular E shurt speed and O: Physical airflow O: Physical Pitch O: Physical CONCLUSIONS The mechanism is feasible and does not result in unacceptable airflow O: Physical . For this new mechanism of alaryngeal voice to become an established technique for resistance O: Physical ctomy veces restor in n, a voice suitably pitched for make arynge conees has to be generated and a large part of the melodic and dynamic range of the sound source has to be attainable within