Society for Computational Fluid Dynamics of the Nose & Airway

June 5 | Chicago USA

PROGRAM

VENUE: SUPERIOR ROOMS A & B, SHERATON GRAND, CHICAGO

7:30: REGISTRATION 10:00: COFFEE

8:00 SESSION 1: CFD IN THE NOSE: THE MISSING LINK IN RHINOLOGY?

10:30: SESSION 2: CLINICAL APPLICATIONS OF SINONASAL CFD

No.	TITLE	No.	TITLE
1.1	Convener's welcome (Garcia G, Frank-Ito D)	2.1	Clinical perspective: The importance of objective testing in
1.2	CFD in Rhinology: Clinical motivation and historical perspective (Rhee J, Kimball J)	2.2	rhinology (Singh N) Diagnosis of nasal obstruction via CFD (Garcia G)
1.3	Experimental validation of CFD in the nose and upper airways (Doorly D)	2.3	Virtual surgery driven by nondimensional estimators (Burgos M)
1.4	CFD validation of nasal airflow under various breathing	2.4	Virtual septoplasty using CFD (Moghaddam M)
1.5	conditions (Li C) Automatic reconstruction of the nasal geometry from CT	2.5	Nasal obstruction and empty nose syndrome — what are our noses sensing? (Zhao K)
1.6	scans (Koch W) Impact of segmentation uncertainty on CFD variables	2.6	Modelling respiratory airflow in obstructive sleep apnea with prescribed motion from cine MRI (Bates A)
1.0	(Frank-Ito D)		with prescribed motion from eine with (butes 7 y

12:15: LUNCH 3:00: COFFEE

1:15: SESSION 3: NASAL DRUG DELIVERY

3:30: SESSION 4: FRONTIERS & NEW RESEARCH

No.	TITLE	No.	TITLE
3.1	CFD modeling of nasally administered drug products in regulatory science research at the US FDA (Walenga R)	4.1	CFD in Rhinology: Where are we and what comes next? (Kimball J)
3.2	Multiphase flow analysis to improve therapeutic outcomes for treating nasal diseases (Inthavong K)	4.2	Quantifying airflow limitation due to dynamic lateral nasal wall collapse (Newsome H)
3.3	Exploring nasal sprays positioning to improve targeted drug delivery (Basu S)	4.3	Critical evaluation of methods determining the influence of elasticity of the lateral nasal wall (Vogt K)
3.4	Improving olfactory targeting: tackling the bottle-neck problem in nose-to-brain drug delivery (Xi J)	4.4	Looking for a relationship between chronic otitis media and nasal obstruction: a CFD analysis (Burgos M)
3.5 3.6	How to measure sinus ventilation with CFD (Calmet H) Distribution, pressure, and shear stress mapping within an	4.5	Quantifying the effect of maxillary skeletal expansion on the airway in adult orthodontic patients using computa-
3.0	anatomically accurate nasal airway model during		tional fluid dynamics (Fraser A)
3.7	simulated saline irrigation (White D) Nasal nitric oxide (nNO) dynamics and the ostiomeatal	4.6	Airflow limitation in a collapsible model of the human pharynx (Le.T)
	complex: Fertile ground for CFD? (Shusterman D)	4.7	Future novel targeted treatment options of nasal obstruction and olfactory losses (Zhao K)
9.			

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