## #0124: A multimedia library of interstitial lung diseases at the University Hospitals of Geneva

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Summa	ary			
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	Title: A multimedia library of interstitial lung diseases at the University Hospitals of Geneva			
	Body: Purpose			
space. The diagnosis of these pathologies is established or and characteristics of given clinical parameters. When requ (HRCT) of the chest is carried out to obtain an accurate vi interpretation of HRCT is often challenging with numerous computerised software and a database to assist the radiol			thologies is established on common radiolocal parameters. When required, high-resolut to obtain an accurate visual assessment of hallenging with numerous differential diagno tabase to assist the radiologist to the diagno	gical exams, lung function tests, ion computed tomography of the lung tissue. Since the oses, we aim at developing osis workup of ILDs.
Methods and Materials				
A raw list of patients that underwent a thorax HRCT within a stay in the pneumolog and 2008 was retrospectively extracted from the data repository of the EHR. The di cases were retraced in the EHR based on the clinical history, reports and the clinical radiographic (HRCT) impression was consistent with the verified diagnosis, 3D regi showing pathological as well as healthy lung tissue were delineated in the HRCT im			eumology service between 2003 . The diagnoses of each of the e clinical examinations. When the 3D regions of interest (ROI) IRCT images.	
		Results		
		So far, 60 cases with annotated HRCT image series and a set of 99 clinical parameters were entered into database. 8 diagnoses were retained as occurring sufficiently often (see Table). 1168 ROIs showing 16 ty of lung tissue were delineated in 72 images series.		
		Diagnostic	Cases	
		Fibrosis	24	
		Drug hypersensitivity pneumonitis 9		
		Miliary tuberculosis	7	
		PCP	4	
		BOOP	5	
		Extrinsic alveolar allergic	3	
		Sarcoïdosis	2	
		Acute Interstitial Pneumonia	6	
		TOTAL	60	
	Conclusion			
		The database contains 40% of the 150 projected cases. Computer tools have been implemented to browse the database enabling its use for teaching. The structured multimedia information allowed using the stored data to carry out research on an image-based diagnosis aid tool for ILDs.		