CYSTIC LUNG DISEASE Link to the onepagericu.com by Nick Mark MD ONE most current **♥** @nickmmark version → Very Thin (<1mm) **DEFINITIONS:** · COPD (UL) · Ritalin Lung **EMPHYSEMA** or **no walls**" · a1AT (LL) (LL predom) Emphysema descriptors: Cyst mimics: • BLEBS <2 cm CYSTIC BRONCHIECTASIS -Thick walled Are air-filled areas present within Malignancy · Septic emboli CAVITY • BULLAE > 2 cm (>4mm) • Dilated airways (not real cysts) the lung parenchyma? Infection Vasculitis • GIANT BULLAE > 30% of hemithorax HONEYCOMBING -**Thin** walled **CYST** • ≥3 adjacent air-filled spaces o (1-4mm) • seen with emphysema, not with cysts **Upper Lobe** predominant Diffuse Lower Lobe predominant LANGERHANS CELL HISTIOCYTOSIS LYMPHANGIOLYOMIOMATOSIS **BIRT-HOGG-DUBE** LYMPHOCYTIC INTERSITIAL NEUROFIBROMATOSIS TYPE 1 (LCH) (LAM) (BHD) PNEUMONITIS (LIP) (NF1) Smoking-associated inflammation Genetic or spontaneous, assoc. Genetic: AD folliculin (FLCN) · Autoimmune (Sjogren's · Genetic; neurofibromin (NF1) mutation, $Q = \vec{O}$ prevalence σ">₽ w/ tuberous sclerosis (TSC), Q >> 0syndrome) & immunodeficiency · Skin: café-au-lait spots,axillary Chest: UL · Skin: facial angiofibromas Kidney: chromophobe RCC (HIV) associated inflammation freckling, neurofibromas, predominant · Skin: fibrofolliculomas and · Kidney: Angiomyolipoma tumors · Dense lymphocyte infiltrates; · Chest: UL 'bizarre shaped' · Chest: *Uniform size* angiofibromas overlap with FB predominant diffuse distribution · Chest: LL cvsts & 0 · Chest: LL cysts, 0 'stellate shaped' of cysts, Intralobular predominant Predominant cysts emphysema, & centrilobular thickening, & lentiform cysts; in bronchovascular bullae, & LL nodules (1-5mm) pleural effusions 0 often presents distribution fibrosis (chylothorax) with PTX PNEUMOCYSTIS JIROVECI **PARACOCCIDIOIDOMYCOSIS** LIGHT CHAIN DEPOSITION DISEASE **DESQUAMATIVE INTERSTITIAL FOLLICULAR BRONCHIOLITIS** (LCDD) PNEUMONIA (PJP) PNEUMONITIS (DIP) (FB) · Infectious: occurs in individuals · Infectious; occurs in rural workers Lymphoproliferative disease assoc Smoking-associated ILD often Associated with collagen vascular (esp multiple myeloma) causing with severe immunocompromise (immunocompentent) in S. America associated with RB-ILD; ♂>♀ disease & immunodeficiency · Chest: centrilobular $\sigma > \Omega$ (HIV CD4<200, BMT, etc) non-amyloid deposition of Ab; $Q = \mathcal{O}$ · Chest: LL GGOs and nodules. · Causes diffuse LAD and can cause · Kidney: Proteinuria/nephrotic predominant and · Chest: UI sometimes with granulomas in many organs syndrome

pneumotoceles &



HYPERSENSITIVITY PNEUMONITIS

Usually causes GGO and mosaicism

rarely may cause **UL** cyst formation

EHLERS-DANLOS SYNDROME

rarely may develop diffuse cysts

Genetic connective tissue disease.

Inflammation due to inhaled

antigens, forming granulomas

predominance, reverse halo sign,

cavitations, and bronchiectasis.

Chest: scattered cysts without lobar

AMYLOIDOSIS · Can occur with 1° or 2° amyloidosis

· Chest: diffuse peripheral thinwalled cysts, often also with nodules (including endobronchial) or masses

PROTEUS SYNDROME

· Rare Genetic syndrome (AKT1) that may present with diffuse cysts

CYSTIC PULMONARY

causes cavitary (thick walled)

· Diffuse cysts can be seen with epitheliod metastasis, & rarely with Subpleural/basilar predominant cysts

of uniform small

HPV infxn; very rare.

size with

associated GGOs

medium to large LL

predominant cysts

running along

bundles

bronchovascular

CONSTRICTIVE BRONCHIOLITIS

 Occurs due to viral, autoimmune, or GVHD. Typically causes mosaic attention & bronchiectasis. Rarely causes few small diffuse cysts

HYPER-IGE SYNDROME

METASTATIC DISEASE

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Metastastic malignancy usually

· Chest: variable

nodules, & LAD

sized cysts,

lesions.

adenocarcinomas/sarcomas as reported here

nodules that turn into cysts. FIRE-EATERS LUNG

· Chest: usually endobronchial

lesions, rarely diffuse pulmonary

· Aspiration of flammable petroleum compounds causes inflammation; leading to cavitary or cystic disease

PULMONARY PAPPILLOSIS (PP)

· Infectious; vertically transmitted

Immunodeficiency/STAT3 mutation

causing sinopulmonary infections, & rarely pneumatoceles & cysts.