RESP.

CANC

- CARCINOMA
  - ADENOC
  - SCC
  - CLIN
  - OTHERGF
  - EGFR
  - PANEOP SD
  - PLEUR EFF
  - HOARSENESS
  - PANCAST SD
  - HORNER – SUP VENA CAVA SD
  - ATYP ADEN HPLAS
  - BALV UROINIC G SMALL & LARGE CELL
  - CLASS
  - ATYP TYP
- CARCINOID TUM
  - GEN
  - METASTASES
- ALV PROTEINOSIS
- ATELECTASIS
  - NEONATORUM
    - II
    - I
    - PREMIU PET ANOXIA
  - ACQ
    - = ALV COLLAPSE
- MISC
- FUNGAL FUNG-LIKE BACT
- MYCOB AVIUM-IC
- TBC
- IMM MEC PG
  - TYPES
  - GEN
  - II
  - IGHON
- HOSP ACQ GO
- ABSCESS
  - BOBSTR GANGEN ASP
  - = LOC AREA SUP
- PNEUMONIA
  - AIDS
  - PNEUMOCYSTIS JIROVECI
  - VIR
  - MYCOP
  - INTERST ATYP
  - INT P PATH
  - BP
  - LOB P
  - BACT
  - MORPHO TYPES
  - GEN
  - MISC
  - ↑ ALV CAP PERMEAB
  - ↑ BdFLOW
  - ↑ VISCOSITY
  - ↓ CL
  - NEJ BOINS
  - COPD
  - YOUNG GO PUER LES
  - DIP
  - TI WORST
  - HONEYCOMB
  - IMP HISTOL
  - DIF TEM
  - UNIF
  - NIP
  - UIP
  - IDIOP
  - BRONCOG CA
  - MAL MESOT
- EDEMA
  - CHILLS FEV RUSTY SPUTUM
  - HEMOR RED INFARCTS
- HT
  - II Y
  - RV HYPERT
- PE
  - I Y
  - ?
  - STASIS
  - VENOUS
- VASC
- HS PNEUMONITIS
- EOSINOPHILIC
  - BRONCHOCENTRIC GRANULOMAS
  - GRAN
  - HISTIOCYX
  - LEC INTERS PNEUMONIA
- OTH INTERST
- UNKNOWN ETIO
- SARCOIDOSIS
  - AFRIC YOUNG
  - CAS GRAN OF SYST
- ASBESTOSIS
  - FER BODIES
  - DIF INT FIB
  - HYAL FIBROCA PLAQUES
  - PAR PLEURA TBC
  - NODULES
- SILICOSIS
  - BE
  - PHT
  - PROGMASSIVE FIB
  - MALIGNES
- COAL WORKER PNEUMOCON
- ANTHRACOSIS
  - INHD OF DUST PART
  - C-CAM
  - MCA
- HYAL MBD
- NEONAT
- ARDS
  - EXPANDING ↑ TLC
  - BONY ON NMD
  - SLE
  - DIF ALV DAM
  - INTERST
  - SS VASCOMM
  - INTRA ALV HYAL MB
  - GOODP
  - GEN
  - PG
  - PATHO FIND
  - COMPLICON
  - BPD
  - PDA
  - WEL ENTEROC
  - INTRAVENT BHEMOR
  - MALIGNES
  - BE
  - PHT
  - PROGMASSIVE FIB
- RESTRIC GEN
- BRONCHIECT
  - PERMANENT DILAO
  - B° OBST°
  - C SINUSITIS
  - VIAN AGNEUR SD
  - SIN-US
  - B
  - SINUSITIS
  - IGIL DYSKINESIA
  - ♂ INFERT
  - HER
  - SMOK
  - DEFIC-U
  - α1 AT
  - IMZ ALVEC
  - HOMOZYG22
  - POSTULATED CAUSES
  - CONGEN
  - PANACINAR
  - PARASEPTAL
  - IRREG
  - INTERST
  - GRAVE PURULENT SPUTUM
  - ENT ABS
  - GOODP
  - MOLE SURFAC MANNITY
  - PREDISPE
- EMPHYS
  - GEN
  - TYPES
  - COMPLIC
  - DILAO OF AIR SPACES
  - CENTRILOBULAR
  - PANACINAR
  - PARASEPTAL
  - IRREG
  - INTERST
  - POSTULATED CAUSES
- BA
  - BRONCHIAL ASTHMA
  - EXT
  - INT
  - IMMU
  - IRRIT
  - AIRFLOW OBSTRUCT
  - MILD
  - EXOG ECOLD ADULT
  - CHAR DYSP WHEEZING EXPIR
  - COMPLIC
  - IFC
  - STATUS AST
- CB
  - BRONCHIAL INFLAMMATION
  - SMOK
  - GR PULM
  - HYPERPLAS MUCUS SEC SUBMUC GLANDS
- UPPER TUM
- NOSE ANAS SIN
- OROPHAR
  - TONSILS KER ATINIZING
  - SCC
  - HIGH RISK HPV
  - BEN POL STRICT
  - TUME VC
  - SINGERS NODULE
  - SQUAM PAP
  - BEN
  - JUV-OSIS
- LAR
  - SCC
  - MUSTGM
  - GLOT
  - SUPRAG
  - SUB
- ANGIOFIBR NASOPHAR
  - EBV
  - SCC
  - ADENOC
  - OLF NEUROBLAST
  - PLASMACYTOMA
  - EMB RHABDOMYOSARC
- + EPIG VIRAL
- ALAR TRAC BRONC = CROUP
- SINUS
- A EPIG
- LAR
- A RHIN
  - EOS
  - I IMM
  - ALLERG
  - GM COLD
  - BACT
  - PARAINFL
  - ADENOV
  - AI

NIGLASLEVY.NET

SCHNEIDER 2013

DISORDERS UPPER RESP. TRACT

COM

- ADENOVIRUSES
  - MOST COM
  - ALL AGES
- RHINO VIRUS
  - SNEEZING
  - NAS CONGES°
  - MILD SORE THROAT

COLD ALLERGIC

- IgE TYPE I°
  - MAST
  - MUC 1
  - SUBMUC → EOS
  - PBO!
  - NAS DISCHARGE

-ITIS

RHINO-

- BACTERIAL
  - MAYBE SUPERIMPOSED
  - BY INJURED MUCOSAL GIGIA
  - ENV → TO MUCOSAL
- VIRAL
  - ON
  - A VIRAL
  - ALONG BRONCHITIS

SINUS-

- OFTEN
- PARANAS
  - STAPTOC
  - STAPHYL
  - HAEMOPHILUS influenzae
  - FIBROUS SCARRING
  - EXTEN° NAS CAV
  - DENTAL IFC
  - ↓ VASCULARITY
  - ↑ MUCOSAL EDIT
  - ↑ MUC GLANDS
  - MAY BE
  - DRAIN OUTLETS FROM SIN
    - ⇓ A CUMULUM° MUCOID SEC° VEST DUCTS

LAR-

- ACUTE
  - B
  - ↓
  - IRRITANTS
  - OVERUSE VOICE
  - IFM
  - EDEMA
  - VC
  - ⇓ HOARSENESS

A LARYNGO = CROUP

- VIRAL
  - INSPIRATORY STRIDOR CHAP
  - HARSH COUGH
  - MOST OFT
  - LIFE THREAT
- INFANTS

+EPIGLOTTIS

A EPIG

- USUALLY
- +/- influenzae
- MAY BE
  - LIFE-THREATENING
  - YOUNG

NL

SCH

TUMORS UPPER RESP TRACT

NOSE ANAS SIN

- ADENOCA
  - 5% MAL NOSE TURBT
  - TYP
    - INVERT
    - NON INVERT
- OLF NEUROBLASTOMAS
  - SMALL BLUE ROUND
  - NEUROBLASTOMA MIX
  - OLDER ♂
- PLASMACYTOMA
  - ≠ PEDIATRIC
  - ADREN
  - ABD
- EXTRAOSSEOUS PLASM
- EMBRYONAL RHABDOMYOSARC
  - AGGRESSIVE
  - RESERVE
  - YOUNG
- ♂ → 40
- ♀ ↔
  - CIGAR
  - SMOK
  - ALC
  - NOT ★ HPV
  - USUALLY
- VASC MAJ IN THIS LOC
  - HIGH RISK HPV 16
  - TONSILS PALAT
  - LING
  - NONKERATINIZING + BASALOID MORPHOLOGY
  - COMPARED WITH HPV ⊖VE
- OROPHAR SCC
  - HPV ⊖VE
    - ALCOHOL
    - TOBACCO
    - USUALLY
  - ⊕VE
    - OVERALL IT BETTER
    - HOWEVER
    - DESPITE HIGHER STAGE AT PRESENTN
    - YOUNG
    - SMOKING
    - CERVICAL LN METS
- NASORHAR CA
  - MOSTLY MAL
  - SQUAM SCC
  - EBV
  - MOSTLY GM
    - EAST AFRICA
    - SOUTH ASIA
  - PLASMACYTOID LYMPHOEPITHELIOMA
- ANGIOFIBROMA
  - LOC AGGRESSIVE
  - BEN
  - +HISTO
  - MOSTLY GM
  - TTL WAS SMALL
  - ADOS ♂
  - NAME
  - VASC

LAR

- MOSTLY MAL
- INITIALLY POLYPOIDAL HOARSENESS
- SCC
- JUVENILE LAR PAPILLOMATOSIS
  - RECURRENCE AFTER RESEC IS COMMON
  - SPONTANEOUS REGRESSION
  - MULTIPLE LES
    - (SAME TYPES CONDYLOMAS
    - 11 ||
    - 6
    - MILD ADOS
  - MALIGNANT TRANS
  - USUALLY CERVICAL MOUTH TRUE VC
- SQUAM PAPIL
  - LARYNX HPL
  - BEN
- SINGER'S NODULE
  - SMALL
  - BEN POLYP
  - CIRRHO
  - VOICE
  - HEAVY SMOKE
  - TRUE VOC CORDS
- GLOTIC CA
  - SUPRAG / SUBG CA
  - TVC
  - MOSTLY GM
  - BEST II
  - LESS GM
- COMMON II
  - ALCOHOL
  - TOBACCO
  - USUALLY

NL SCH

COPD

BRONCHIECTASIS

- BE
- SITUS INVERSUS
- KARTEGENER SD
- IY CIL DYSKINESIA → ♂ INFERTILITY
- C SINUSITIS
- PREDISP
- COPIOUS PURUL SPUTUM ---> LUNG ABSCESS
- B OBSTRUCT
- PERMANENT @ N BRONCHIAL DIL°
- FILLED WITH MUCUS ± NEUTROP
- iFM + NEC
- B WALLS
- ALV FIBROSIS
- KARTAGENER
- MIZALL
- HER2
- SMOK
- POSTULATED CAUSES
- INTERSTITIAL EMPHYS
- COMPLIC°
- IRREGULAR
- PARASEPTAL
- PANACINAR
- CENTRILOBULAR
- TYPES
- DEFIC ⍺1AT
- LUNG ELASTICITY
- DIL° AIR SPACES ANORMAL
- + DESTRUC° ALV WALLS
- HYPERPLASIA MUCUS-SECRETING SUBMUC GLANDS
- GR PULMONALE
- SMOKING
- THICKNESS GLAND LAYER / BRONCHIAL WALL = ↗ REID INDEX

GEN

- AIRFLOW OBSTRUC°
- FEV1 ↓↓
- VN FVC ↑
- FEV1/FVC ↘
- ≠ RESTRICTIVE
- LC ↘
- DUE TO
- CW
- SKEL
- aN
- KYPHOSCOLIOSIS
- INTERS
- INFILTRATIVE
- PAREN C
- BOTH ★ PROPORTIONATELY
- FEV1
- FVC
- NORMAL FEV1/FVC ↗

BA

- BRONCHIAL ASTHMA
- SMOOTH M HYPERTROPHY
- HYPERPLASIA B SUBMUC GLANDS & GOBLETS
- AIRWAYS PLUGGED BY
- EXTRINSIC
- IMMUNE
- TYPE I HS
- CHILD
- INTRINSIC
- NON IMMUNE
- VISCID MUCUS CONTAINING
- EXERCISE
- GOLD
- ADULT
- CHAR
- DYSPNEA + WHEEZING EXPIR°
- CURSCHMANN SPIRALS
- EOS
- CHARCOT LEYDEN CRYSTALS
- SUPERIMPOSED IFC
- ↓ MAY STATUS ASTHMATICUS
- COMPLIC°
- CHRONIC BRONCHITIS
- ASSOCIATED WITH

NL

SCH

BA

COMP°

- E
- MAST
- BEGINS CHILDHOOD
- USUALLY FAMILY HISTORY
- IHS RESPONSE
- EXTRINSIC
  - IMMUNE
- TYPES
- INTRINSIC
  - NON IMMUNE
  - CB
  - OTH
  - EXERCISE
  - COLD
  - ADULT ONSET
  - INDUCED
- = PROLONGED BOUT
  - DAYS
  - RESPONDS POORLY TO THERAPY
  - CAN
  - DEATH
- STATUS ASTHMATICUS
- MAY LEAD TO
- EMPHYSEMA
- CB
- SUPERIMPOSED IFC

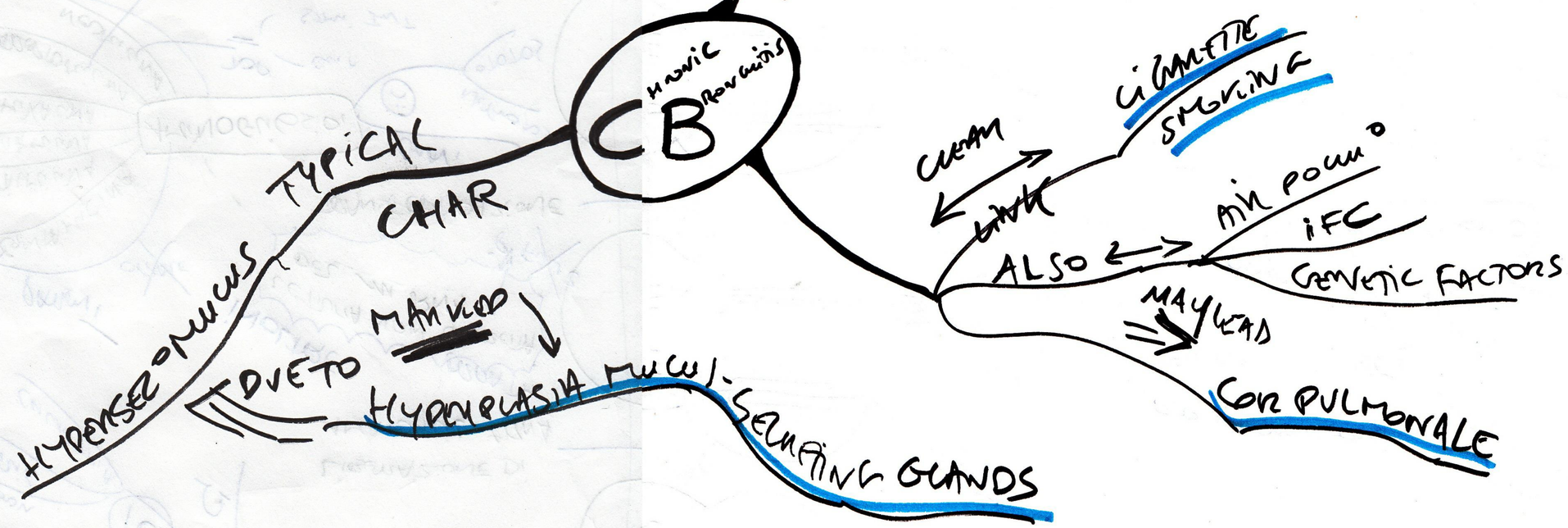
BRONCHIAL ASTHMA

- CHAR
  - ++ EPISODIC
  - DYSPNEA
  - WHEEZING EXPIRA°
  - NARROWING AIRWAYS
  - SENSITIVITY
    - AIR PASSAGES TO STIMULI
- MORPHO
  - BRONCHIAL SMOOTH M
    - HYPERTROPHY
    - HYPERPLASIA
      - + BRONCHIAL SUBMUC GLANDS
  - GOBLET C
  - XXXXBM
    - THICKENING
    - HYALINIZAO
  - EDEMATOUS
    - PROLIFERAO
  - INFLAB
    - AIRWAYS FILLED BY VISCID MUCUS
      - MUCOUS PLUGS
      - CURSCHMANN SPIRALS
      - ACCUMULAO EPIT C
      - WHORL-LIKE
      - CRYSTALLOIDS (EOS)
      - DERIVED FROM CHARCOT-LEYDEN CRYSTALS

NL

SCM

14.3.3


CHRONIC BRONCHITIS
CLINICAL DEFINITION
COUGH PRODUCTIVE
AT LEAST 3 CONSECUTIVE MONTHS
OVER AT LEAST 2 CONSECUTIVE YEARS
CIGARETTE SMOKING
CREAM
AIR POLL°
IFC
ALSO
GENETIC FACTORS
MAY LEAD
COR PULMONALE
TYPICAL CHAR
HYPERSEC° MUCUS
DUE TO
MAINLY
HYPERPLASIA MUCUS-SECRETING GLANDS

NL

SCH

16.3.

POSTULATED CAUSES

EMPHYSEMA

TYPES

GEN

- α_1 AT DEFIC
  - SUB SMALL GROUP CASES
  - PANACINAR EMP
  - CAUSED VARIANTS
  - Z ALLELE → STIMULAR ACTIVITY IN P. INCLUSIONS WITH HEPATIC SEC.
    - HEPATIC DROPOUT
    - LIVER DAMAGE
  - HOMOZYGOTE
    - ACTIVITY ↓↓ α_1 AT
    - PANACINAR EMP
    - 10 YRS HEP CIRRHOSIS
  - ZZ
- DIFFUSE AIR SPACES
  - + DESTRUC ALV WALLS
  - ∅ ELASTIC RECOIL
  - STRONG ↔ CIGARETTE SMOKING
- CLI
  - TVC
    - HYPOXIA
    - CYANOSIS
    - RESP ACIDOSIS
  - MX-II ∅ QUEST
- CIGARETTE SMOKING
- HEREDITARY
- ACTIVATES α_1 AT
- INACTIVATES α_1 AT
- ELASTIN
  - ALV WALL
  - ↑ DESTRUC
  - ↓ ELASTASE
- ELASTASE
  - PROTEOLYTIC ENZ
  - NEUT
  - MØ
  - ATMØ
  - → ELASTASE
- ANTIPROTEASE - ANTIELASTASE ACTIVITIES OF α_1-AT
  - UNLESS NORMALIZE
- PNX
  - RUPTURE SUBPLEURAL BLEB
  - ALVEOLAR WALLS
    - INTO INTERSTITIAL TISSUES
    - FROM A BRONCHUS OR BRONCHIOLE
    - OF NEST
    - INTERSTITIAL EMPHYSEMA
      - COEXISTENT
      - BY OR OFTEN
      - CB
- COMPLIC°
  - + SCARRING IN WALLS OF ENLARGED SPACES
  - IRREGULAR
    - IRREGULAR INVOLVEMENT ACINUS
    - OCCASIONALLY
    - PARASEPTAL
      - VARIOUS IDM PROCESSES
      - USUALLY COMPLIC°
      - ★ MESIAL EXTENT
        - ALV DUCTS
        - ALV
      - SUBJACENT TO PLEURA
      - ↓ INTRALOB TENDS TO SPARE LOBULE
      - MAINLY DILA°
      - LARGE SUBPLEURAL BULLAE = BLEBS ↔ PNX
      - DISTAL PART ACINUS
      - SOMETIMES ↓ ELASTICITY
      - =α_1-PROTEASE INHIBITOR DEFIC α_1-AT
      - GEN Y DETERMINED
      - DISTRIBUTED UNIFORMLY THROUGHOUT LUNG
  - PANACINAR
    - MOST OFTEN DILA° RESP BRONCHIOLES
    - EVENLY ACINUS
    - ALV ALV DUCTS
    - CIGARETTE SMOKING
  - CENTRILOBULAR
    - DILA° RESP BRONCHIOLES
    - UPPER PART LOBES OFTEN
    - STRONG ↔ CIGARETTE SMOKING

B° = BRONCHIOLE

NL

SCH

BRONCHIECTASIS

- CHAR
  - PRODUC°
    - ABSCESS
      - MAY
        - RECUR IFC
    - HEMOPTYSIS
    - COPIOUS PURULENT SPUTUM
  - = PERMANENT (K) CAUSED
    - ON DILA° BRONCHIAL
    - ★ CHRONIC IFC
      - + IFM
        - NEC B WALL
- PREDISPOSING F
  - BORSTNIC°
    - MOST OFTEN BY TUMOR
  - OTH
    - CHRONIC SINUSITIS
      - ACCOMPANIED BY POSTNASAL DRIP
      - RARELY MAY BE A MANIFESTATO
    - (K) CAUSED
      - = PRIMARY CILIARY DYSKINESIA SCH
        - DEFECT FOCUS
          - NET
            - AUDIT
            - SPERM
          - CILIA
- LOCALIZES BOTH LUNGS MOST OFTEN
- IMPORT MANIFESTO
  - INFERTILITY
    - ♂ STERILITY
      - HEMINGOSS
      - SOMETIMES
        - SINS INVERSUS
        - BRONCHIECTASIS
        - SINUSITIS
    - STRUCTURAL DEFECT DYNEIN ARMS
      - PREDISPOSES
        - DISTURBS EMBRYOGENESIS SOMETIMES
        - BRONCHI
        - IFC
        - INSINUES
- AR
  - UNCOMMON
- CARTEGENER SD

NL

- . EXTRINSIC ALLERGIC ALVEOLITIS
- INHALED Ag

SPORES THERMOPHILIC ACTINOMYCETES
MOULDY HAY
FARMER

RESTRICTIVE

HS PNEUMONITIS
- ACUTE
- SUBACUTE
- CHRONIC

AGGRESSIVE HOUSEKEEPING
CHILDREN
FIBROSING
TEMP / METAB
UIP
NIP
DIP
IDIOP
TEEN YOUNG
MALE PREDOT
BG CA
AFRICAN
?
SARCOIDOSIS
CXR
GRAN
UNKNOWN ETIO
IPF : INTERS PNEUMONIA
≠ PULM GRAN
GOODPASTURE WITHOUT RENAL INVOLV

OTH INTERST
- EOSINOPHILIC GRANULOMA
- LANGERHANS
- RESTRICT
- REDUCED EXPANSION LUNG
- TLC
- BONY CAN
- NMD
- CHEST WALL
- GEN

ALSO INCLUDE
INTERSTITIAL
ACCUMULATION OF NON C MAT
DUST RESPIRATORY DISTRESS SYNDROME
ARDS
- IMMUNE MEDIATED DAMAGE
- DAD
- INTIMAL HYALINE MB
- SLE
- SS
- WEGEN GRAN
- GOODPASTURE SD

ASSOCIATION
CHEM
DRUG
- BENYLIOSIS
- BLEOMYCIN

+ PNEUMOCYSTIS PNEUMONITIS + GN
ALV GLOMERULAR BMT
PNEUMONITIS
RHAT OA
VASCULAR

INVALV WALLS
IMPAIRED GAS EXCHANGE

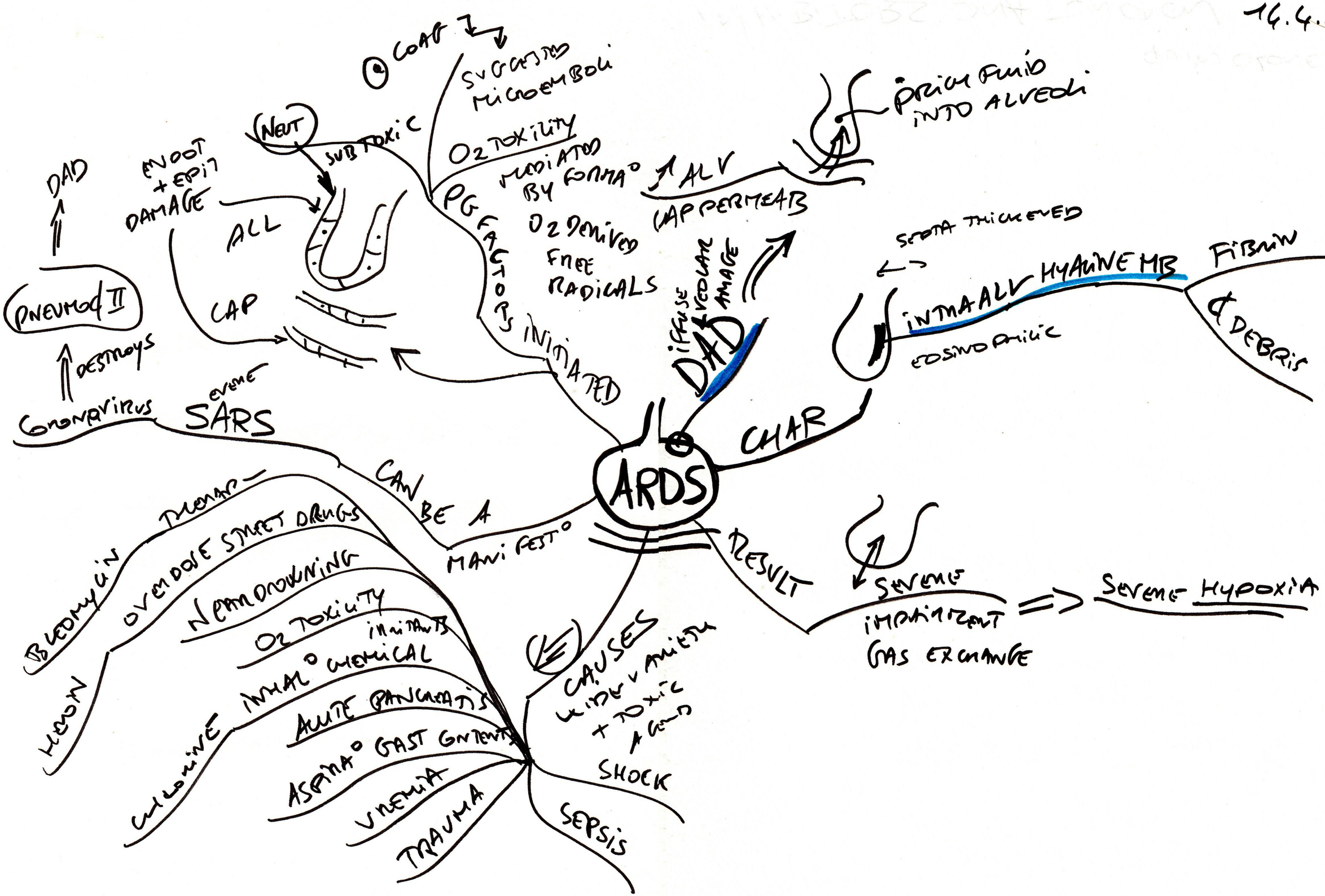
NEONAT
- HYALINE MB D
- GEN
- PG
- PNEUMOSP
- ROLE SURFACTANT
- FETAL PULM MATURITY
- LECITHIN
- SPHINGOMYELIN
- [PHOSPHATIDYL GLYCEROL]
- LAMELLAR BODY COUNT
- FLUOR POLARIZ ASSAY
- SCH

PATHO

PNEUMOCONIOSES
- HYALINIZED FIBROUS PLAQUES
- PAN PULM BENIGN
- DIF INT FIB
- ASBESTOSIS
- ↑ BRONCH PHT
- TBC
- NODULES SILICOSIS
- PROGRESSIVE MASSIVE FIB
- SIMPLE NODULES
- COAL WORKERS
- ANTHRACOSIS
- C DUST CARRYING MΦ
- INHALED INORG DUST PARTICLES
- NEOPLASTIC
- INVAGINATED BRONCH EPITH
- BP DYSPLASIA
- COMPLICATED
- PROLIFERATIVE HISTIOCYTIC REACTION (LANGERHANS) SKIN

NL

16.4.2


COAG
SYSTEMIC MICROEMBOLI
NEUT
SUB TOXIC
O2 TOXICITY
MEDIATED BY FORMATION
PG FACTORS INITIATED
O2 DERIVED FREE RADICALS
DAD
ENDOT + EPIT DAMAGE
ALL
CAP
PNEUMO II
DESTROYS
CORONAVIRUS
SARS
EVENT
DIFFUSE ALVEOLAR DAMAGE
ALV CAP PERMEAB
PROTEIN FLUID INTO ALVEOLI
SEPTA THICKENED
INTRA ALV HYALINE MB
EOSINOPHILIC
FIBRIN & DEBRIS
CHAR
ARDS
CAN BE A MANIFESTATION
RESULT
SEVERE IMPAIRMENT GAS EXCHANGE
SEVERE HYPOXIA
CAUSES
DIRECT VASCULITIS + TOXIC AGENTS
SHOCK
SEPSIS
TRAUMA
ASPIRATION GAST CONTENTS
ACUTE PANCREATITIS
INHAL CHEMICAL IRRITANTS
O2 TOXICITY
NEAR DROWNING
OVERDOSE STREET DRUGS
THERAP
BLEOMYCIN
HEROIN
CYCLOPHOSPHAMIDE

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SCM

16.4.3

NEONATAL RDS HYALINE MB

GEN

- MOST COMMON
- PREMATURE
- DEATH
- CAUSE
- RESP FAILURE IN NEWBORN
- DEFIC SURFACTANT
- ↑ OPEN IMMATURITY
- SHORTLY AFTER BIRTH
- DYSPNEA
- CYANOSIS
- TACHYPNEA

COMPLICATIONS ASSOCIATED CONDITIONS

- PRECIPITATED BY ↑↑
- ↓ [O2] HIGH MECHANIC VENTILATION
- FAILURE CLOSURE DUCTUS
- IMMATURITY HYPOXIA
- = FULMINANT ↓ FOR SMALL INT LARGE
- ENTEROCOLITIS
- NECROTIZING
- BPD DYSPLASIA
- PDA
- INTRA VENT BRAIN HEMOR
- ENFORCED
- LEAKAGE
- Bd PRODUCTS
- OCCASIONAL ALTERNATING
- ATELECTASIS
- HEAVIER
- ANEAS
- SMALL PULM VESSELS
- DILATED ALVEOLI
- OR ALV DUCTS
- ★
- ΔD LUNGS
- RADIO FINDINGS
- PREDISPE
- CESAREAN SEC°
- MATERNAL DM
- PREMATURITY

PC

- ROLE SURFACTANT
- ↓ TENSION
- WITHIN LUNG
- ↓ SPE
- ⊕ EXPANSION INSP°
- ⊖ ATELECTASIS EXPIR° ★
- FETAL PULM MATURITY
- CAN BE ASSESSED BY AMNIOTIC FLUID ASSAYS
- PHOSPHATIDYLGLYCEROL
- LECITHIN
- SPHINGOMYELIN RATIO OR CREATION = MATURITY
- 2:1
- IY DIPALMITOYL LECITHIN
- PREVENTED II
- PRECISE
- QUICK
- FLUOR POLARIZ° ASSAY
- LAMELLAR BODY COUNTS
- SUPPLANTED BY
- FLOW CYTOMETRY
- MECONIUM
- BLOOD
- CONTAMINAT° WITH SPECIMENS
- EVEN ..☺

NL

SCH

16.4.4

PNEUMOCONIOSES

ASBESTOSIS

ASBESTOS FIBERS

FERRUGINOUS BODIES

Fe + PCATING ON FIBERS

YELLOW BROWN CHROMO-PRUSSIAN BLUE

NO?

FIBROBLASTIC RESPONSE ⟹ DIFFUSE INTERSTITIAL FIBROSIS

ALV

FIBROBLAST ? STIMULATING GROWTH FACTORS

COLLAGEN GOBET

DENSE HYALINIZED FIBROCA PARIETAL PLEURA

++ PREDISP° BRONCHOGENIC CA

1

MALIGNANT MESOTHELIOMA

INHALA° INORGANIC DUST PARTICLES

CIGARETTE SMOKING → MUCH

PLEURA PENT

CARBON DUST

ENDEMIC URBAN AREAS

HARM

MΦ

CARBON

⇩ PATHOL: INTERST BLACK

GROSS INSPECT

AIRWAYS IBD VESSELS

ENLARGE

OBSTRUCT

SILICOTIC NODULES

ALVEOLAR DAMAGE → IFN

MΦ SILICA

LYS ENZYMES VARIOUS MEDIATORS

INITIATED

SILICOSIS

OCCUPATIONAL

STONE CUTTERS

GLASS MANUF

MINERS

FREE SILICA DUST

↑ SUSCEPTIBILITY TO TBC

SILICOTBC

PHT

BRONCHIECTASIS

DEATH ⇐ RESP FAILURE OR RIGHT SIDED

CAN

KILLED WITH NEUTROPHIC BLACK FLUID

FIBROTIC NODULES

ANTHRACOSIS

COAL WORKERS

PROGRESSIVE MASSIVE FIBROSIS

SIMPLE

COAL DUST

CARBON SILICE

INGESTION

COAL MACULES

AROUND BRONCHIOLES

MΦ

MOST CASES INCONSEQUENT DISABILITY

NL

SCM

16.4.5

SARCOIDOSIS

PRIMARY

ANCHI ALV

PULMONARY FIB

RELATED TO RESP BRONCHIOLITIS-INT LD

SMOKERS

IY

5-Y SURVIVAL → 80%

↓ MUCH BETTER THAN

IPF

SECONDARY

TOY SURVIVAL TO → 100%

TT → UIP

PATHO

CAN MIMICS ★ SMOK

DIP

DESQUAMATIVE

MISSION LOPD

DETERMINANTS FROM EPIT

IN MA ALV

NON INFECTIOUS INTERSTITIAL

RESTRICTIVE UNKNOWN ETIOLOGY

PNEUMONIAS

VARIABLE DEGREES PULM FIBROSIS

SEVERAL INTERSTITIAL PNEUMONIA

UIP

PROGNOSIS WORST MEAN SURVIVAL 4-6Y

END STAGE = HONEYCOMBING = GROSSLY MYSTIC REMODELING WITH SCARRING FIBROSIS

MOST COMMON

CTD

SD

CONNECTIVE TISSUE DISEASE

IDIOPATHIC PULM FIBROSIS

ETIO?

TEMPORAL HETEROGENEITY

= FIBROSIS AT ≠ AGES

PATHO HALLMARK

IMMUNE INVOLVT SUSPECTED

PATTERN CAN BE USEFUL TO VARIETY ETIO

NONSPECIFIC

NIP

PROGR FIBROSING NT

DIFFUSE TEMPORAL UNIFORM

DRUG REACT

HS PNEUMONITIS

CT VASCULITIS

IFC

TEEN YOUNG ADULT YEARS

AFRICAN

MANY

FREQ

CAN INVOLVE

MULTIPLE ORGAN SYSTEM

OFTEN

CASEATING GRANULOMAS

CLIN PRESENT USUALLY

GRANULOMATOUS PATHO FINDINGS

INTERSTITIUM

ENLARGED HILAR LN

UVEITIS

ERYTHEMA NODOSUM

POLYARTHRITIS

IMMUNO PHEN

SENSITIVITY

+ OFTEN ANERGY SKIN TEST

CL: POLYC HYPERGLOBULIN

ROUTINE CHEST RADIOGRAPHY

LAB

ΔDCBW

CONVENTENZ ANGIOT

HRCT

HL-BX

HL-U

LUNG INVOLVT

BIHILAR LYMPHO ADENOPATHY

DIFFUSE RETICULAR DENSITIES

VENOUS TUBERCULIN

NL

SCM

16.4.6

EOS

LCH

MONO MAC

PROMIN

OTH

LOC PROLIF

CHRONIC

CUTOP INFILTRATES

BIRBECK GRANULES

= TENNIS RACKETS

HISTIOCYTOSIS

= RELATED

LANGERHANS SKIN

PONDEROUS

EOSINOPHILIC GRANULOMA

OTH INTERS LUNG DIS

HS PNEUMONITIS

VIRTUALLY + PATIENTS = STEROIDS

JD LUNG

BONY SITES RIBS

OFTEN WITH GROUPED

HAND-SCRIVENER MANDIBLE

& LETTERER-SIWE SD

AS A MANIFESTATION OF LANGERHANS & HISTIOCYTOSIS

FORMERLY HISTIOCYTOSIS X

NL

SCH

PE

PULM VASC D

EDEMA

RAPID ASCENT TO HIGH ALTITUDE

MISC

FLUID

IMMUNO SUPP PNEUMONIA

SHOCK SEPSIS PANCREATITIS

IFM ALVEO

UREMIA DRUG OVERDOSE

ALV CAP

PERTUSS

IDIOPATHIC STEN

LVF

HYPOXIA

VC

POLYCYTHEMIA

Bd VISCOSITY

EMBOLISM

PULM CIRC

PULM Bd FLOW

CONGEN

L→R SHUNT

COPD

OTH

MOST OFTEN

PLEXIFORM LES

YOUNG

MOST OFTEN

FREQUENT

WHEN SEVERE

RARE

UNKNOWN ETIO

POOR

UNIF

HOMOG

D

HTN

OPEN VERSION

RV HYPERTROPHY

II Y

I Y

CAN RESULT

CLI

AST → SUDDEN DEATH

CAN

INFARCTS NEC

HEMOR

USUALLY

PTS

COMPROMISED CIRCULATION

2 ARMS & DUAL Bd SUPPLY

OTH PRECISE F

CAN CEM

MULT

FRACTURES

OC

CHF

LONGEST

PROLONGED REST

IMMOBILIZATION

IV VEND

VENOUS STASIS

PROL SITTING WHILE TRAVELING

CONSEQUENCES

PELVIS

LOCAL EXTREM

VENOUS THROMBOSIS

FROM

RARELY

MOST OFTEN

1/2

ALL AUTOPSIES

EMBOLISM

THROMBUS MAT

FAT

BULLET PHAGM

BONE MARROW

TUM

AF

FOREIGN MAT (AMNIO)

14.6.1

PNEUMONIA

GEN

HOSP-ACQ
GRAM ⊖VE

COMMUNITY
ATYPICAL
MYCOPLASMA PNEUMONIAE
MOST GM INTERM
CHILDREN
YOUNG ADULTS
MAY EPIDEMICS

CHLAMYDIA PNEUMONIAE
ONSET MORE INSIDIOUS
↑BACT USUALLY MILD SELF LIMITING COURSE

LEGIONELLA
↓BY COMPROMISED
WEEKS INCUBAT°
↔MAY ✱ Fever
SPUTUM
CULT INTMST
IFM GRAM⊖
ED UDATE
ALV
MACRO
INTMA ALV
MYALINE MBS

RICKETTSIAL
CATTLE SHEEP UNPAST MILK
VIRAL

PNEUMOCYSTIS JIROVECI = CARINII

ORNITHOSIS = PSITTACOSIS
CHLAMYDIA
ORNITHOSIS
IFC BIRDS

INTERSTITIAL = ATYPICAL
DIFFUSE PATCHY IFM
IN TODDS ANIMALS
ALV
WALLS
IFM
INFILTRATE EXUDATE

MORPHOTYP
✱CLIN PATTERNS

LP
LOBAR
STREPTOCOCCUS PNEUMONIAE =PNEUMOCOCCUS
↑BAND(N)
SHIFT TO LEFT

BP
BRONCHO
INTERSTITIAL
MANY STAPH AUREUS
HAEM inf
VIRUS ✱
MYCOP PNEU ✱
VIRUS ✱
MYCOP PNEUM ✱

LP
↓TACTILE FREMITUS
INTMA ALV
EXUDATE
MAY INVOLVE ENTIRE LOBE

BP
PATCHY DISTRIB°
ONE OR MORE LOBES

CLIN
FEVER
CHILLS
COUGH PRODUCTIVE
SPUTUM RUSTY
↑BD TINGED
PLEURITIC PAIN
HYPOXIA + SHORTNESS BREATH
SOMETIMES CYANOSIS
IF BACT ⇒ MOST GRAM (N) LEUKOCYTOSIS + ↑BAND(N)

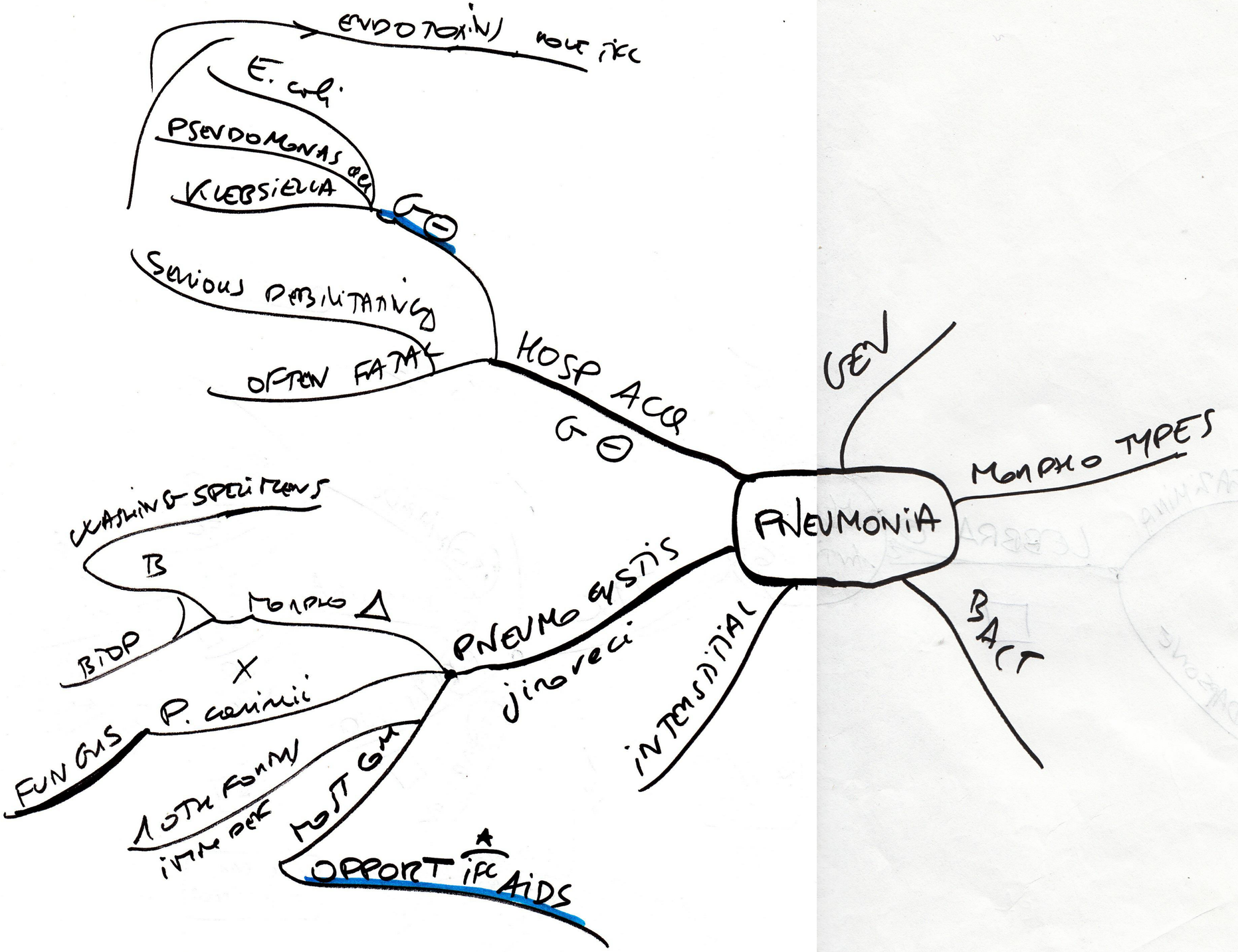
IFM
PARENCHYMA
IFC ⇒ IFM

EXANTHEMS MAY PATTERN
RUBEOLA VARICELLA (CHICKEN POX)
MEASLES
GIANT ℄ OFTEN ℄ ↑MACROBRANCHIS
RESP SYNC V
RHINO
ADENO
INFLUENZA
MC
CHILDHOOD
SPECIFIC GRO AGGLUTININ
NEC ✱ IMMUNE
VARIOUS ETIOLOGY Δ

NL

SCM

16.6.1


PNEUMONIA
CAP
HOSP ACQ
VAP
MDR/XDR TYPES
ENDOTOXIN MEDIATED
E. coli
PSEUDOMONAS aer
KLEBSIELLA
SEVERE DEBILITATING
OFTEN FATAL
CLASSIC SPECIMENS
B
BIDP
MDR/XDR
X
P. carinii
FUNGUS
1 OTH FORMS
INTRACEL
MOST CM
OPPORT IFC
AIDS
PNEUMOCYSTIS
jiroveci
INTERSTITIAL
BACT

NL

SCH

☹ = COMPLICATIONS
CHARACTERISTICS

P

LP
- EXUDATE ⇒ GW SOLIDO
- MAY
  - GW GELO
  - RED HEPAT
  - GRAY
  - RESOLU
- EMPYEMA = PUS PLEUR
- STREPTOCOCCUS PNEUMONIAE MOST FREQ
- HOSP FREQ
- PNEUMOLYSIS

iP
- CHLAMYDIA ORNITHOSES
- RICKETTSIAL
- MYCOPLASMA PNEUMONIAE
- VIRUS
  - RSV
  - RHINO
  - ADENO
  - INFLUENZA *
- DIFFUSE PATCHY INTERST AREAS
  - 1+ LOBES
- LEGIONELLA PNEUMOPHILA
  - INH° AEROSOL
  - CONTAMINATED STORED H_2O
  - AIR CND SYSTEM

BP
- B°
  - Ai
- EXTENDING
  - PATCHY 1-2 LOBES
- STAPHYLOCOCCUS AUREUS
- HAEMOPHILUS INFLUENZAE
- KLEBSIELLA PNEUMONIAE
- STREPTOCOCCUS PYOGENES
  - LUNG ABSCESS
  - OFTEN ☹
  - MEASLES
  - INFLUENZA

- MALNOURISHED
- CPD
- DEBILITATED
- ELDERLY
- E. coli
- PSEUDOMONAS
- KLEBSIELLA

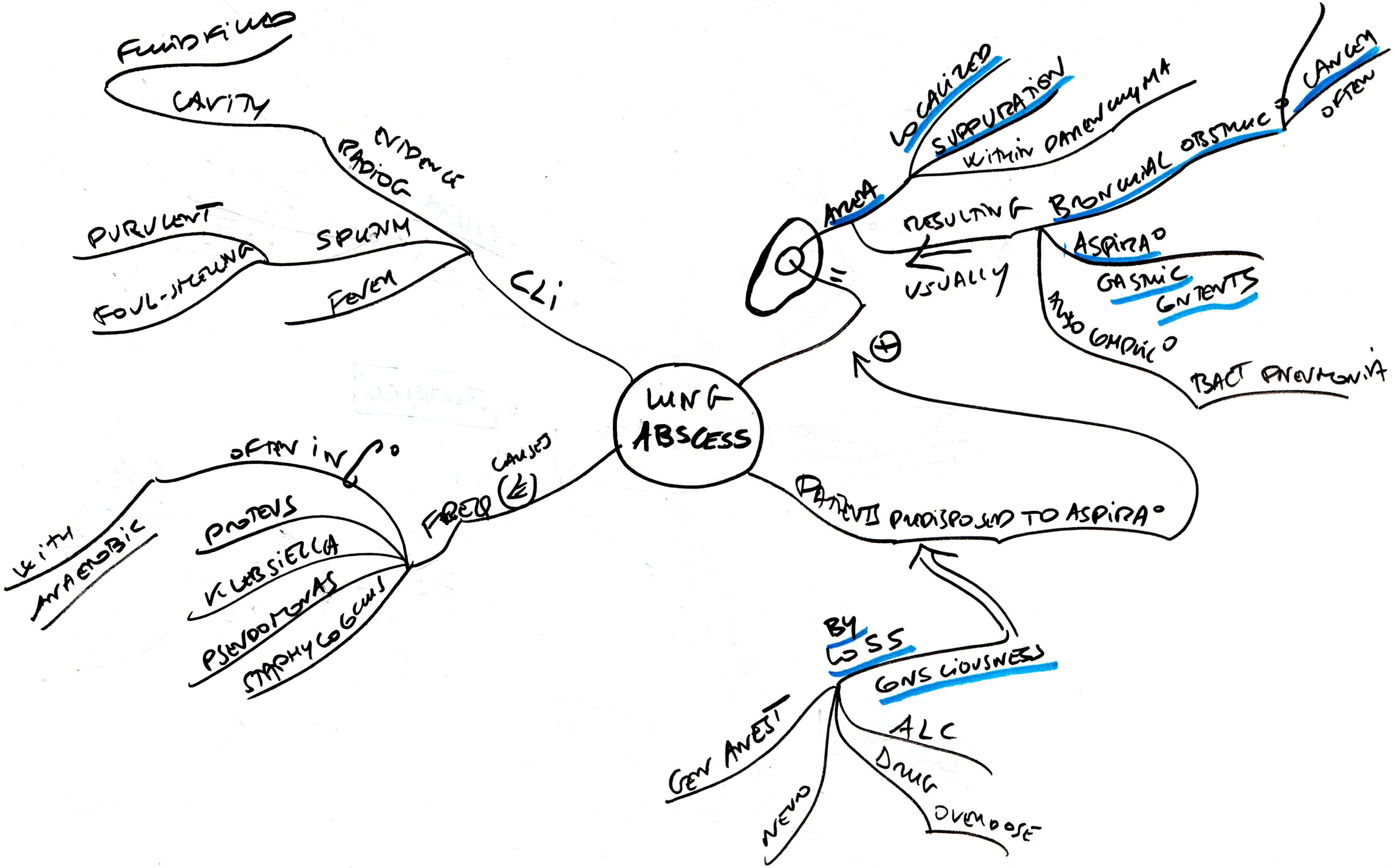
- MENINGITIS
- COPD
  - OFTEN
- DEBILITATED
- CHILDREN
  - INFANTS
- USUALLY

DEBILITATED
- HOSP
- DIAB
- ALC
- ELDERLY
- ++ MORTALITY

ALV ++ EDEMA ⇒ ABSC
- DAMAGE +
- SOMET
- INFLUENZA
  - VIRAL
  - P
- IV DRUG
- LOW BP BRONC IFC
- DEBILITATED HOSP
- ELDERLY
- CHRONIC LUNG D
- OFTEN ☹

IFM
- FOC
  - EXTD
  - OR
  - ABSCESS
- EMPYEMA
- FISTULE
- DTM IFC
  - BRAIN
  - KIDN
- ABS
- BACT
- ENDOCARDITIS

IG. 6.2


LUNG ABSCESS
CLI
PURULENT
FOUL-SMELLING
SPUTUM
FEVER
EVIDENCE RADIOG
CAVITY
FUNGAL
CAUSES
FREQ (↓)
PROTEUS
K. PNEUMONIAE
PSEUDOMONAS
STAPHYLOCOCCUS
WITH ANAEROBIC
OFTEN IN
PATIENTS PREDISPOSED TO ASPIRA°
BY
LOSS
CNS CONSCIOUSNESS
ALC
DRUG
OVERDOSE
NEURO
GEN ANEST
RESULTING
ASPIRA°
USUALLY
AREA
LOCALIZED
SUPPURATION
WITHIN PARENCHYMA
BRONCHIAL OBSTRUC°
CANCER
OFTEN
GASTRIC CONTENTS
MYOCARDIC
INFARCTION
BACT PNEUMONIA

NL

SCM

TBC

GEN

DISADVANTAGES

IMM MEC in PG

TYPES

PRIMARY

SECONDARY

CLI

NL

SCM

19.6.3

GEN

- ④ CAUSE CAS NEC ? IMMUNO → CYTOKINES
- ⑤ DELAYED HS VS TUBERCULIN SKIN TEST RESULT
- ⊕ DISADVANTAGES
- ② CD4 ⊕ PROLIF° → CYTOKINES
- ATTRACTING L4
- ③ MΦ → KILL SOME
- ALTERNAT MORPHO OR EPITHELIOID
- LANGHANS GIANT ...
- ① MΦ INGESTED
- PROCESS Ag
- MΦ
- TH1
- PSOAS ABS
- PARAVERT ABS
- POTT'S SPINE
- MENINGITIS
- EXTRA
- LYMPH VESSELS
- LYMPHAT
- HEMAT
- MILIARY
- SEED
- DISTAL ORGAN

DISADVANTAGES

- GEN
- PULM
- FORM
- NEW THROUGHOUT LIFE
- INHALD DROPLETS CONTG MYCOBACTERIUM tuberculosis Bacilli
- HS
- RELATIVE IMMUNITY
- PULM
- MOSTLY NEW INFES
- MILK
- COMBINA° PERIPH SUBPLEUR PARENCHYMES
- INVOLVED HILAR LN
- 5.0

TYPES

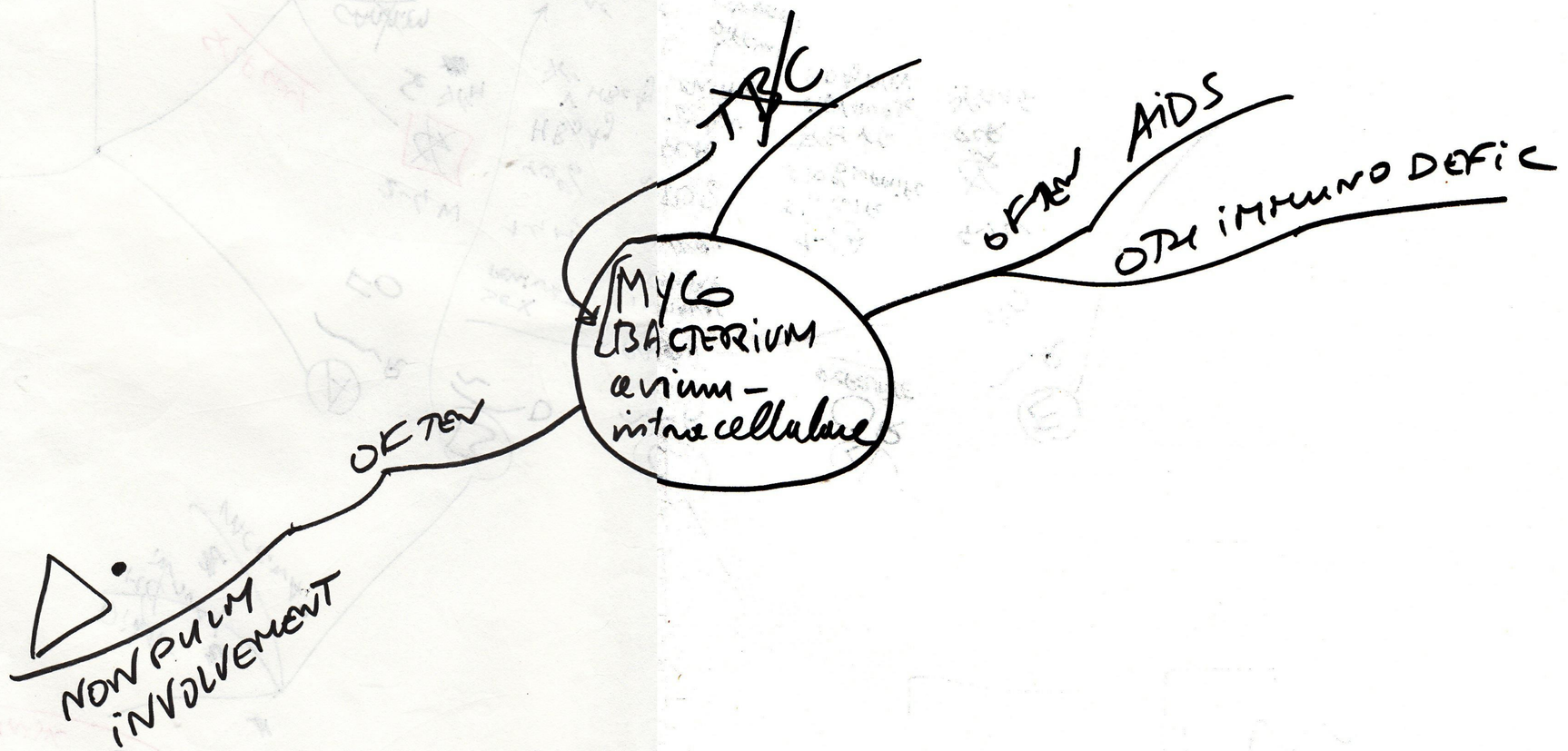
PRIMARY

- INITIAL IFC
- GHON COMPLEX
- ONLY IN
- GRANUL IFM
- TUBERCLE
- CASEOUS NECROSIS
- OFTEN
- CALCIFIED
- OFTEN
- LANGHANS GIANT
- AST
- OFTEN
- VISIBLE
- USUALLY
- RADIOG
- PROGRESS
- NI EVIDENT

SECONDARY

- ACTIVATION
- SPREAD
- NEW
- PULM
- EXTRAPULM
- SITE
- CAVITATION
- CASEATION
- CANAL IMMUNITY
- PLEUR EFFUS
- HEMOPTYSIS
- OFTEN BLOODY
- PROG DISABILITY
- FEVER
- SCARRING / CALCIFICA°
- INTO BRONCHI
- CAS MAY LIQUEFY & BE EXPELLED
- CAVITARY LES
- LES CONSOLID + TUBERCLE FORMA°
- CALCIFIED
- HILAR LN
- GM
- LOC ED LES
- USUALLY APICAL
- POSTERIOR SEGM UPPER LOB
- PATHO FINDINGS
- SPREAD
- LYMPHAT
- HEMAT
- LANGH GIANT CELLS

18.6.4


TBC
OTHER AIDS
OTH IMMUNO DEFIC
MYCOBACTERIUM avium-intracellulare
OTHER
NON PULM INVOLVEMENT

NL

SCM

- ACTINOMYCOSIS
- NOCARDIOSIS

→ WEAKLY ACID-FAST

- GRAM ANAER FILAMENTOUS
- ABSA SIN MACT FORMAD
- ED UDATE = GRAM SULFUR GRANULES YELLOW LUMPS ON GRAINY
- OPP
- → B+ MENINGES diss HAM

- CANDIDIASIS — albicans
- CRYPTOCOCCOSIS — neoformans
- ASPERGILLOSIS
- HISTOPLASMOSIS — capsulatum

- IMM COMP, INVASIVE FORM → B & SOME DISS
- ODG ABS VELVET ENDOCARD.)
- INVG USUALLY
- MENINGITIS
- ENCAPSULATED INDIA INK
- INVAS FORM → VESSELS → HEMAT DIS
- ≃ TBC I & II FORMS
- MULTIPLE BUDDING + LATE CALCIFICAD
- DISS ∞ FORM "MULTISYSTEM"
- MΦ — FUNGAL YEAST FORMS
- INFECTED MΦ

FUNGI
FUNGUS-LIKE BACTERIA

USUALLY
- INHALED
- INOCULAD
- SKIN

MOST INSTANCES
- IFM ≃ TBC

COCCIDIOIDOMYCOSIS immitis — I & D IS ∞ FORMS
FUNGAL SPHERULE
→ ENDOSPORES
IN GRANULOMAS

BRONCHIAL OBSTRUC°
EXTERNAL COMPRE° L PARENC
TUMORS *
PLEURAL ACCUMULA° FLUID *
= ALV COLLAPSE
ACQUIRED
ATELECTASIS
NEONATORUM
FAILURE
ALV SPACES TO EXPAND AT BIRTH
MISC
PULM ALV PROTEINOSIS
BRONCHO ALV LAVAGE
TTT
SURFACTANT
ACCUMULAD AMORPHOUS PAS
+VE ALV SPACES
UNGMON
UNKNOWN ETIO
II
COLLAPSE OF PREVIOUSLY AERATED BRONCHI
FAILURE
INITIAL AERATED LUNGS
ALV REMAIN COLLAPSED
NEED NEW FULLY ESTABLISHED
IMMATURE
FETAL ANOXIA
PREMATURITY
SCH

NL

CANCERS

CARCINOID
- TYPICAL
- ATYPICAL
- NEURO ENDOC
- COMPONENTS BRONCHIAL EPIT
- ANISE
- 1-2%
- MORE AGGRESSIVE
- IMMUNOSED
- TUM NEC
- UNTOL ATYPIA
- CURRENT
- CLASSIFICA°
  - LARGE C
  - SMALL C
  - BALV
  - ADENO
  - SQUAMOUS C
- PART SPECTRUM NEURO ENDOC CA
- CUAS ALONG SIDE SMALL C CA

GEN
- MALIG
- MOST
- ICA "BRONCHOGENIC"
- AVOIDED
- IMMUNITY
- ONCOGEN
- FREQ
- METS > PRIMARY
- HIGHER INCIDENCE

MAY SPREAD BY DIRECT EXTENSION
- NOT
- INDOLENT
- SLOW GROWING
- MOST
- EXCELLENT + SYNG 5Y SURV 90%

MAJOR BRONCHI *

CUIN
- > VENA CAVA SD
- PAN GASTRUM
- HORMSERIES
- PANCREATOBRONC SD
- PLEUR EFF

OTH EPI F
- EGFP

NL

SCH

16.8.2

LUNG CARCINOMAS

CLAS°

SQUAMOUS ♂

PTH-LIKE

SMALL ♂

SIADH

ACTH-LIKE

ACTH

MOST FREQ

ACTIVITY

OAT CELL

PARANEOP ENDOC

SDS

OFTEN

BLOODY

SUGGESTS MALIGNANCY

THROMBA

TBC

PLEUR EFFUSION

RECURLARN PARAL ⇒ HOARSENESS

CLIN

♂ → ♀

EXPEC

INCIDENCE

11 CIGARETTE SMOKING

LOWERING CAUSE OF DEATH FROM CANCER

SMOKERS

SMALL ♂

SQUAMOUS ♂

MOST COM

85-90%

INCIDENCE ∝ # CIGARETTES DAILY

DIRECTLY

YEARS SMOKING

NEVER SMOKERS ADENO

MOST LIKELY

OTH ETIOLOGY

RADIUM

URANIUM

WORKERS

INC →

RADIO

AIR POLLU°

ASBESTOS

↑ INDUCING + SYNERGISTIC

INDUST

NICKEL

CHROMATES

GENET

EGFR

EPIDERMAL GROWTH FACTOR RECEPTOR

GENE

MUTA°

NEVER SMOKERS

OFTEN W

NON SMALL ♂

CHIEFLY ADENOCA

OTH

MALIGNANCY

COUGH

HEMOPTYSIS

OFTEN SPREADS BY LOC EXTENS°

PLEUR

PERIC

IV RIBS

BRONCHUS°

OFTEN +

ATELECTASIS

PNEUMONITIS

SVC SD

INVASION

COMPRESSION

ALONG WITH

CYANOSIS

FACIAL SWELLING

PANCOAST TVM

= SULCUS TVM

APEX LUNG INVOLVT

PTOSIS

MIOSIS

ANHIDROSIS

HORNER SD

+ OFTEN

INVOLVT

CERVICAL SYMPATHETIC PLEXUS

UPPER EXT

NEUR

HEAD

DIAPHORESIS

NL

SCH

16.8.24

C = CENTRAL
P = PERIPHERAL

CLASSIFO LUNG CARCINOMAS

SMALL C

- HIGH N/C RATIO
- SYNAPTOPHYSIN
- CHROMOGRANIN
- FREQ PERIHILAR C
- VALIDATED MET AT Δ *
- FORMERLY "OAT C"
  - UNDIF
  - MOST AGGRESSIVE B CELL
  - INC ↗ SMOKERS
- P
- NEUROENDOC FAT
- IMMUNO ⊕ VE
- ADH
- ACTH
- ECTOPIC P°

LARG C

- UNDIF
- POORLY DIF
- GLAND
- SQUAM
- Δ EXCLUSION
- MAY SHOW FEATURES SQUAM & OR ADENOCA ON EM
- NEXT CRITERIA FOR
- CONSIDERED AMENABLE TO SURGERY
- THERAP PURPOSES

NONSMALL

- SURG INTERV MAY BE CONSIDERED

SQUAMOUS C

- HILAR MASS
- ENERG CAVITATION
- MOST OFTEN CENTRALLY
- WELL → POORLY DIFFERENTIATED
- SMOKERS
- ALMOST EXCLUSIVELY
- MAYBE PREDOM BY SQUAM DYSPLASIA
- MAY BE MANIFD BY INAP PTH-LIKE ACTIVITY → HCG-Bd

ADENO

- P
- MC I LUNG CANCERS ♀
- SOME CAUSE SMOKING
- MC NEVER SMOKERS
- MAY BE PRED BY ATYPICAL ADENOMATOUS HYPERPLASIA
- MISPO VARIANTS
- ALVEOLAR
- PAPILLARY
- SOLID + MUCIN
- FORMAT
- BA
- MAY BE AMENABLE
- MUTO EGFR
- TO EGFR TYR KINASE INHIBITORS
- VARIANT
- DRPS ON SITE PRIOR IFM
- INJURY
- SCAR CA
- SMOK
- =ADENOCA
- GROW PURELY ALONG PREEXISTING ALV WALLS
- = HEPIDIC GROWTH *
- P
- NON MUCIN BALV
- MULTIFOCAL PNEUMONIA *
- XRAY MULTIPLE DENSITIES
- COLUMN-TO-CUBOIDAL TUM & LINING

Δ = DIAGNOSIS

NL

SCH