

Autopsy findings of a man who died fr AIDS

Def: AIDS - most serious stage illness related, HIV infect²

defⁿ presence HIV Ab
 - also serious illness such as
 ○ Kaposi's
 ○ Pneumonia

Hx: ^{eg: drug addict / prostitute}
 ? cause death: death cert
 Need special **Ⓜ-biology**
 MRD autopsies - in Fairfield → extensive samples taken - **Ⓜ-biology**

- 7/1/95
- Opp infect²
 - Tumour
 - Clinical
 - Ext
 - CNS
 - Ri
 - GIT
 - UGS
 - RES
 - Endo
 - MS
 - Musculosk
 - Organ's & solid served

ir stomach
 - contents
 / culture

Precautions: Against mucous mem contact
 Hepatitis C
 CJD
 glove against flat blade
 needle stick injury - **Blood sample** - fr fem A
 aerosol inhalat² (esp^c Hx MDR TB)

Considerations:
 Dist effects HIV per se < CNS
 CD4⁺ T_H
 Opp infect²
 HIV-as neoplasms

D ass^c lifestyle high-risk patients:

- homo-sexual
- IVDU - Hep B, C
- Prostitutes
- Africans & Hispanics
- Haemophiliac
- Effects:
 AZT → anaemia, nausea, headache
 chemok² - neoplasms → bald
 anti-microbial R_x

≡ CRF
 eg. Transplant
 - immu. supp
 ↑ SCC, lymphoma
 opp infect²

EXTERNAL

gen - W loss
 muscle wast^e
 Inject² sites → IVDU

Caries
Peri-odontal D

Skin - **Kaposi's sarcoma**: **Ⓜ** purple macula/patch/nodule

Early path stage
 - small hr pro
 - jagged
 RBC extravasated
 Some plasma



Tumour stage **Ⓜ**

? HHV 8 related (≡ CMV)
 pro-vasc channels lined w endo
 slender spiracle
 form slit-like var. prec.
 haemorrhage → Haemosiderin
 ✓ plasma
 B-hCG R_x (???)

also in max II, lung, liver, neoplasms, dental cavity

- Herpes
- HSV 1
- 2
- VZV
- EBV
- CMV
- HHV 6 → Roseola
- HHV 8 → ? Kaposi's

Other :

Molluscum contagiosum - multiple

Candidiasis - groin
axillae

Seborrheic dermatitis
Eosinophilic folliculitis
Alopecia
? pityrosporum

Bacillary angiomatosis (cat scratch D) ← skin LN

genital ulcerat² { recurrent HSV
Chancroid } ↑ easily transmissible

Folliculitis / furunculosis - Staph
HPV

INTERNAL CVS

IE - assoc^c IVIM esp S. aureus
Card
Aspergillus

Myocardial infect² - Toxoplasmosis

☆☆ CMP - idio congestive (in children)

RS

Opp infect² -

PCP - 85% AIDS cases

Myco TB, MAIC - granulomas may^u / a fatue

Cryptococcus → also gut & bone marrow (+ LN = spleen)

Aspergillus

Candida

Toxoplasmosis

NOCARDIA

CMV - 10%

HIV

HSV

Recurrent pneumococcal pneumonia I bacteraemia

↓ frequently - Kaposi's Lymphoma

Drugs → Diffuse alv damage
Fibrosing alveolitis

GIT - throughout

Candidiasis ← oral
 CMV ← eso, colon, lung, retinitis

mouth : **OHL** - lat margins ' tongue
 (HIV, HPV, EBV) → early presentation
 HSV ulcers

glandular GIT : **Cryptosporidiosis**
Micro ✓
Iso ✓
Salmonella
Shigella
Campylobacter
Amoeba

Kaposi's - SI
 NHL - high grade B cell
 (Burkitt's lymphoma)

Anal warts
 SCC

Liver - non-sp (asympt) hepatitis
 MAI
 CMV hepatitis
 KS
 Hep B
 C (esp in IDU)

GUS - Kidney

HIV effect : rapidly prog. FSGS
 I/S nephritis
 nephrocalcinosis

2° : mem GN for HBV
 endocarditis also GN

Bladder : trauma due catheterisation
 opp infect

Genital : Anogenital warts & ulcers
 Stigmata of AIDS
Cervical SCC (aggressive) - HPV 16

Endocrine - few changes
opp - CMV in Aden
TB

TIG

Haemopoietic & Lymphatic - Gen lymphadenopathy - initially follicular hyperplasia
↓
lysis
↓
involut²
(prog. build-up of HIV in lymphoid tissues)

NHL - brain, GIT, RS, liver, spleen, bone marrow

Hodgkin's

KS - in lymph sinuses → Castleman's D changes
- benign lymphoprolif.
Bacillary angiomatosis, MAI

Particulate matter in sinuses if IVDU
- refractile → talk

Spleen - NHL
Hodgkin's

Bone Marrow - NHL
HD

Lymph Hyperplasia - polymorphous reactive

opp - MAI
Crypto.
Histoplasma

H-plasia rel. AZT

Myxoid stromal changes in atrophic states

CNS

- HIV effect
- ① Aseptic meningitis (usu at seroconversion, white, at 2m...)
 - ② Sub-acute ^(Granuloma) ~~encephalitis~~ - optic nodules + MNGC
 - ③ Vacuolar myelopathy - spongiform degeneration - WM
↳ Vacuolar Δ + ↑ lipid-laden lys in WM cord
 - ④ Stroke ← w/ stroke infarct

OPP

- Toxopl
- Cere
- PML
- CMV, HSV, VZV
- Crypto

CNS lymphoma

Eyes

- Retinitis - CMV (most favoured site)
Card (ZVDU)
- Keratoconjunctivitis - HSV
HVZ

PNS

- ① Acute necrotic radiculomyelitis = SCD
 - ② Vasculopathy
 - ③ Neuropathy
- Acute & chronic inflamm demyelination (usu. in seroconversion)
 - Mononeuritis multiplex (usu in ARC stage)
 - DPSN - axonal degeneration
 - Autonomic dysfunction

Musc

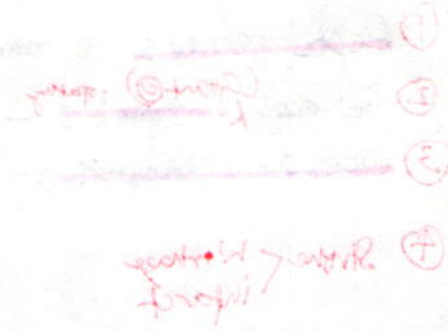
- Myopathy - denervation
- Myositis → Type 2b atrophy / Nucleolar (red body) / Necrotic-vascular / AZT-toxic
- Myocarditis
- Inflamm myopathy
- mito atrophy
(e' mito not polymeric)
- vas-degen

Cause of death

- ① PCP
- ② Resp infections - Pneumococcus
S. aureus
- ③ Septicaemia
- ④ Intracranial lesion ← Toxoplasmosis
Lymphoma

Causes' death in cancer

Branchopneus - Staph
H. inf
mixed

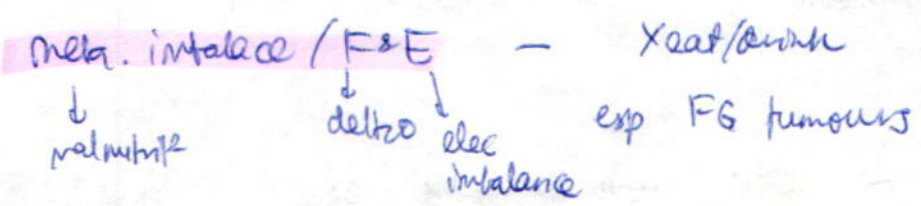


PE

Resp anast - morphine O/P
± HG²⁺ analgesia

Septicaemia

Intracranial mets



DIC / solid cancer @
Acute PML (M3)

MI - ? HCoag

Bowel cancer - Clostr. septicum septicaemia