

Barcelona, May 5th and 6th 2011



Clinical Cases

4th Simposium International on HIV Psiquiatria, Barcelona, 5.-6th of May 2011

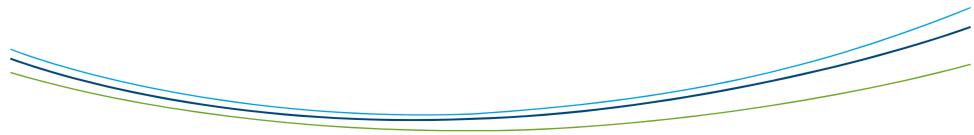
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4th Simposium International on HIV Psiquiatria,



Case 1



64y old patient: Hans

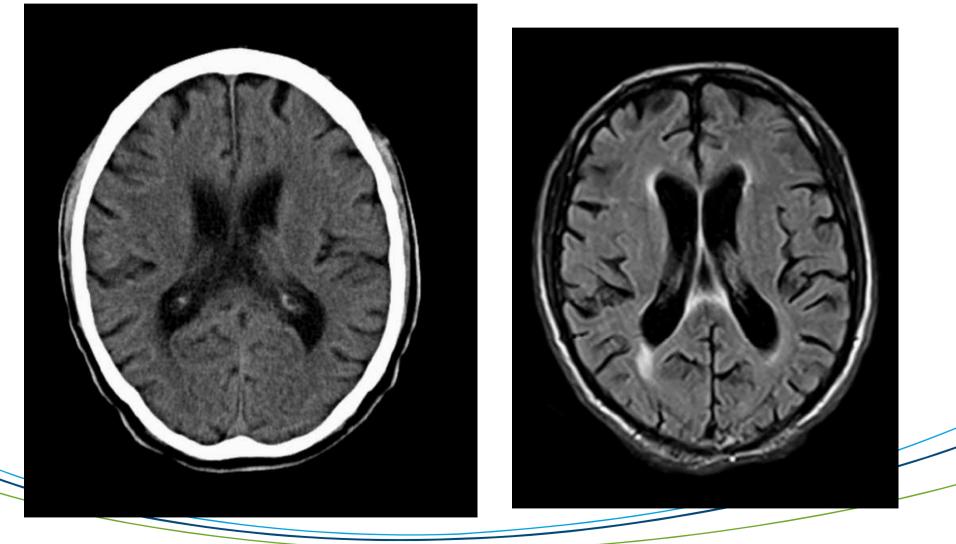


- In April 2008 Patient is found in the train by the train conductor who found the patient to be severely disoriented
- Train conductor calls the ambulance and the patient is admitted to a local hospital
- General exam: patient in reduced general condition but normal state of nutrition; body weight 65kg, height 170cm, temp. 37.0℃, physical exam normal
- Neurological exam upon admission: no abnormalities
- Psychiatric exam: disoriented to time, place and person. Affect and drive are disturbed. Critical faculities reduced. Concentration and readiness reduced.
- EEG: 8/sec. Alpha EEG in low voltage level; no focal signs, no signs of epileptiform activity
- Cerebrospinal fluid results: cell count 2/3, glucose 46mg/dl (normal range 40-75), CSF protein 46mg/dl

Imaging



MRI



4th Simposium International on HIV Psiquiatria,

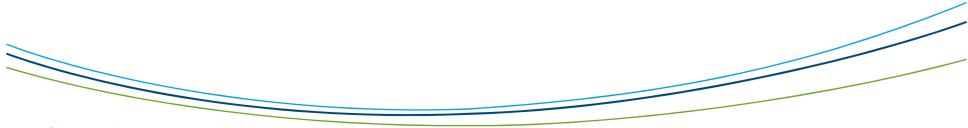
СТ





»What would be your further work-up?

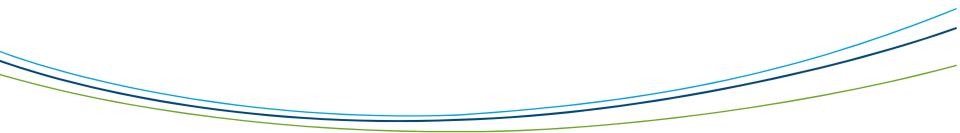
»Which additional diagnostic tests do you recommend ?





Further results

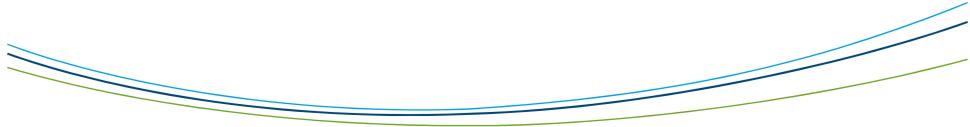
»HIV-1-ELISA and Westernblot positive
»HIV-RNA: 6.800.000 copies/ml
»CD4-count: 25/µl (4%)
»TPHA in serum 1:80
»FTA-Abs-IgG-Test: positive
»19-S-IgM-FTA-Test: borderline
»VDRL: negative







»What to do next ?
»What is your diagnosis?
»Which treatment do you recommend?



Diagnostic classification of HIVassociated neurocognitive disorders (HAND)



HIV-associated asymptomatic neurocognitive impairment (ANI)	 Impairment in ≥2 neurocognitive domains (attention; executive memory; speed of information processing, etc.) with ≥1 SD below the mean The cognitive impairment does not interfere with daily functioning
HIV-associated mild neurocognitive disorder (MND)	 Similar to ANI, but with mild–moderate interference w/daily functioning
HIV-1-associated dementia (HAD)	 Impairment in ≥ 2 neurocognitive domain with ≥2 SD below the mean Marked interference with daily functioning

Antinori A et al Neurology 2007;69:1789-99

Clinical course

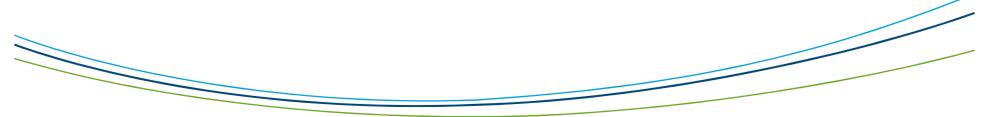


»Patient is treated with Ceftriaxon 2g daily i.v. under the suspicion of a Neurosyphillis

»Do you agree with this diagnosis and treatment?

»HIV treatment is started with Truvada 1-0-0 and Kaletra 2-0-2

»Do you agree with this treatment choice?



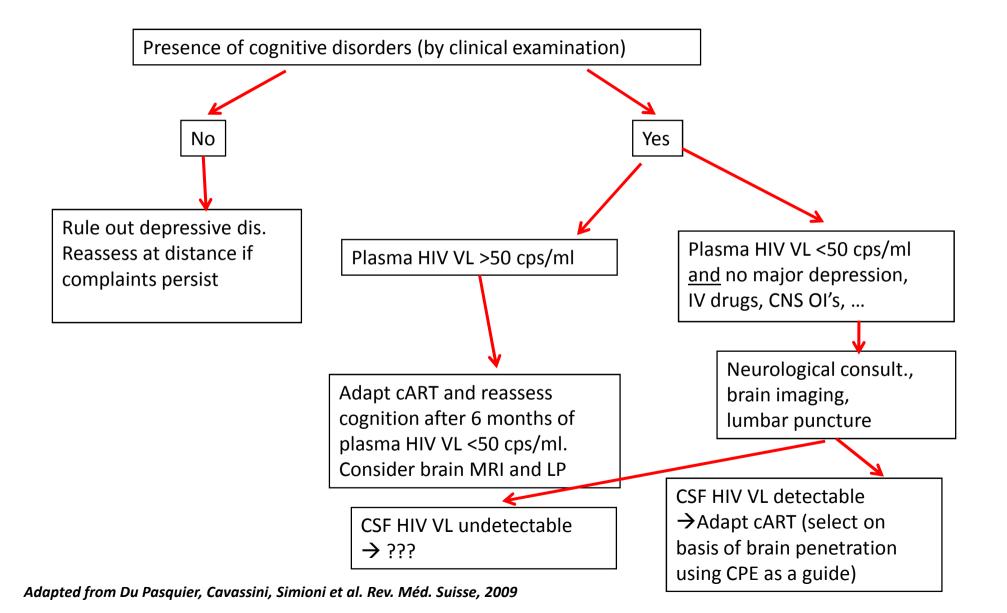




	4	3	2	1
NRTIs	Zidovudine	Abacavir	Didanosine	Tenofovir
		Emtricitabine	Lamivudine	Zalcitabine
			Stavudine	
NNRTIs	Nevirapine	Delavirdine	Etravirine	
		Efavirenz		
Pls	Indinavir-r	Darunavir-r	Atazanavir	Nelfinavir
		Fosamprenavir-r	Atazanavir-r	Ritonavir
		Indinavir	Fosamprenavir	Saquinavir
		Lopinavir-r		Saquinavir-r
				Tipranavir-r
Entry/Fusion		Maraviroc		Enfuvirtide
Inhibitors				
Integrase		Raltegravir		
Inhibitors				

Letendre S et al. CROI 2010, Poster 430

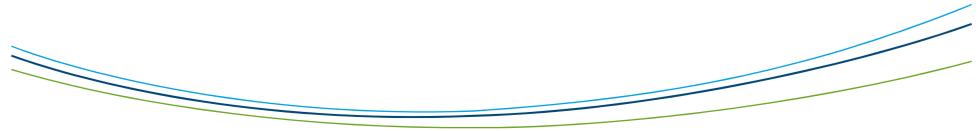
Proposed algorithm for HIV+ patient complaining of cognitive impairment



Clinical course

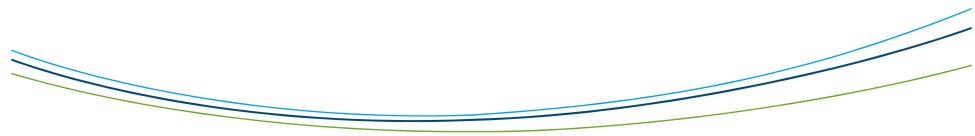


- »HIV-RNA 3 months after starting ART: 386 copies and then 2 months later persistingly < 40 copies/ml</p>
- »CD4-count: 3 mths after starting ART 16% 242/µl
- »Significant neurological and psychiatric improvement; patient works in old job again





Case 2



60y old patient: Klaus

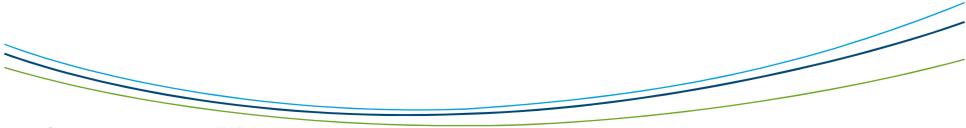


- In March 2011 patient develops a strong feeling of cold in the extremities, increasing dysesthesia especially in the finger tips and weakness in the legs
- Patient calls ambulance and is admitted to the Department of Neurology
- Patient has known HIV infection since 2010; patient is enrolled in the START study in the no ART arm, CD4-count in 12/2010 326/µl (30%), HIV-RNA 7652 copis/ml
- Neurological examination upon admission: Muscle reflexes of upper and lower extremities not present; Babinski negative, moderate paresis of the legs and arms, peresthesia all extremities
- Psychiatric and neuropsychological examination: no pathological findings
- CSF findings: no cells, glucose 77mg/dl + (normal range 40-75), protein 840,9 mg/l ++ (normal range -500mg/l)

60y old patient: Klaus



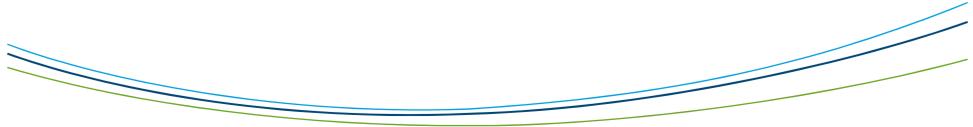
- CSF findings continued: albumino-cytological dissociation
- Brain imaging (CT scan) no pathological finding
- Clinical chemistry: ALT 118 U/I, AST 74 U/I, y-GT 652 U/I, CK 66 U/I, Creatinine 0,6 mg/dl, Hb 13,0 g/dl, platlets 139.000/µl, Leucocytes 3.65 G/I







»What to do next ?
»What is your diagnosis?
»What is your main diferential diagnosis?
»Which treatment do you recommend?



Clinical course



»Primary Diagnosis: Guillain-Barre Syndrom

»Diagnostic criteria:

Required:	 Progressive, relatively symetrical weakness of two or more limbs due to neuropathy 	
	★ Areflexia	
	★ Disorder course < 4 weeks	
	★ Exclusion of other causes	
Supportive:	 relatively symetric weakness accompanied by numbness or tingling 	
	★ mild sensory involvement	
	\star facial nerve or other cranial nerve involvement	
	★ absence of fever	
	★ typical CSF findings	
	★ electrophysiologic evidence of demyelination from EMG	



Differential diagnosis:

- » Acute myelopathies
- » Botulism
- » Diphteria
- » Lyme disease
- » Porphyria
- » Vasculitis neuropathy
- » Poliomyelitis
- » CMV polyradiculitis
- » Criticall illness neuropathy
- » Myasthenia gravis
- » Poisonings

»

» West nile virus disease





»Secondary diagnosis: Syphillis infection

Syphillis serology serum:

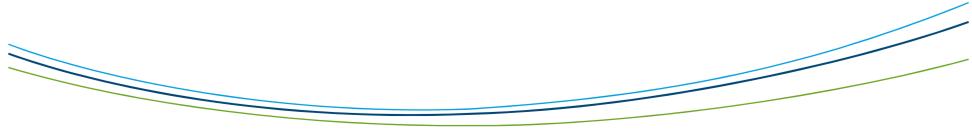
Cerebrospinal fluid:

TPPA: 1:327680 Titer IgG-Immunoblot: positive IgM-Immunoblot: positive VDRL: 1:256 Titer Serum-CSF Quotient: 0,5 TPPA: 1:1024 IgG-Immunoblot positive VDRL: negative

Clinical course



- »High-dose intravenous immuneglobulins 36g/d
- »After increasing paresis and development of problems with swallowing and speaking plasmaphersis was also initiated
- »10 days later dramatic clinical improvement and the patient can be transferred to a rehabilitation facility
- »Penicillin treatment
- »ART: Kaletra 2-0-2 + Kivexa 1-0-0

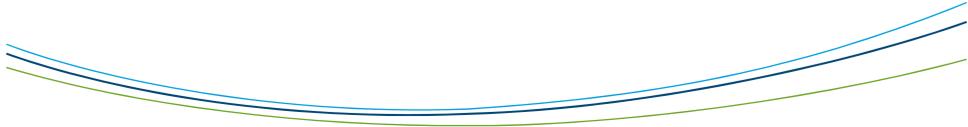






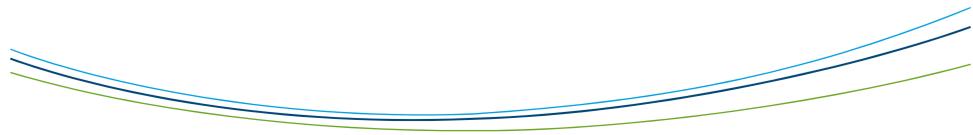
»Would you agree with the proposed treatment regimens?

»What would have been your preferred HIV ART?





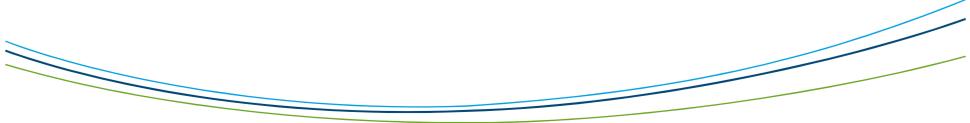
Case 3







- Patient is a hemophiliac with known HIV infection since 1984; chronic HCV coinfection
- Patient is homosexual and has legal issues with his mother;
- HIV therapy since 2005 with Tenofovir, 3TC and efavirenz
- HIV-RNA <50 copies/ml
- CD4-count 566 cells/µl
- 2007 suicide atttempt; patient is under psychotherapy
- 2008 Fibroscan reveals F3 fibrosis with 12.4 kilopascal







»Would you treat HCV ?

»Can we keep the efavirenz treatment?

- »Is the previous suicide attempt a contraindication for interferon therapy?
- »Should we give antidepressants prior to HCV therapy?

