

An atypical case of Neurosyphilis – the Great Pretender is back

Dr Prerana Huddar, CMT2

Dr Ambreen Butt, Consultant Sexual Health and HIV

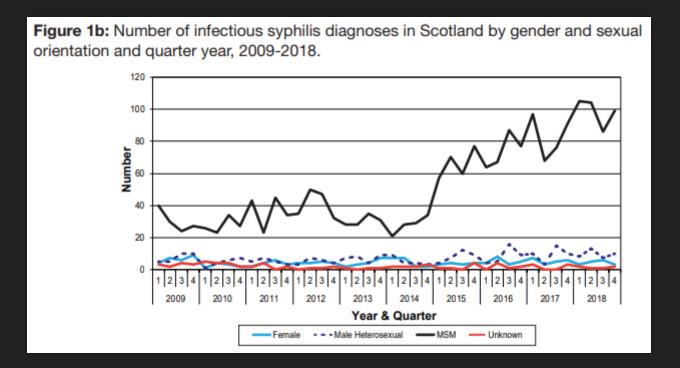
Dr John Reid, Consultant Neurologist and Stroke Physician





Why is this important?







"Please review this gentleman who has had pain and numbness in the right lower limb..."



- O31 year old man
- Gradual onset of symptoms over one year
- Right lower limb pain and numbness
- Sphincter involvement
- Cognitive difficulties





Social and sexual history

- Lithuanian, moved to Scotland 9 years ago
- One monogamous sexual relationship in the past 11 years
- O No intravenous/recreational drug misuse
- No sexual contact with men
- Works as fish filleter
- Color Left school age 18
- O No family history of syphilis/neurological disorders





Examination

- Cardio/resp/abdo: unremarkable
- O No rashes/skin lesions/chancre
- O Neuro:
 - OThinning of right quadriceps
 - OTone NORMAL, Power NORMAL
 - OReduced left knee jerk, absent right knee jerk, absent bilat ankle jerks, absent distal vibration sense





Investigations

- Serology
- O CSF
- OMRI head (during treatment and six months later)
- OMRI spine
- ONerve conduction studies (post-treatment)
- HIV NEGATIVE

- Cognitive testing
- OECHO, ECG
- **OCXR**



Date	Syphilis antibody EIA	T pallidum particle agg TPPA	Treponema pallidum IgM EIA TP	RPR
7/9/18 (clinic)	POSITIVE	POSITIVE	Negative	1:4
21/9/18 (admission)	POSITIVE	Not tested	Negative	1:8
31/10/18 (post- treatment)	POSITIVE	POSITIVE	Negative	1:4
17/6/19 (follow-up)	POSITIVE	POSITIVE	Negative	1:2

CSF criteria

Table	2.	The CSF	criteria	support	ting a	diagnosis	of	neuro-
syphilis	(58	3, 136).						

CSF parameters	In HIV-negative individuals	In HIV-positive individuals
WBC	> 5 μL	>20 µL OR 6-20 µL (on ART/plasma HIV VL undetectable, or blood CD4 < 200)
Protein RPR/VDRL TPPA	>0.45 g/l + >1:320	>0.45 g/l + >1:320

CSF

Date	Cell count per µl	Protein mg/ml	Glucose (CSF/plasma)	Oligoclonal bands	Cytology
2/10/18	88 WBC 11680 RBC	1.15 👉	3 / 4.4	Some paired and unpaired (inflammatory pattern)	More lymphocytes than expected, nil malignant
17/10/18	2 WBC (N) 788 RBC	0.45 (N)	3.3 / 5.3	Some paired and unpaired (inflammatory pattern)	

MRI spine





Treatment

- OBenzyl Penicillin 2.4g IV 4 hourly for 2 weeks, prednisolone 60mg OD for 3 days
- OCatheterisation
- OPhysiotherapy



MRI head before and after



Right amygdala lesion





After treatment

- OImprovement in cognitive symptoms
- OImprovement in cauda equina symptoms
- Successfully decatheterised
- OBack to work



What happens next?

- OAnnual neurology follow-up
- Repeat lumbar puncture and consider further treatment with doxycycline
- OFollow-up with neuropsychologist in Sept 2019





Learning points

- OTest for syphilis in cases with abnormal neurological presentations
- ONeurosyphilitic symptoms may not fully improve
- OWe still don't understand everything about syphilis!





Questions?



Pickup lines are very different in the medical community.



References

- [1] Health Protection Scotland, Surveillance report, Syphilis in Scotland 2018: update. 2018.
 Available from: https://www.hps.scot.nhs.uk/web-resources-container/syphilis-in-scotland-2018-update
- [2] M Kingston, P French, S Higgins, O McQuillan, A Sukthankar, C Stott, B McBrien, C Tipple, A Turner, AK Sullivan, Members of the Syphilis guidelines revision group 2015, K Radcliffe, D Cousins, M FitzGerald, M Fisher, D Grover, S Higgins, M Kingston, M Rayment, A Sullivan. UK national guidelines on the management of syphilis 2015. International Journal of STD & AIDS 2015; O(0) 1–26. Available from: doi:10.1177/0956462415624059
- [3] Saturday Morning Breakfast Cereal, 2010-12-25, 2010. Available from: https://www.smbc-comics.com/comic/2010-12-25

