

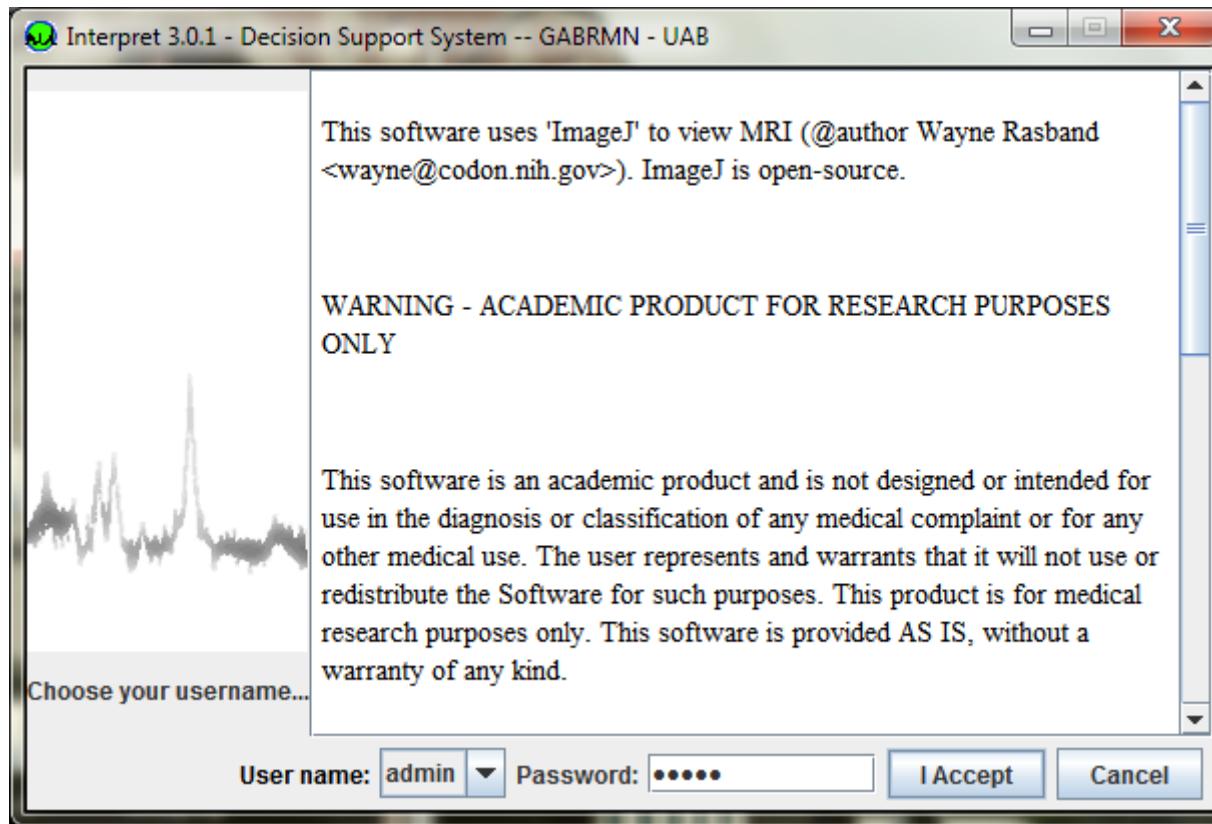
How to evaluate a case with the INTERPRET DSS 3.0

and SV MRS data from human brain
tumours at 1.5 T

- A radiologist comes to us with the spectrum of an abnormal brain mass.
- The clinical presentation and the MRI shows reasonable suspicion that the abnormal mass can be either a low-grade glial tumor or a pseudotumoral mass (infarct, multiple sclerosis, abscess, etc).

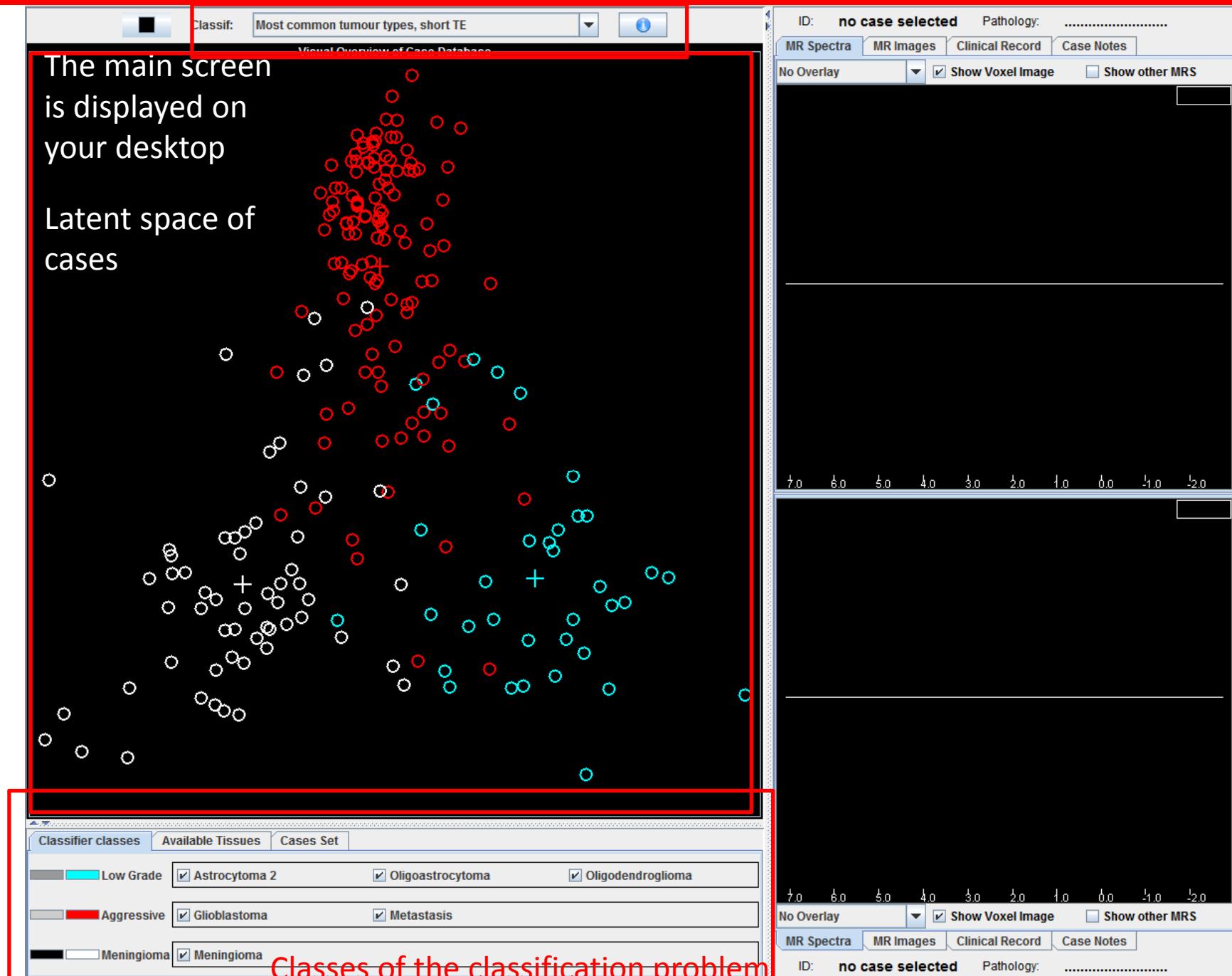
How do you evaluate the spectra of
the case with the INTERPRET DSS?

Double-click the DSS 3.0.2 icon on your desktop



Enter the password and click accept

Menu where the classification problem is shown, here the “most common tumour types” with short TE spectra option selected



Interpret 3.0.1 - Decision Support System -- GABRMN - UAB - Logged as: admin

User Cases Demo Cases Users ?

Load New Case  Last common tumour types, short TE

Save Loaded Cases

Edit Saved Cases

Visual Overview of Case Database

ID: no case selected Pathology:

MR Spectra MR Images Clinical Record Case Notes

No Overlay Show Voxel Image Show other MRS

Load case to analize...

Case designation: test case

Origin

Raw (time) Processed (freq)

Short Echo Time Long Echo Time

Spectrum Files

DMS JMRUI

Short Echo Time

Spectrum file path: SS2\xvaluacioDSS2\1005C_aligned.art

Long Echo Time

Spectrum file path: SS2\xvaluacioDSS2\1005L_aligned.art

Add my own case Cancel

Classifier classes Available Tissues Cases Set

Low Grade Astrocytoma 2 Oligoastrocytoma Oligodendrogloma

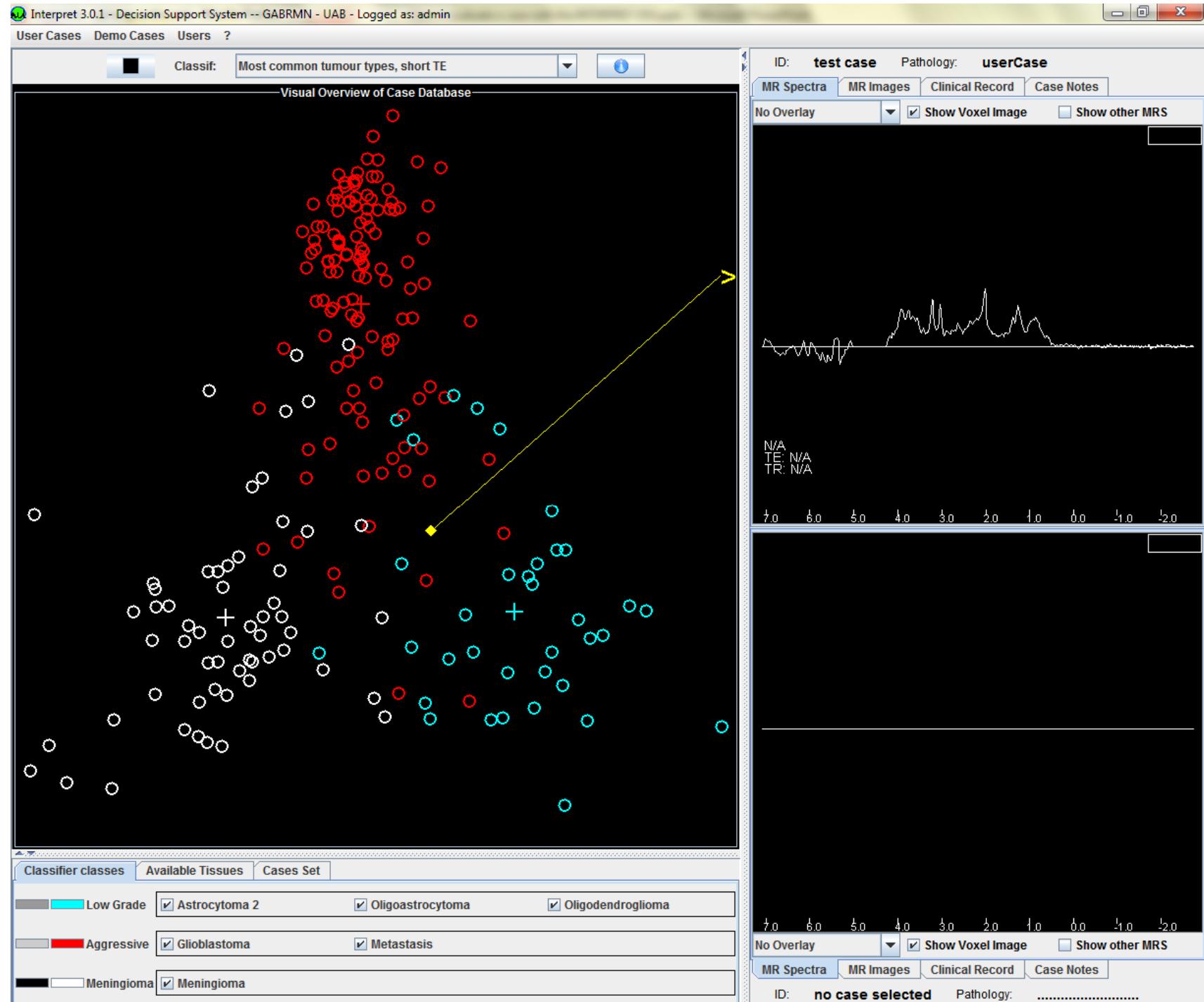
Aggressive Glioblastoma Metastasis

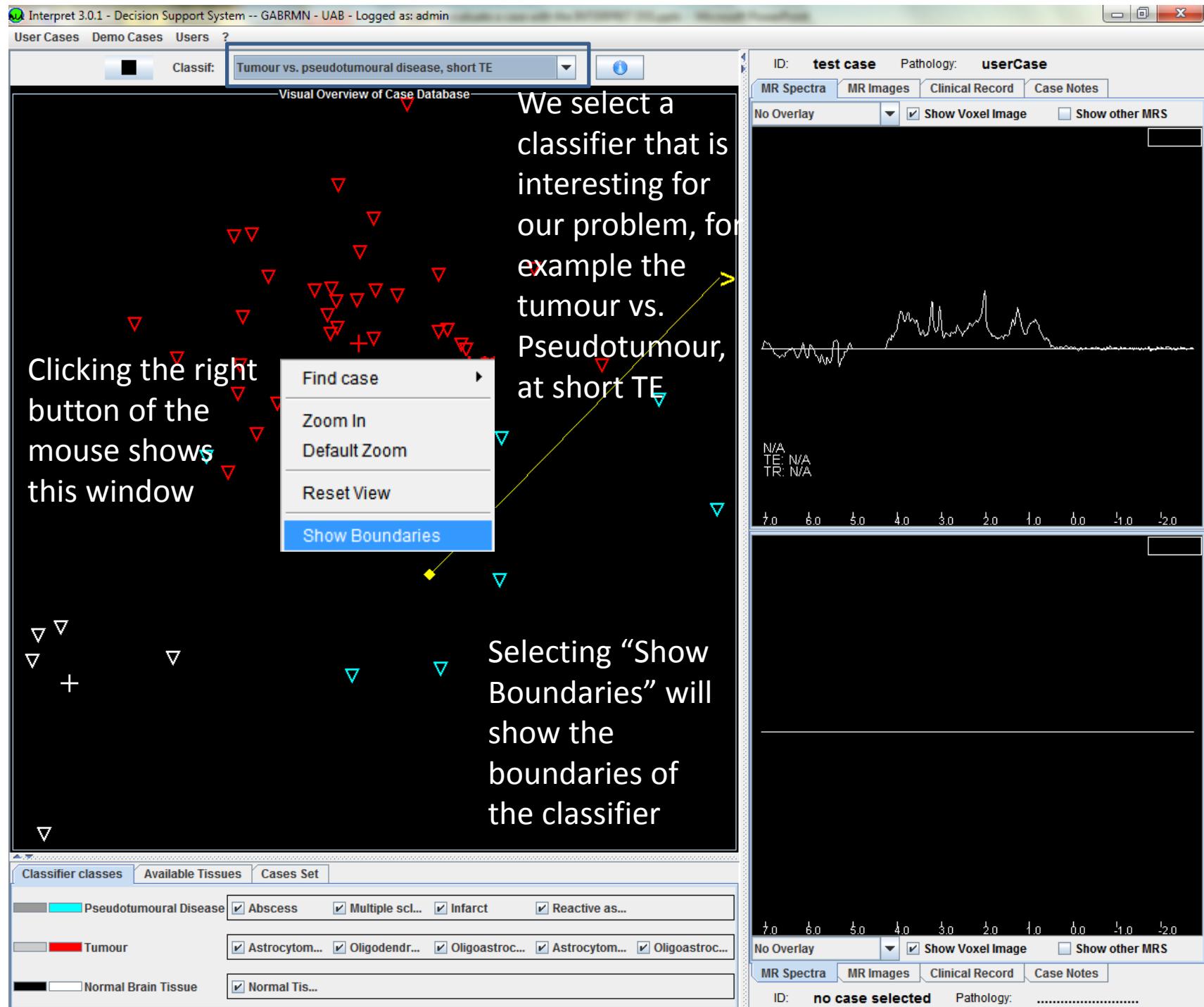
Meningioma Meningioma

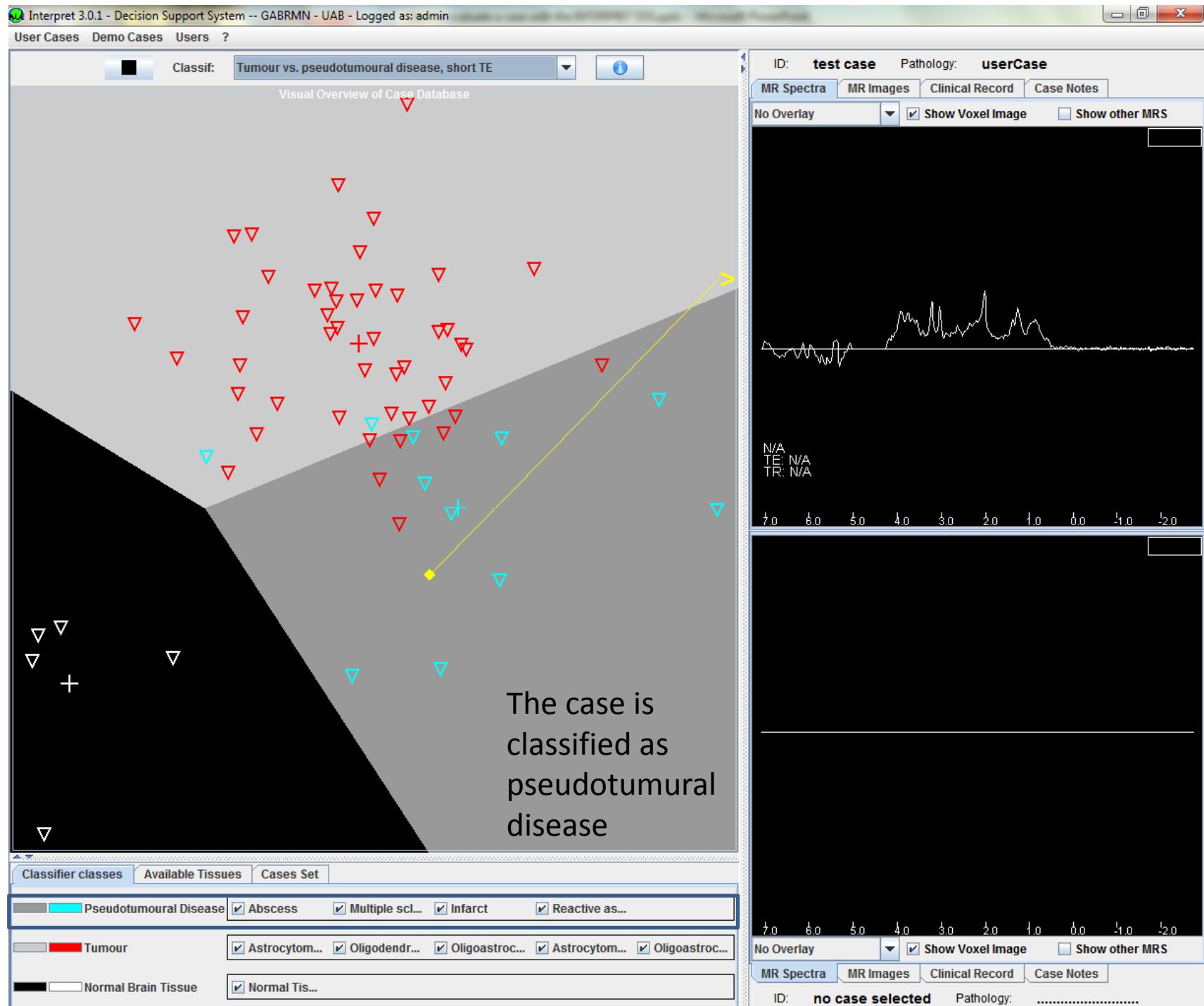
No Overlay Show Voxel Image Show other MRS

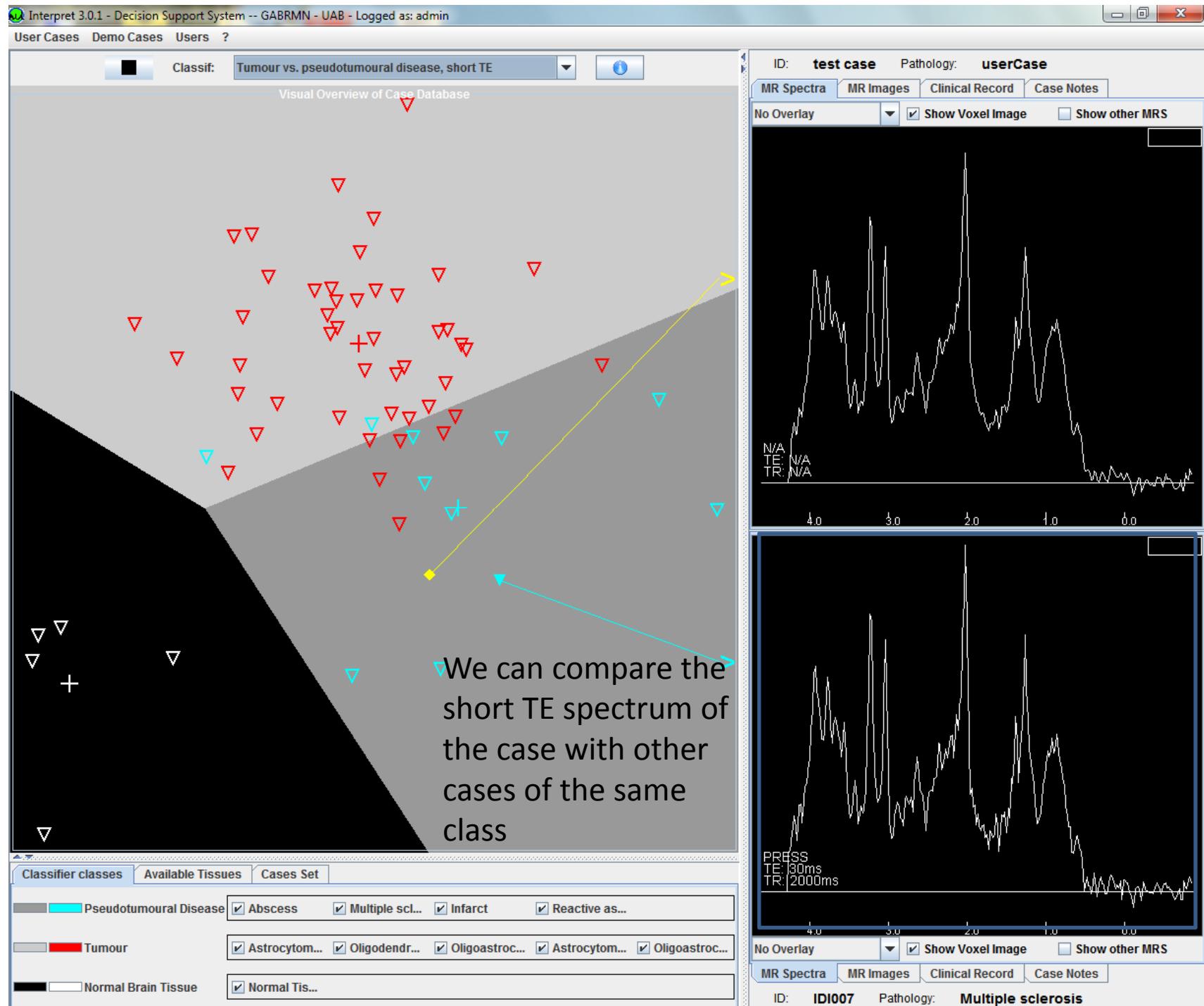
MR Spectra MR Images Clinical Record Case Notes

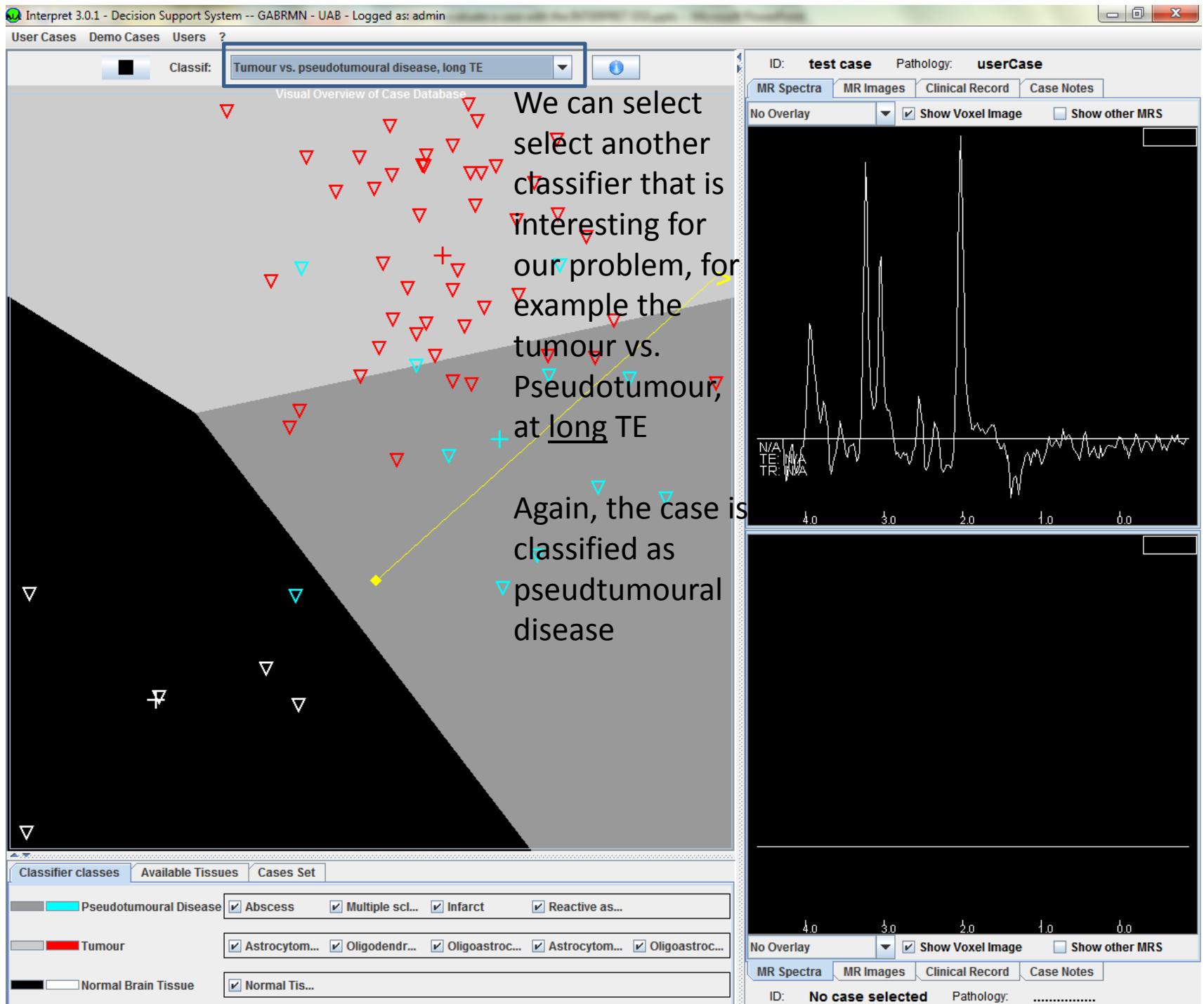
ID: no case selected Pathology:

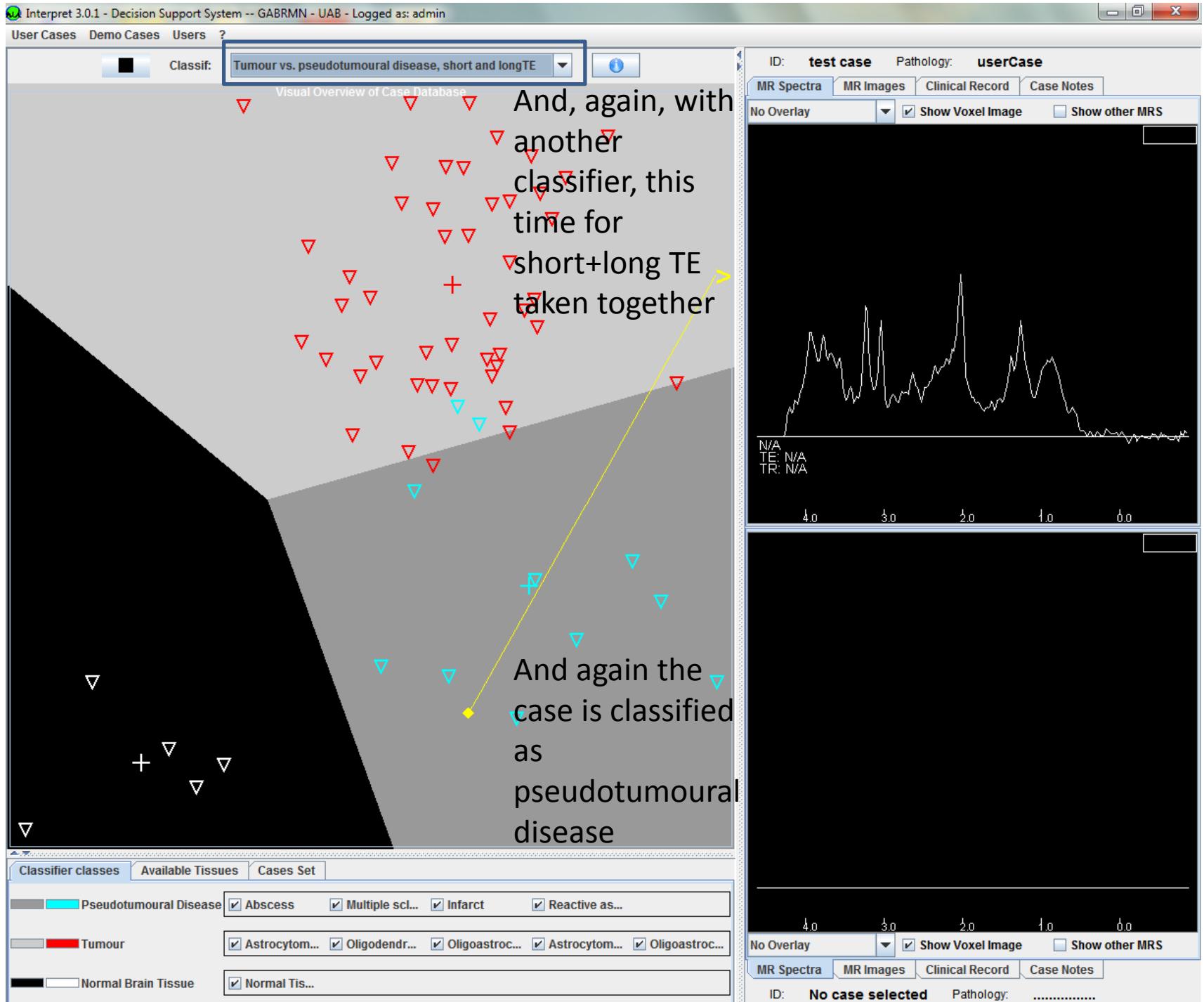


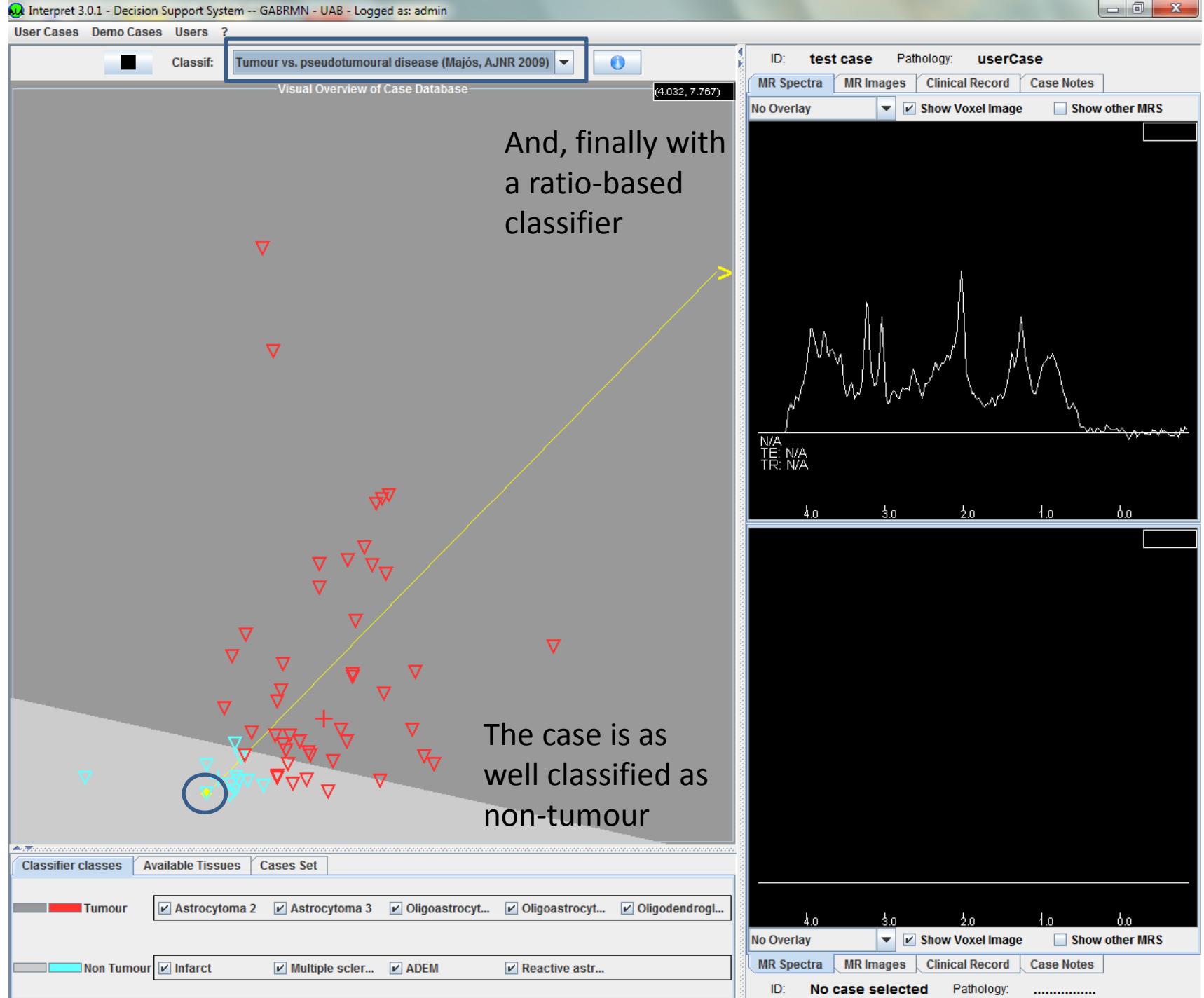












- All classifiers available assign our problem case to the pseudotumoural class, and we can reasonably suspect that, according to the MRS, this case is NOT a tumour but a pseudotumoural disease.

- The patient had, in fact, a multiple sclerosis plaque that mimicked a tumour.