### THE USE OF VISUAL RATING SCALES IN THE DISCRIMINATION BETWEEN **ALZHEIMER'S DISEASE AND DEPRESSION**

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### INTRODUCTION & AIM

ALZHEIMER'S DISEASE DEPRESSION ADMCI **PRECLINICAL** 

### **CAN WE SEPARATE THEM???**

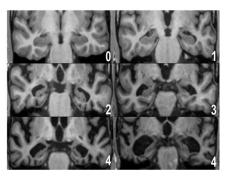
Atrophy of medial temporal lobes on MRI in "probable" Alzheimer's disease and normal ageing: diagnostic value and neuropsychological

**DEPRESSIVE** 

**EPISODE** 

MRI visual rating scales in the diagnosis of dementia: evaluation in 184 post-mortem confirmed cases

regions: comparison with volumetrics and with voxel-based



**ASSESS THE ROLE OF VISUAL SCALES IN THE DDX AD/DEP** 

# **METHOD**

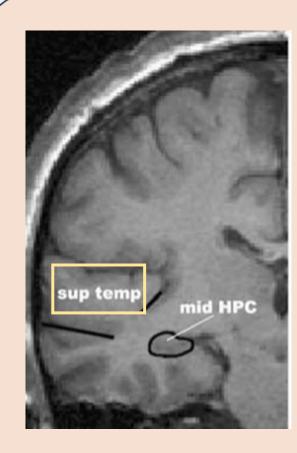
- **RETROSPECTIVE STUDY**
- 113 AD+DEP, 139 DEP
- 3 YEARS FOLLOWING UP
- GDS>10,MMSE>23
- 13 ROIs (Frontal, temporal, Hippo)
- 2 RATERS (DS,PT)→VISUAL SCALE
- ATROPHY  $(0\rightarrow 4)$
- **Binary Logistic Regression Model**

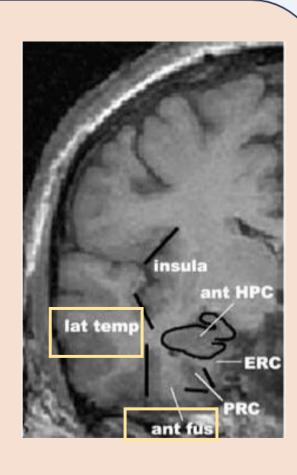
# **RESULTS & DISCUSSION**

- Significantly more severe atrophy for AD
- HIPPO BILATERALLY
- **ANTFUS R**
- LATTEMP R, SUPTEMP R
- FRONTAL AREAS WERE NOT INCLUDED

**Table 3**. Results from multiple logistic regression analysis for the discrimination of AD from DPR +Odds Ratio (95% Confidence Interval)

0.41 (0.13 – 1.27)	0.121
1.21 (1.10 – 1.32)	<0.001
1.37 (1.15 – 1.62)	<0.001
0.75 (0.68 – 0.82)	<0.001
0.53 (0.27 – 1.03)	0.060
2.25 (1.01 – 4.98)	0.046
2.67 (1.07 – 6.67)	0.035
2.69 (1.21 – 5.91)	0.016
3.41 (1.50 – 7.73)	0.003
2.66 (1.01 – 6.98)	0.047
	1.21 (1.10 – 1.32) 1.37 (1.15 – 1.62) 0.75 (0.68 – 0.82) 0.53 (0.27 – 1.03) 2.25 (1.01 – 4.98) 2.67 (1.07 – 6.67) 2.69 (1.21 – 5.91) 3.41 (1.50 – 7.73)





# **CONCLUSION**

Visual rating scales offer a useful method to distinguish between AD and depression in clinical practice.

## **AUTHORS-FUTURE WORK**

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**ATHENS GREECE** 

**VISUAL RATING SCALES IN THE LATE LIFE DEPRESSION**