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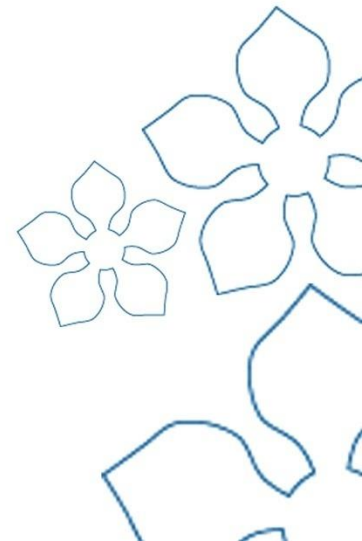
Brain, Behaviour, and Cognition

Resit Essay Guidance

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Method Essay

- A **draft** Turnitin submission portal is available on Moodle: you must use this to check the similarity rating of your work:
 - Tip: Do not just look at the overall %, instead you should also look at the breakdown of similarity. Give yourself time to make any changes!!
- Make sure you then upload the correct document to the final Turnitin portal.



Method Essay

- This is a **method** essay: your work should be based **solely** on discussing the **methods** used to explore the range of perceptual deficits shown by visual neglect patients.
 - It is **NOT** a “write generally about perceptual deficits and visual neglect”.
 - You can refer to the type of perceptual deficit investigated by a particular method but the argument must **focus** on the suitability of that method in assessing the perceptual deficit in question.
 - Students who do not engage with the methods literature and subsequently do not critically discuss the relevant methods will not do well on this essay.
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Method Essay

- To help you get started, there is a section in your core textbook for this module by Eysenck and Keane on “Disorders of Visual Attention” Chapter 5 (Page 171 in the 2015 edition), which discusses Visual neglect :-
- Visual neglect: “a condition where there is a lack of awareness of stimuli presented to the side of space on the opposite side to the brain damage (the contraleisonal side)”.
 - Usually involves right hemisphere damage in the brain.
 - This leads to the inability of the patient being able to:
 - detect the left side of objects (known as object-centred or allocentric neglect)
 - and/or detect all objects presented in the left visual field (known as subject-centred or egocentric neglect).
- Visual neglect is sometimes called: hemispatial neglect, spatial neglect, unilateral neglect, and many more – so keep this in mind when doing your literature search!!!!

Method Essay

Video of a Visual neglect patient

<https://www.youtube.com/watch?v=ymKvS0XsM4w>



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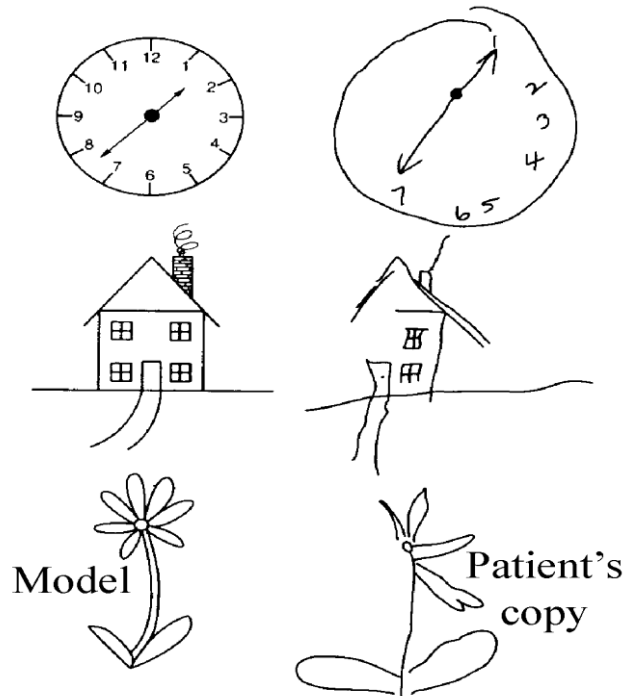
Method Essay

- The brain areas involved vary considerably across patients (known as a heterogeneous condition).
 - Suggests problem is due to brain networks rather than brain areas (Corbetta & Shulman, 2011; Bartolomeo et al., 2012).
- Your task before starting to write the essay is to find empirical research studies that have examined visual neglect patients and then see how they assessed them.
- You can then use this information to build-up your essay.
- Importantly you need to discuss the appropriateness of the method and what type of visual neglect it aims to assess.
 - E.g., difference between visual field and object neglect.

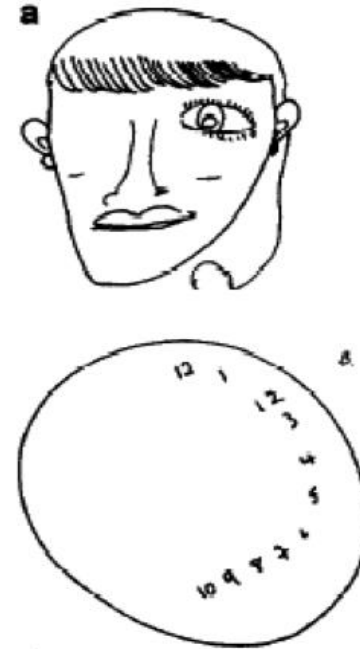
Method Essay

- Some methods for assessing Visual neglect include:

Copy drawing tasks



Spontaneous drawing

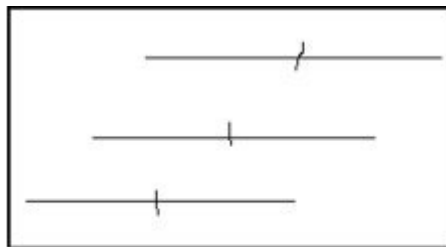


- What different aspects of visual neglect do these methods address?
- What are the advantages/disadvantages of these methods?
- Are they the most appropriate methods for examining the aspect of visual neglect they wish to examine?

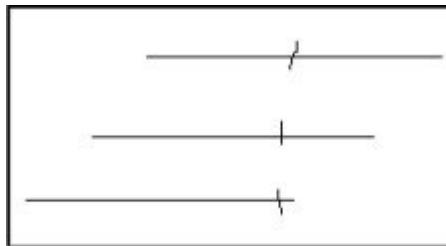
Method Essay

- Some methods for assessing Visual neglect include:

Line bisection test

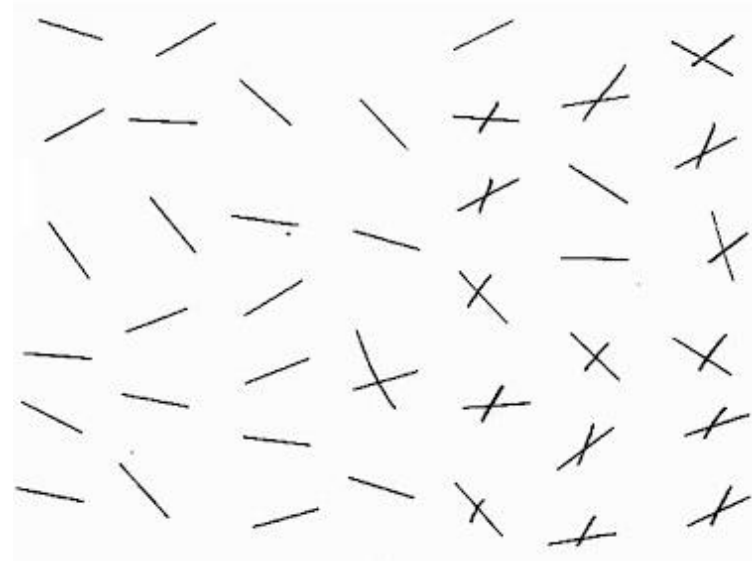


A. Normal line bisection



B. Highly impaired line bisection

Line cancellation tasks

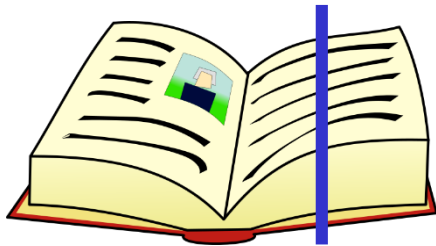


- What different aspects of visual neglect do these methods address?
- What are the advantages/disadvantages of these methods?
- Are they the most appropriate methods for examining the aspect of visual neglect they wish to examine?

Method Essay

- Some methods for assessing Visual neglect include:

Reading tasks



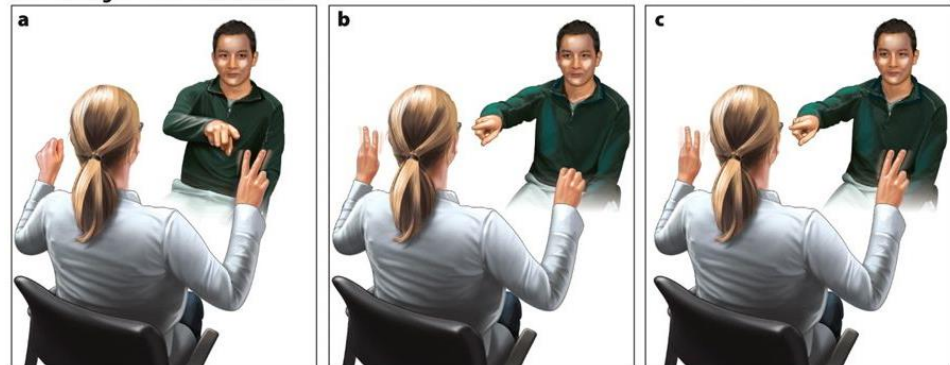
Book reading:
tends to start in
the middle of
the page

Walnut

Walnut

Word reading:
tends to only
read $\frac{1}{2}$ the
word.

Visual Movement Tasks



- What different aspects of visual neglect do these methods address?
- What are the advantages/disadvantages of these methods?
- Are they the most appropriate methods for examining the aspect of visual neglect they wish to examine?

Method Essay

- Collectively, the above are known as behavioural, pen & paper, neuropsychological, or sometimes bedside tasks.
- Other methods for assessing Visual neglect include:
 - Brain imaging studies
 - ERP studies
 - Eye-tracking studies
- It is up to you to decide which/how many methods you discuss.
- **However**, keep in mind the limited word count for the essay:
 - It would be far better to only discuss two methods but go in to greater detail about them and provide a thorough evaluation of them as oppose to simply listing/describing lots of methods without providing a discussion of them with support from empirical evidence.
 - **Remember the question is asking you to Critically discuss** (it is NOT asking you to list all the methods you know).

Method Essay

- Your assignment must be well written, professionally presented and have excellent referencing throughout. All referencing must be in APA style.
- You must read the assignment Proforma on Moodle for further details regarding this assignment and ensure you adhere to the information provided in the proforma when writing your essay.
- You **MUST** only gather evidence from appropriate sources:
 - i.e., peer-reviewed journal articles and/or textbooks
 - **DO NOT** use random internet sites/Wikipedia, etc.
 - **You will be penalised marks!!!! ---- Heavily!!!!**

Method Essay

Suggested Journal articles to get you started:

- Corbetta, M., & Shulman, G. L. (2011). Spatial neglect and attention networks. *Annual review of neuroscience*, 34, 569.
- Gallagher, M., Wilkinson, D., & Sakel, M. (2013). Hemispatial neglect: clinical features, assessment and treatment. *British Journal of Neuroscience Nursing*, 9(6), 273-277.
- Marsh, N. V., & Kersel, D. A. (1993). Screening tests for visual neglect following stroke. *Neuropsychological Rehabilitation*, 3(3), 245-257.
- Stone, S. P., Patel, P., Greenwood, R. J., & Halligan, P. W. (1992). Measuring visual neglect in acute stroke and predicting its recovery: the visual neglect recovery index. *Journal of Neurology, Neurosurgery & Psychiatry*, 55(6), 431-436.
- Stone, S. P., Wilson, B., Wroot, A., Halligan, P. W., Lange, L. S., Marshall, J. C., & Greenwood, R. J. (1991). The assessment of visuo-spatial neglect after acute stroke. *Journal of Neurology, Neurosurgery & Psychiatry*, 54(4), 345-350.



Method Essay

- In your essay you will be required to describe the procedure involved in the various methods.
 - Provide evidence from empirical research that has used these methods to examine visual neglect patients.
 - Discuss the strengths and limitations of the methods and their suitability for assessing the particular aspects they aim to examine in visual neglect patients.
 - The **word count** for this essay is very **limited** so do **NOT** go off on a tangent and start generally discussing visual neglect.
 - Do **NOT** waste word count at the beginning of the essay with a long and drawn out introduction – just set-up the purpose of the essay, briefly explain/describe visual neglect, then get straight into discussing the methods.
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