

Line Bisection In Simulated Homonymous Hemianopia

[#line bisection](#) [#homonymous hemianopia](#) [#simulated visual impairment](#) [#visual field defect](#) [#neuropsychology research](#)

Explore the fascinating insights into line bisection tasks conducted under conditions of simulated homonymous hemianopia. This research investigates how individuals with a visual field defect adapt their perceptual strategies, offering crucial data for understanding neuropsychology research and potential visual rehabilitation approaches.

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Line Bisection In Simulated Homonymous Hemianopia

Identifying Unilateral Neglect with the "Find the Midpoint Test" - Lorie Richards | MedBridge - Identifying Unilateral Neglect with the "Find the Midpoint Test" - Lorie Richards | MedBridge by MedBridge 17,782 views 4 years ago 1 minute, 42 seconds - I introduced "Helen," a 70-year-old right-sided stroke survivor who enjoys making and giving gifts to her loved ones. I discussed ...
Line Bisection Task | Identifying Unilateral Spatial Neglect | USN | Hemineglect | - Line Bisection Task | Identifying Unilateral Spatial Neglect | USN | Hemineglect | by BMH learning 389 views 6 months ago 1 minute, 4 seconds - The **Line Bisection**, Test is a test for quick measure to detect the presence of unilateral spatial neglect (USN). The test takes less ...
Homonymous Hemianopia - Homonymous Hemianopia by Neuro-Ophthalmology with Dr. Andrew G. Lee 54,036 views 6 years ago 7 minutes, 37 seconds - So we're gonna talk today about visual field defects and specifically about **homonymous hemianopsia**, so if you've got your ...
Hemianopia explained and simulated using an eye-tracker - Hemianopia explained and simulated using an eye-tracker by Bartiméus 31,645 views 9 years ago 9 minutes, 29 seconds
Homonymous Hemianopsia - Homonymous Hemianopsia by Chadwick Optical 21,449 views 5 years ago 3 minutes, 13 seconds - Describes what it's like to have **homonymous hemianopsia**, and what issues a patient may have.
Managing Obstacles: Walking and Driving With Homonymous Hemianopia • Alex Bowers, PhD - Managing Obstacles: Walking and Driving With Homonymous Hemianopia • Alex Bowers, PhD by Pediatric Epilepsy Surgery Alliance 4,781 views 4 years ago 1 hour, 6 minutes - Dr. Alex Bowers is an Associate Scientist at Schepens Eye Research Institute and Associate Professor at Harvard Medical School.
Intro
Homonymous Hemianopia (HH)
Homonymous Hemianopia (HH)
Why study driving with HH?
Compensating for HH
Head and eye tracking
Pedestrian detection task
Pedestrian locations
Detection rates on the blind side for each participant with HH

Inadequate scanning

Can we improve blind side scanning and detection?

Multicenter clinical trials of peripheral prism glasses

Driving simulator study

Blind side detection rates better with than without prisms

Summary: peripheral prism glasses

Simulation of left hemianopia

Right hemianopia Pedestrian on far right

Detection failures at intersections

Audio-cue scanning reminder device

Motorcycle hazard at intersection

Effect of an early large head scan (LHS)

Homonymous hemianopia - Homonymous hemianopia by Steve Jacques 26,678 views 6 years ago 9 minutes, 55 seconds - This project was created with Explain Everything™ Interactive Whiteboard for iPad.

Introduction

Approach

Analysis

Simulated lesion

Treating homonymous hemianopia, a live demonstration with a real patient. - Treating homonymous hemianopia, a live demonstration with a real patient. by Colin Perrott 10,484 views 11 years ago 7 minutes, 10 seconds - Ian has a right **hemianopia**, and the use of a Peli lens has helped treat his field loss.

Reel-Example: Hemineglect - Reel-Example: Hemineglect by Instant Neuro 49,673 views 7 years ago 1 minute, 13 seconds

Homonymous Hemianopia - Homonymous Hemianopia by Moran CORE 1,481 views 6 years ago 21 minutes - Title: **Homonymous Hemianopia**, Presenter: Obeldurahman Faiz Rehmani Affiliation: University of Utah Neurology Resident Date: ...

Introduction

Case

Initial MRI

MRI 6 months later

Differential diagnosis

General principles

Optic tract

Lateral geniculate body

Temporal lobe

Optical aids

Visual training

Conclusion

Simple Test for Vision After Stroke (Visual Field Test) - Simple Test for Vision After Stroke (Visual Field Test) by Bob & Brad 63,611 views 8 years ago 4 minutes, 7 seconds - Famous Physical Therapists Bob Schrupp and Brad Heineck demonstrate an easy to perform visual test for someone who has ... Recognizing Spatial Neglect - Recognizing Spatial Neglect by Kessler Foundation 57,549 views 4 years ago 3 minutes, 24 seconds - Spatial neglect is a hidden disability resulting from a brain injury and frequently occurs after a stroke. According to Kessler ...

Visual Field Examination - Visual Field Examination by OSCE Data-base 45,990 views 6 years ago 11 minutes, 1 second - Basic defects of Visual field. Common Findings: Right Hemianopia, Left Hemianopia, **Bitemporal Hemianopia**, , Tunnel vision.

Normal Visual Field

Right Homonymous Hemianopia

Tunnel Vision

Left Homonymous Hemianopia

What is Hemianopsia, Causes, Types, Symptoms, Diagnosis, Treatment - What is Hemianopsia, Causes, Types, Symptoms, Diagnosis, Treatment by Medstreamtv 4,138 views 3 years ago 5 minutes, 28 seconds - what is **hemianopsia**, Overview **Hemianopsia**, is a loss of vision in half of your visual field of one eye or both eyes. Common causes ...

Prof Alex Bowers on "Did you see that hazard? Scanning and detection deficits of drivers with ..." -

Prof Alex Bowers on "Did you see that hazard? Scanning and detection deficits of drivers with ..."

by BIU Vision Science 89 views 2 years ago 56 minutes - Prof Alex Bowers on "Did you see that hazard? Scanning and detection deficits of drivers with **hemianopia**,"

Intro

Homonymous hemianopia

Binocular visual field Patient with left hemianopia

Driving with hemianopia?

Reasons for failing road tests Problems with lane position and steering

Scanning and detection at intersections

Simulation of left hemianopia

On-road driving study

Driving simulator

Approaching an intersection

Lateral head rotation

Head scan numbers • Total number of scans did not differ from NV

Head scan magnitudes

Summary: head scanning Do people with hemianopia exhibit compensatory scanning?

Gaze scanning and detection of pedestrians at intersections

Methods

Results: Pedestrian detection rates

Pedestrian at far left

Was the pedestrian detected?

Gaze scanning and detection Pedestrians on blind side

Summary - pedestrians at intersections • People with hemianopia often do not scan the full width of the intersection on the blind side

Gaze scanning and detection of motorcycles at intersections

Motorcycle hazard at intersection

Results: Motorcycle detection rates

Response times when detected

Gaze scanning and detection failures

Summary: motorcycles at intersections • Wide range in blind side detection rates

Why might people with hemianopia fail to scan sufficiently to the blind side?

Auditory reminder cues to scan

Maximum gaze eccentricity to blind side

Maximum head eccentricity to blind side

Why was head scan magnitude predictive of detection?

Parameters to define an early large scan • Both gaze and head scan magnitude were predictive of detection before the intersection on the blind side

Right hemianopia

Responses to reminder cue

Proportion of intersections with an early large head scan (LHS)

Effects of the reminder cues 10 participants modified their scanning behaviors when driving with the reminders

When motorcycle detected ...

Dr. Michelle Sawtelle - Test Question Rationale Video: Homonymous Hemianopsia - Dr. Michelle Sawtelle - Test Question Rationale Video: Homonymous Hemianopsia by Academy of Neurologic Physical Therapy 217 views 1 year ago 8 minutes, 7 seconds - Dr. Sawtelle discusses evidence-based rationale toward the selection of the most appropriate answer to a sample test question.

Intervention Strategies for Homonymous Hemianopsia

Restorative Approach

Answer Choices

Encourage Mirror Therapy Activities

Visual problems following a brain injury or neurological condition - Visual problems following a brain injury or neurological condition by Christchurch Group 37,603 views 8 years ago 10 minutes, 55 seconds - Christchurch Group Physiotherapist, Sarah Cameron, explains how individuals with neurological difficulties following acquired ...

Intro

Sarah Cameron Physiotherapist Woodlands

50-72% of people that suffer a stroke will have visual problems

The Visual

The eyes
Muscular control
Visual pathways
Types of Visual Defects
Visual acuity
Visual field abnormalities
Visual perceptual deficit
Oculomotor control
The assessment
Hemianopia is a form of visual field loss
Visual Perception
Conclusion
Hemispatial Neglect Syndrome | StrokeFoundation.com - Hemispatial Neglect Syndrome | Stroke-Foundation.com by Stroke Foundation 473,867 views 11 years ago 5 minutes, 49 seconds - Patients could get hemispatial neglect syndrome after a stroke. Two patients explain the disruption to their everyday lives due to ...
What is Hemi neglect?
How to Accelerate FE Simulations of Lattices using Homogenization - How to Accelerate FE Simulations of Lattices using Homogenization by nTop 13,880 views 3 years ago 35 minutes - Homogenization is a technique that can greatly accelerate the **simulation**, of intricate lattice or cellular structures. Instead of ...
What Is Homogenization
The Stiffness Matrix
Unit Cell
Filter Mesh List
Edge Effects
Limitation of Homogenization
Export Material
Materials
Non-Homogenized Analysis
Mechanical Response
Chapter 03.03: Lesson: Bisection Method: Advantages and Drawbacks - Chapter 03.03: Lesson: Bisection Method: Advantages and Drawbacks by numericalmethodsguy 36,494 views 15 years ago 8 minutes, 32 seconds - Learn the advantages and drawbacks of the **bisection**, method - a numerical method to find roots of a nonlinear equation. For more ...
Advantage of the Bisection Method
Drawbacks of Bisection Method
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