

Practicum 3

Next Level Neurofeedback

2024

Learning Objectives: Day 1

Endogenous Neuromodulation and the Default Mode Network - Siegfried Othmer

1. Describe the essential differences between endogenous neuromodulation and neurofeedback through operant conditioning.
2. Explain the rationale behind training the default mode network.
3. Explain the rationale behind targeting the multimodal association areas with neurofeedback protocols.

Starting Sites, Arousal Indicators & Optimization Remastered - Darla Meulemans, Virginia Rojas-Albrieux

1. Improve decision-making skills and describe selection criteria for starting sites, analyzing traditional and alternate sites based on clinical presentation and expected training effects.
2. Analyze the different high and low arousal, what are the common mistakes in interpretation, and the importance of considering the client's overall clinical presentation.
3. Describe various perspectives and approaches in optimizing a client's training frequency based on high and low arousal indicators.

Lateralized and Interhemispheric Training - Darla Meulemans, Virginia Rojas-Albrieux

1. Discuss the transition from interhemispheric training to lateralized training in the context of the history of the field.
2. Explore the potential advantages of training with lateralized placements and interhemispheric placements.
3. Analyze what circumstances to consider moving to interhemispheric training (vs lateralized) and when to combine interhemispheric and lateralized training.

Learning Objectives: Day 1 continued

Case Summaries, Starting Site Options - Darla Meulemans, Virginia Rojas-Albriex

1. Engage in a collaborative discussion within the group, sharing insights on identified dysregulation patterns based on case summaries.
2. Learn from others' ideas and interpretations regarding dysregulation patterns identified in presented case summaries.
3. Develop a comprehensive understanding of deconstructing clients' reports and clinical presentations, effectively structuring the choice of the starting site.

Group Discussions and Session 1 - Darla Meulemans, Virginia Rojas-Albriex

1. Engage in discussions on optimizing protocols to improve overall brain performance.
2. Listen to other clinicians' presentations and learn about effective protocols.
3. Deepen knowledge and proficiency in conducting client interviews and tracking symptom progress.

Learning Objectives: Day 2

Midline Training - Recent Approaches - Darla Meulemans, Virginia Rojas-Albriex

1. Learn the latest perspectives on training midline placements and their relationship with the Default Mode Network.
2. Discuss different site combinations in the midline for effective neurofeedback.
3. Describe specific symptoms that could be impacted positively with midline training.

Functional Brain Areas Part 1 - Training the Central Strip: New Insights into the Homunculus - Darla Meulemans, Virginia Rojas-Albriex

1. Explain new perspectives on the Central strip based on the latest research and sites potentially associated with dysfunction.
2. Discuss the functions of the Central strip and symptoms associated with its dysfunction.
3. Explore lateralized and/or interhemispheric sites potentially addressing dysfunction of the Central strip.

Learning Objectives: Day 2 continued

Group Discussions and Session 2 - Darla Meulemans, Virginia Rojas-Albriex

1. Engage in discussions on optimizing protocols.
2. Listen to other clinicians' presentations, learning from successful protocols.
3. Deepen knowledge and proficiency in conducting client interviews and tracking symptom progress.

Case Summaries, Protocol Development & Clinical Decision Making - Darla Meulemans, Virginia Rojas-Albriex

1. Engage in a collaborative discussion on identified dysregulation patterns based on case summaries.
2. Learn from others' ideas and interpretations regarding dysregulation patterns identified in presented case summaries.
3. Develop a comprehensive understanding of deconstructing clients' reports clinical presentations, and effectively structuring the introduction and sequence of training sites.

Group Discussions and Session 3 - Darla Meulemans, Virginia Rojas-Albriex

1. Engage in discussions on optimizing protocols.
2. Listen to other clinicians' presentations, learning from successful protocols.
3. Deepen knowledge and proficiency in conducting client interviews and tracking symptom progress.

Learning Objectives: Day 3

Functional Brain Areas Part 2 - Training the Parietal Lobe - Darla Meulemans, Virginia Rojas-Albriex

1. Discuss different areas in the Parietal lobe and their functions.
2. Describe symptoms associated with Parietal lobe dysfunction in clinical presentations.
3. Explore lateralized and/or interhemispheric site options potentially addressing Parietal lobe dysfunction.

Learning Objectives: Day 3 continued

Functional Brain Areas Part 3: Training the Frontal Lobe - Darla Meulemans, Virginia Rojas-Albrieux

1. Discuss different areas in the Frontal lobe and their respective functions.
2. Describe symptoms associated with Frontal lobe dysfunction in clinical presentations.
3. Explore lateralized and/or interhemispheric site options potentially addressing Frontal lobe dysfunction.

Group Discussions and Session 4 - Darla Meulemans, Virginia Rojas-Albrieux

1. Engage in discussions on optimizing protocols.
2. Listen to other clinicians' presentations, learning from successful protocols.
3. Deepen knowledge and proficiency in conducting client interviews and tracking symptom progress.

Case Summaries, Protocol Development & Clinical Decision Making - Darla Meulemans, Virginia Rojas-Albrieux

1. Engage in a collaborative discussion on identified dysregulation patterns based on case summaries.
2. Learn from others' ideas and interpretations regarding dysregulation patterns identified in presented case summaries.
3. Develop a comprehensive understanding of deconstructing clients' reports clinical presentations, and effectively structuring the introduction and sequence of training sites.

Group Discussions and Session 5 - Darla Meulemans, Virginia Rojas-Albrieux

1. Engage in discussions on optimizing protocols.
2. Listen to other clinicians' presentations, learning from successful protocols.
3. Deepen knowledge and proficiency in conducting client interviews and tracking symptom progress.

Learning Objectives: Day 4

Functional Brain Areas Part 4 - Training the Temporal and Occipital Lobes

1. Discuss different areas in the Temporal and Occipital lobes and their functions.
2. Describe symptoms associated with Temporal and Occipital lobes dysfunction in clinical presentations.
3. Explore lateralized and/or interhemispheric site options potentially addressing dysfunction of the Temporal and Occipital lobes.

Group Discussions and Session 6 - Darla Meulemans, Virginia Rojas-Albriex

1. Engage in discussions on optimizing protocols.
2. Listen to other clinicians' presentations, learning from successful protocols.
3. Deepen knowledge and proficiency in conducting client interviews and tracking symptom progress.

Case Summaries, Protocol Development & Clinical Decision Making - Darla Meulemans, Virginia Rojas-Albriex

1. Engage in a collaborative discussion on identified dysregulation patterns based on case summaries.
 2. Learn from others' ideas and interpretations regarding dysregulation patterns identified in presented case summaries.
 3. Develop a comprehensive understanding of deconstructing clients' reports clinical presentations, and effectively structuring the introduction and sequence of training sites.
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Schedule

Day 1

- 7:15-8:00** Registration & Breakfast (included)
- 8:00-8:30** Welcome and Introductions
- 8:30-9:30** Endogenous Neuromodulation and the Default Mode Network Part 1
- 9:30-9:45** Break
- 9:45-10:15** Endogenous Neuromodulation and the Default Mode Network Part 2
- 10:15-11:15** The Evolution of Our Clinical Model: Lateralized and Interhemispheric Training
- 11:15-11:30** Break
- 11:30-12:30** Starting Sites, Arousal Indicators and Optimization Remastered
- 12:30-2:00** Lunch Break (On Own)
- 2:00-2:45** Case Summaries on Starting Sites
- 2:45-3:45** Group Discussions
- 3:45-5:00** Session #1

Day 2

- 7:00-8:00** Breakfast (included)
- 8:00-9:15** Midline Placements Training- Recent Approaches
- 9:15-9:30** Break
- 9:30-10:30** Functional Brain Areas Part 1: Training the Central Strip- New Insights into the Homunculus
- 10:30-11:15** Group Discussion
- 11:15-12:30** Session #2
- 12:30-2:00** Lunch Break (On Own)
- 2:00-2:45** Case Summaries, Protocol Development & Clinical Decision Making
- 2:45-3:45** Group Discussion
- 3:45-5:00** Session #3

Schedule continued

Day 3

- 7:00-8:00** Breakfast (included)
- 8:00-9:15** Functional Brain Areas Part 2: Training the Parietal and Occipital Lobe
- 9:15-9:30** Break
- 9:30-10:30** Functional Brain Areas Part 3: Training the Frontal Lobe
- 10:30-11:15** Group Discussions
- 11:15-12:30** Session #4
- 12:30-2:00** Lunch Break (On Own)
- 2:00-2:45** Case Summaries, Protocol Development & Clinical Decision Making
- 2:30-3:30** Group Discussions
- 2:45-3:45** Session #5

Day 4

- 7:00-8:00** Breakfast (included)
- 8:00-9:30** Functional Brain Areas Part 4: Training the Temporal and Temporoparietal Junction
- 9:30-9:45** Break
- 9:45-10:30** Group Discussions
- 10:30-11:45** Session #6
- 11:45-1:00** Lunch Break (Provided)
- 1:00-2:00** Case Summaries, Protocol Development & Clinical Decision Making
- 2:00-2:15** Closing Remarks & Course Evaluations