**Vanderbilt University Medical Center**

**Vanderbilt Alzheimer's Disease Research Center Consensus Diagnosis Conference-2023A-24 CME APA**

**Vanderbilt Memory and Alzheimer Center Lecture Series 2023-24A - CME - 9/10/2024 - Multi-echo, multi-contrast functional magnetic resonance imaging: optimization, validation, and applications**

Date: 12:00 September 10, 2024 - 01:00 September, 10, 2024

Location: Other

**Accreditation**

Vanderbilt University Medical Center is accredited by the Accreditation Council forContinuing Medical Education to provide continuing medical education for physicians.

Vanderbilt University Medical Center is approved by the American Psychological Association to sponsor continuing education for psychologists. Vanderbilt University Medical Center maintains responsibility for this program and its content.

**Credit Designation**

Vanderbilt University Medical Center designates this live activity for a maximum of 1.00 *AMA PRA Category 1 Credit(s)*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity

This activity is designated to award a maximum of 1.00 APA CE credit(s).

**Objectives**

After participating in this educational activity, you should be able to:

1 Discuss the strengths and weaknesses of different types of image contrasts for applications in functional magnetic resonance imaging (fMRI)

1 Evaluate how multi-echo, multi-contrast task-based fMRI compares to single-echo fMRI

1 Describe potential applications for a multi-echo, multi-contrast acquisition

1 Discuss the strengths and weaknesses of different types of image contrasts for applications in functional magnetic resonance imaging (fMRI)

1 Evaluate how multi-echo, multi-contrast task-based fMRI compares to single-echo fMRI

3 Describe potential applications for a multi-echo, multi-contrast acquisition

**Target Audience**

Neurology, Health Policy, Medicine, Pathology, Microbiology And Immunology, Pharmacology, Psychiatry And Behavioral Sciences, Radiology And Radiological Sciences

**Americans with Disabilities Act**

It is the policy of Vanderbilt University Medical Center not to discriminate against any person on the basis of disabilities. If you feel you need services or auxiliary aids mentioned in the Americans with Disabilities Act in order to fully participate in this continuing education activity, please contact the Office for Continuous Professional Development (OCPD) to request assistance.

**Commercial Support**

This activity received no commercial support.

**Financial Disclosures**

VUMC CE activities are compliant with the Standards for Integrity and Independence in accredited continuing education. Any individual in a position to control the content of a CE activity, including but not limited to planners and faculty, are required to disclose all relevant financial relationships with ineligible organizations.All relevant conflicts of interest have been mitigated before this activity started.

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| --- | --- | --- |
| **Name of individual** | **Individual's role in activity** | **Nature of Relationship(s) / Name of Ineligible Company(s)** |
| Katherine Gifford, PsyD | Faculty | Nothing to disclose - 06/27/2024 |
| Raymond R Romano, APRN | Faculty | Nothing to disclose - 03/20/2024 |
| Larry T Davis, MD | Faculty | Consulting Fee-Nashville Biosciences - 02/05/2024 |
| Paul A Newhouse, MD | Faculty |  |
| Angela Jefferson, PhD | Faculty | Membership on Advisory Committees or Review Panels, Board Membership, etc.-American Federation for Aging Resarch|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Kansas University|Membership on Advisory Committees or Review Panels, Board Membership, etc.-National Institutes of Health|Membership on Advisory Committees or Review Panels, Board Membership, etc.-National Institutes of Health|Grant or research support - 03/27/2024 |
| James E Eaton III, MD | Faculty | Nothing to disclose - 01/04/2024 |
| Hannah Harmsen, MD | Faculty |  |
| Derek B Archer, PhD | Faculty | Nothing to disclose - 05/13/2024 |
| Mary Ellen Koran, MD | Activity Director | Nothing to disclose - 11/30/2023 |
| Timothy J Hohman, PhD | Faculty | Membership on Advisory Committees or Review Panels, Board Membership, etc.-Vivid Genomics (Relationship has ended)|Membership on Advisory Committees or Review Panels, Board Membership, etc.-Alzheimer's Association - 03/26/2024 |
| Corey J Bolton, PsyD | Faculty | Nothing to disclose - 02/23/2024 |
| Michelle Houston, MA | CME/CE Associate | Nothing to disclose - 10/25/2023 |
| Amalia Peterson, MD | Faculty | Nothing to disclose - 05/08/2024 |
| Logan Dumitrescu, PhD | Faculty | Nothing to disclose - 01/10/2024 |
| Marissa Gogniat, PhD | Faculty |  |
| Elizabeth Keeling, BS | Faculty | Nothing to disclose - 08/30/2024 |

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* **For Vanderbilt learners:  <https://vumc.cloud-cme.com> and select Sign In > VUMC Faculty and Staff**

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* **Text the provided code above to 855-776-6263 to claim credit.**

If you need assistance claiming credit, please contact

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or visit <https://vumc.cloud-cme.com/about/help>