



Carolina V. Guimaraes

Clinical Associate Professor, Radiology - Pediatric Radiology

CLINICAL OFFICES

- **Department of Radiology**

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Bio

BIO

Dr. Guimaraes is a Clinical Associate Professor of Radiology at Stanford University working at Lucile Packard Children's Hospital Stanford as a full-time Pediatric Neuroradiologist. Her main interests within pediatric neuroradiology are fetal and neonatal imaging. Aside from her clinical work, Dr. Guimaraes is also interested in quality improvement and education. She has lead numerous quality improvement efforts throughout her career and gave many didactic lectures locally, nationally and internationally. Dr. Guimaraes serves on the Neuroradiology Committee for the Society of Pediatric radiology (SPR), Fetal Committee for SPR, Interesting Case Committee for the American Society of Pediatric Neuroradiology (ASPNR) and as a volunteer neuroradiologist reader for the World Federation of Pediatric Radiology (WFPR). She is one of the recipients of the 2020 Anne G. Osborn ASNR International Outreach Professor for the American Society of Neuroradiology.

CLINICAL FOCUS

- Diagnostic Radiology
- Pediatric Neuroradiology
- Fetal Imaging

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Radiology - Pediatric Radiology

HONORS AND AWARDS

- 2020 Anne G. Osborn ASNR International Outreach Professor, ASNR

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Neuroradiology volunteer reader, World Federation of Pediatric Radiology (2016 - present)
- Fetal Imaging committee, Society for Pediatric Radiology (2017 - present)
- Neuroradiology committee, Society for Pediatric Radiology (2015 - present)
- Interesting Case committee, American Society of Neuroradiology (2019 - present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Radiology, American Board of Radiology (2018)
- Board Certification: Diagnostic Radiology, American Board of Radiology (2011)
- Fellowship: Cincinnati Childrens Hospital and Medical Center Radiology Fellowships (2009) OH
- Fellowship: Cincinnati Childrens Hospital and Medical Center Radiology Fellowships (2008) OH
- Residency: Hospital Mae de Deus (2005) Brazil
- Medical Education: University of Caxias do Sul (2002) Brazil
- Board Certification, American Board of Radiology (2011)
- Pediatric Neuroradiology Fellow, Cincinnati Children's Hospital (2009)
- Pediatric Radiology Fellow, Cincinnati Children's Hospital (2008)
- Pediatric Radiology Research, Cincinnati Children's Hospital (2007)
- Radiology Residency, Hospital Mae de Deus - Brazil (2005)
- Medical Doctor, Universidade de Caxias do Sul - Brazil (2002)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Fetal Neuro Imaging

Pediatric Neuroradiology

Publications

PUBLICATIONS

- **Response assessment in diffuse intrinsic pontine glioma: recommendations from the Response Assessment in Pediatric Neuro-Oncology (RAPNO) working group** *LANCET ONCOLOGY*
Cooney, T. M., Cohen, K. J., Guimaraes, C. V., Dhall, G., Leach, J., Massimino, M., Erbetta, A., Chiapparini, L., Malbari, F., Kramer, K., Pollack, I. F., Baxter, P., Laughlin, et al
2020; 21 (6): E330–E336
- **Response assessment in diffuse intrinsic pontine glioma: recommendations from the Response Assessment in Pediatric Neuro-Oncology (RAPNO) working group.** *The Lancet. Oncology*
Cooney, T. M., Cohen, K. J., Guimaraes, C. V., Dhall, G., Leach, J., Massimino, M., Erbetta, A., Chiapparini, L., Malbari, F., Kramer, K., Pollack, I. F., Baxter, P., Laughlin, et al
2020; 21 (6): e330–e336
- **Comparison of brain microstructure after prenatal spina bifida repair by either laparotomy assisted fetoscopic or open approach.** *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*
Cortes, M. S., Torres, P., Yepez, M., Guimaraes, C., Zarutskie, A., Shetty, A., Hsiao, A., Pyrali, M., Davila, I., Espinoza, J., Shamshirsaz, A. A., Nassr, A., Whitehead, et al
2019
- **Does fetoscopic or open repair for spina bifida affect fetal and postnatal growth?** *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*
Sanz Cortes, M., Davila, I., Torres, P., Yepez, M., Lee, W., Guimaraes, C. V., Sangi-Haghepykar, H., Whitehead, W., Castillo, J., Nassr, A. A., Espinoza, J., Shamshirsaz, A., Belfort, et al
2019
- **Prenatal brain imaging for predicting postnatal hydrocephalus treatment in fetuses that had neural tube defect repair.** *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*
Zarutskie, A., Guimaraes, C., Yepez, M., Torres, P., Shetty, A., Sangi-Haghepykar, H., Lee, W., Espinoza, J., Shamshirsaz, A., Nassr, A., Belfort, M., Whitehead, W., Sanz Cortes, et al

2019

- **Efficient Auditing of Standardized Reporting in Radiology Reply** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
Guimaraes, C. V., Grzeczczuk, R., Bisset, G. S., Donnelly, L. F.
2019; 16 (1): 6–7
- **Using a Natural Language Processing and Machine Learning Algorithm Program to Analyze Inter-Radiologist Report Style Variation and Compare Variation Between Radiologists When Using Highly Structured Versus More Free Text Reporting.** *Current problems in diagnostic radiology*
Donnelly, L. F., Grzeczczuk, R., Guimaraes, C. V., Zhang, W., Bisset Iii, G. S.
2018
- **Dysplastic megalencephaly phenotype presenting with prenatal high-output cardiac failure** *PEDIATRIC RADIOLOGY*
Braojos, F., Guimaraes, C. A.
2018; 48 (8): 1172–77
- **Implementing a Systematic Approach to Improve Governance and Deployment of Imaging Codes in Radiology** *CURRENT PROBLEMS IN DIAGNOSTIC RADIOLOGY*
Guimaraes, C. V., Smith, L. A., Garza, J. A., Blado, M. E., Lokey, C. S., Donnelly, L. F.
2018; 47 (4): 215–19
- **Congenital Aqueductal Stenosis: Findings at Fetal MRI That Accurately Predict a Postnatal Diagnosis** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Heaphy-Henault, K. J., Guimaraes, C. V., Mehollin-Ray, A. R., Cassady, C. I., Zhang, W., Desai, N. K., Paldino, M. J.
2018; 39 (5): 942–48
- **Comparison Between Manual Auditing and a Natural Language Process With Machine Learning Algorithm to Evaluate Faculty Use of Standardized Reports in Radiology** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
Guimaraes, C. V., Grzeczczuk, R., Bisset, G. S., Donnelly, L. F.
2018; 15 (3): 550–53
- **Congenital Mydriasis With Aortic and Cerebrovascular Disease** *PEDIATRIC NEUROLOGY*
Lam, S., Guimaraes, C., Jones, J. Y.
2017; 74: 100–101
- **Extrafetal Findings on Fetal Magnetic Resonance Imaging: A Pictorial Essay** *SEMINARS IN ULTRASOUND CT AND MRI*
Epelman, M., Merrow, A. C., Guimaraes, C. V., Victoria, T., Calvo-Garcia, M. A., Kline-Fath, B. M.
2015; 36 (6): 550–67
- **Current Role of Fetal Magnetic Resonance Imaging in Neurologic Anomalies** *SEMINARS IN ULTRASOUND CT AND MRI*
Lyons, K., Cassady, C., Jones, J., Paldino, M., Mehollin-Ray, A., Guimaraes, C., Krishnamurthy, R.
2015; 36 (4): 298–309
- **Easily Overlooked Sonographic Findings in the Evaluation of Neonatal Encephalopathy: Lessons Learned From Magnetic Resonance Imaging** *SEMINARS IN ULTRASOUND CT AND MRI*
Dinan, D., Daneman, A., Guimaraes, C. V., Chauvin, N. A., Victoria, T., Epelman, M.
2014; 35 (6): 627–51
- **Facial Mass in an Infant Langerhans cell histiocytosis (LCH)** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
Hall, M. B., Guimaraes, C. V., Nardone, H. C.
2014; 140 (5): 475–76
- **The Current State of Imaging Pediatric Hemoglobinopathies** *SEMINARS IN ULTRASOUND CT AND MRI*
Dinan, D., Epelman, M., Guimaraes, C. V., Donnelly, L. F., Nagasubramanian, R., Chauvin, N. A.
2013; 34 (6): 493–515
- **Fetal MRI of cloacal exstrophy** *PEDIATRIC RADIOLOGY*
Calvo-Garcia, M. A., Kline-Fath, B. M., Rubio, E. I., Merrow, A. C., Guimaraes, C. V., Lim, F.
2013; 43 (5): 593–604
- **Trainee Misinterpretations on Pediatric Neuroimaging Studies: Classification, Imaging Analysis, and Outcome Assessment** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Guimaraes, C. A., Leach, J. L., Jones, B. V.

2011; 32 (9): 1591–99

● **MRI findings in multifetal pregnancies complicated by twin reversed arterial perfusion sequence (TRAP)** *PEDIATRIC RADIOLOGY*

Guimaraes, C. A., Kline-Fath, B. M., Linam, L. E., Garcia, M., Rubio, E. I., Lim, F.

2011; 41 (6): 694–701

● **Prenatal MRI Findings of Fetuses with Congenital High Airway Obstruction Sequence** *KOREAN JOURNAL OF RADIOLOGY*

Guimaraes, C. A., Linam, L. E., Kline-Fath, B. M., Donnelly, L. F., Calvo-Garcia, M. A., Rubio, E. I., Livingston, J. C., Hopkin, R. J., Peach, E., Lim, F., Crombleholme, T. M.

2009; 10 (2): 129–34

● **The frequency of lingual tonsil enlargement in obese children** *AMERICAN JOURNAL OF ROENTGENOLOGY*

Guimaraes, C. A., Kalra, M., Donnelly, L. F., Shott, S. R., Fitz, K., Singla, S., Amin, R. S.

2008; 190 (4): 973–75