



Beverley Newman

Professor of Radiology (Pediatric Radiology)

Radiology - Pediatric Radiology

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **LPCH Pediatric Radiology**

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Bio

CLINICAL FOCUS

- Diagnostic Radiology
- Pediatric Radiology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Radiology - Pediatric Radiology

PROFESSIONAL EDUCATION

- Residency: Boston University Medical Center Radiology Residency (1982) MA
- Residency: Boston Childrens Hospital Pediatric Residency (1980) MA
- Fellowship: Boston Children's Hospital (1984) MA
- Residency: Johannesburg General Hospital Complex (1978) South Africa
- Board Certification: Pediatric Radiology, American Board of Radiology (1995)
- Board Certification: Diagnostic Radiology, American Board of Radiology (1983)
- Internship: Johannesburg General Hospital Complex (1977) South Africa
- Medical Education: University of Witwatersrand (1976) South Africa

Research & Scholarship

CLINICAL TRIALS

- Controlled Ventilation CT in CF Infants, Not Recruiting
- Outcome Measures in Infant/Early Childhood Lung Disease w/ Chest CT Scanning & Lung Function Testing, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Pediatric Radiology (Fellowship Program)

Publications

PUBLICATIONS

- **Congenital Absence of the Pericardium: Pearls and Pitfalls.** *Seminars in ultrasound, CT, and MR*
Newman, B.
2022; 43 (1): 47-50
- **Magnetic resonance imaging for congenital lung malformations.** *Pediatric radiology*
Newman, B.
2021
- **Improved detection of air trapping on expiratory computed tomography using deep learning.** *PloS one*
Ram, S. n., Hoff, B. A., Bell, A. J., Galban, S. n., Fortuna, A. B., Weinheimer, O. n., Wielpütz, M. O., Robinson, T. E., Newman, B. n., Vummidi, D. n., Chughtai, A. n., Kazerooni, E. A., Johnson, et al
2021; 16 (3): e0248902
- **Congenital central pulmonary artery anomalies: Part 2.** *Pediatric radiology*
Newman, B., Alkhori, N.
2020
- **Congenital central pulmonary artery anomalies: Part 1.** *Pediatric radiology*
Newman, B., Alkhori, N.
2020
- **Mucus plugging, air trapping, and bronchiectasis are important outcome measures in assessing progressive childhood cystic fibrosis lung disease.** *Pediatric pulmonology*
Robinson, T. E., Goris, M. L., Moss, R. B., Tian, L., Kan, P., Yilma, M., McCoy, K. S., Newman, B., de Jong, P. A., Long, F. R., Brody, A. S., Behrje, R., Yates, et al
2020
- **Left ventricular retraining in corrected transposition: Relationship between pressure and mass.** *The Journal of thoracic and cardiovascular surgery*
Mainwaring, R. D., Patrick, W. L., Arunamata, A., Chan, F., Newman, B., Rosenblatt, T. R., Kamra, K., Hanley, F. L.
2019
- **Ultrafast pediatric chest computed tomography: comparison of free-breathing vs. breath-hold imaging with and without anesthesia in young children** *PEDIATRIC RADIOLOGY*
Kino, A., Zucker, E. J., Honkanen, A., Kneebone, J., Wang, J., Chan, F., Newman, B.
2019; 49 (3): 301-307
- **Ultrafast pediatric chest computed tomography: comparison of free-breathing vs. breath-hold imaging with and without anesthesia in young children.** *Pediatric radiology*
Kino, A., Zucker, E. J., Honkanen, A., Kneebone, J., Wang, J., Chan, F., Newman, B.
2018
- **Tumor-induced Osteomalacia in a 3-Year-Old With Unresectable Central Giant Cell Lesions** *JOURNAL OF PEDIATRIC HEMATOLOGY ONCOLOGY*
Crossen, S. S., Zambrano, E., Newman, B., Bernstein, J. A., Messner, A. H., Bachrach, L. K., Twist, C. J.
2017; 39 (1): E21-E24
- **Congenital Variants and Anomalies of the Aortic Arch** *RADIOGRAPHICS*
Hanneman, K., Newman, B., Chan, F.
2017; 37 (1): 32-51

- **Congenital Variants and Anomalies of the Aortic Arch. *Radiographics***
Hanneman, K., Newman, B., Chan, F.
2017; 37 (1): 32-51
- **Persistent fifth arch anomalies - broadening the spectrum to include a variation of double aortic arch vascular ring *PEDIATRIC RADIOLOGY***
Newman, B., Hanneman, K., Chan, F.
2016; 46 (13): 1866-1872
- **Tumor-induced Osteomalacia in a 3-Year-Old With Unresectable Central Giant Cell Lesions. *Journal of pediatric hematology/oncology***
Crossen, S. S., Zambrano, E., Newman, B., Bernstein, J. A., Messner, A. H., Bachrach, L. K., Twist, C. J.
2016: -?
- **Analysis of Kidney Ultrasound Dimensions by Body Habitus and Position *JOURNAL OF UROLOGY***
Kouba, E., Newman, B., Shortliffe, L. M.
2016; 196 (3): 943-949
- **Analysis of Kidney Ultrasound Dimensions by Body Habitus and Position. *journal of urology***
Kouba, E., Newman, B., Dairiki Shortliffe, L. M.
2016; 196 (3): 943-949
- **Improved Quantification and Mapping of Anomalous Pulmonary Venous Flow With Four-Dimensional Phase-Contrast MRI and Interactive Streamline Rendering *JOURNAL OF MAGNETIC RESONANCE IMAGING***
Hsiao, A., Yousaf, U., Alley, M. T., Lustig, M., Chan, F. P., Newman, B., Vasanaawala, S. S.
2015; 42 (6): 1765-1776
- **Improved quantification and mapping of anomalous pulmonary venous flow with four-dimensional phase-contrast MRI and interactive streamline rendering. *Journal of magnetic resonance imaging : JMRI***
Hsiao, A., Yousaf, U., Alley, M. T., Lustig, M., Chan, F. P., Newman, B., Vasanaawala, S. S.
2015; 42 (6): 1765-76
- **Perinatal Thoracic Mass Lesions: Pre- and Postnatal Imaging. *Seminars in ultrasound, CT, and MR***
Zucker, E. J., Epelman, M., Newman, B.
2015; 36 (6): 501-521
- **Added Value of Radiologist Consultation for Pediatric Ultrasound: Implementation and Survey Assessment. *AJR. American journal of roentgenology***
Zucker, E. J., Newman, B., Larson, D. B., Rubesova, E., Barth, R. A.
2015; 205 (4): 822-826
- **Radiologist Compliance With California CT Dose Reporting Requirements: A Single-Center Review of Pediatric Chest CT *AMERICAN JOURNAL OF ROENTGENOLOGY***
Zucker, E. J., Larson, D. B., Newman, B., Barth, R. A.
2015; 204 (4): 810-816
- **Vascular Lesions-Congenital, Acquired, and Iatrogenic: Imaging in the Neonate *SEMINARS IN ULTRASOUND CT AND MRI***
Epelman, M., Johnson, C., Hellinger, J. C., Darge, K., Newman, B.
2015; 36 (2): 193-215
- **Meconium in Perinatal Imaging: Associations and Clinical Significance *SEMINARS IN ULTRASOUND CT AND MRI***
Jerdee, T., Newman, B., Rubesova, E.
2015; 36 (2): 161-177
- **The incidental pulmonary nodule in a child Part 1: recommendations from the SPR Thoracic Imaging Committee regarding characterization, significance and follow-up *PEDIATRIC RADIOLOGY***
Westra, S. J., Brody, A. S., Mahani, M. G., Guillerman, R. P., Hegde, S. V., Iyer, R. S., Lee, E. Y., Newman, B., Podberesky, D. J., Thacker, P. G.
2015; 45 (5): 628-633
- **Congenital peribronchial myofibroblastic tumor: case report of an asymptomatic infant with a rapidly enlarging pulmonary mass and review of the literature. *Annals of clinical and laboratory science***
Brock, K. E., Wall, J., Esquivel, M., Newman, B., Marina, N., Albanese, C., Hazard, F. K.

2015; 45 (1): 83-89

- **Cystic Lung Lesions in Newborns and Young Children: Differential Considerations and Imaging** *SEMINARS IN ULTRASOUND CT AND MRI*
Newman, B., Caplan, J.
2014; 35 (6): 571-587
- **Quality Improvement in Neonatal Digital Radiography: Implementing the Basic Quality Improvement Tools** *SEMINARS IN ULTRASOUND CT AND MRI*
Eslamy, H. K., Newman, B., Weinberger, E.
2014; 35 (6): 608-626
- **Cystic lung lesions in newborns and young children: differential considerations and imaging.** *Seminars in ultrasound, CT, and MR*
Newman, B., Caplan, J.
2014; 35 (6): 571-587
- **Pediatric CT quality management and improvement program** *PEDIATRIC RADIOLOGY*
Larson, D. B., Molvin, L. Z., Wang, J., Chan, F. P., Newman, B., Fleischmann, D.
2014; 44: 519-524
- **Pediatric CT quality management and improvement program.** *Pediatric radiology*
Larson, D. B., Molvin, L. Z., Wang, J., Chan, F. P., Newman, B., Fleischmann, D.
2014; 44: 519-524
- **Perforated appendicitis: an underappreciated mimic of intussusception on ultrasound.** *Pediatric radiology*
Newman, B., Schmitz, M., Gawande, R., Vasanaawala, S., Barth, R.
2014; 44 (5): 535-541
- **Heterotaxy syndromes and abnormal bowel rotation.** *Pediatric radiology*
Newman, B., Koppolu, R., Murphy, D., Sylvester, K.
2014; 44 (5): 542-551
- **Chest CT in children: anesthesia and atelectasis.** *Pediatric radiology*
Newman, B., Krane, E. J., Gawande, R., Holmes, T. H., Robinson, T. E.
2014; 44 (2): 164-172
- **Comparison of Different Methods of Calculating CT Radiation Effective Dose in Children** *Annual Meeting of the Society-for-Pediatric-Radiology*
Newman, B., Ganguly, A., Kim, J., Robinson, T.
AMER ROENTGEN RAY SOC.2012: W232–W239
- **Pulmonary reperfusion injury after the unifocalization procedure for tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collateral arteries** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Maskatia, S. A., Feinstein, J. A., Newman, B., Hanley, F. L., Roth, S. J.
2012; 144 (1): 184-189
- **Reply to commentary - CT radiation dose reduction: can we do harm by doing good?** *PEDIATRIC RADIOLOGY*
Newman, B., Callahan, M. J.
2012; 42 (4): 399-401
- **Combined respiratory and cardiac triggering improves blood pool contrast-enhanced pediatric cardiovascular MRI** *PEDIATRIC RADIOLOGY*
Vasanaawala, S. S., Chan, F. P., Newman, B., Alley, M. T.
2011; 41 (12): 1536-1544
- **Pause and Pulse: Radiation Dose in Pediatric Fluoroscopy** *PEDIATRICS IN REVIEW*
Newman, B., John, S., Goske, M., Hernanz-Schulman, M.
2011; 32 (9): E83-E90
- **ALARA (as low as reasonably achievable) CT 2011--executive summary.**
Newman, B., Callahan, M. J.
2011: 453–55

- **Ultrasound body applications in children.** *Pediatric radiology*
Newman, B.
2011; 41: 555-561
- **Pneumonia in Normal and Immunocompromised Children: An Overview and Update** *RADIOLOGIC CLINICS OF NORTH AMERICA*
Eslamy, H. K., Newman, B.
2011; 49 (5): 895-?
- **Point/counterpoint: dose-related issues in cardiac CT imaging.** *Pediatric radiology*
Newman, B., Vasanaawala, S. S.
2011; 41: 528-533
- **Thoracic Neoplasms in Children** *RADIOLOGIC CLINICS OF NORTH AMERICA*
Newman, B.
2011; 49 (4): 633-?
- **PULMONARY REPERFUSION INJURY AFTER THE UNIFOCALIZATION PROCEDURE FOR TETRALOGY OF FALLOT, PULMONARY ATRESIA AND MAJOR AORTOPULMONARY COLLATERAL ARTERIES** *60th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC) / 12 Summit / ACCF/Herman K. Gold Young Investigator's Award in Molecular and Cellular Cardiology*
Maskatia, S., Feinstein, J. A., Newman, B., Hanley, F. L., Roth, S. J.
ELSEVIER SCIENCE INC.2011: E419-E419
- **Effectiveness of a Staged US and CT Protocol for the Diagnosis of Pediatric Appendicitis: Reducing Radiation Exposure in the Age of ALARA** *RADIOLOGY*
Krishnamoorthi, R., Ramarajan, N., Wang, N. E., Newman, B., Rubesova, E., Mueller, C. M., Barth, R. A.
2011; 259 (1): 231-239
- **Development and Validation of Automated 2D-3D Bronchial Airway Matching to Track Changes in Regional Bronchial Morphology Using Serial Low-Dose Chest CT Scans in Children with Chronic Lung Disease** *JOURNAL OF DIGITAL IMAGING*
Raman, P., Raman, R., Newman, B., Venkatraman, R., Raman, B., Robinson, T. E.
2010; 23 (6): 744-754
- **Congenital extrahepatic portosystemic shunt associated with heterotaxy and polysplenia** *PEDIATRIC RADIOLOGY*
Newman, B., Feinstein, J. A., Cohen, R. A., Feingold, B., Kreutzer, J., Patel, H., Chan, F. P.
2010; 40 (7): 1222-1230
- **Rudhe syndrome: reversible right middle lobe emphysema in infants with left-to-right shunts-an historical review** *PEDIATRIC RADIOLOGY*
Collins, L. K., Levin, T. L., Berdon, W. E., Cowles, R. A., Newman, B.
2010; 40 (5): 762-765
- **Evaluation of a Radiation Dose Reduction Strategy for Pediatric Chest CT** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Kim, J., Newman, B.
2010; 194 (5): 1188-1193
- **Left Pulmonary Artery Sling-Anatomy and Imaging** *SEMINARS IN ULTRASOUND CT AND MRI*
Newman, B., Cho, Y. A.
2010; 31 (2): 158-170
- **A pitfall of radioisotope quantification of the ratio of pulmonary blood flow to systemic blood flow (Qp/Qs) in a patient with severe postoperative pulmonary venous obstruction** *CLINICAL NUCLEAR MEDICINE*
Newman, B., Grosse-Wortmann, L., Charron, M., Yoo, S. J.
2008; 33 (8): 521-524
- **Safety in pediatric MR and cardiac CT - Results of a membership survey of the Society for Pediatric Radiology - 2006** *PEDIATRIC RADIOLOGY*
Kaste, S., Laningham, F., Stazzone, M., Brown, S. D., Emery, K., Newman, B., Racadio, J., Estroff, J., Brill, P., Mendelson, K. L., Slovis, T. L., Frush, D.
2007; 37 (4): 409-12