

Stanford



Ann Leung

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CLINICAL OFFICES

- **Diagnostic Radiology**

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ACADEMIC CONTACT INFORMATION

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Bio

CLINICAL FOCUS

- Diagnostic Radiology

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Radiology

ADMINISTRATIVE APPOINTMENTS

- Associate Chair, Stanford University School of Medicine - Radiology, (2004- present)

PROFESSIONAL EDUCATION

- Residency: University of British Columbia Radiology Residency (1992) Canada
- Internship: St Michael's Hospital Postgraduate Medical Education (1987) Canada
- Medical Education: University of British Columbia Radiology Residency (1986) Canada
- Fellowship: L'Hopital Pitie-Salpetriere (1993) France
- Board Certification: Diagnostic Radiology, American Board of Radiology (1992)
- Board Certification: Diagnostic Radiology, Royal College of Physicians and Surgeons of Canada (1992)
- BSc, McGill University , Biochemistry (1982)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

High-resolution computed tomography of the thorax., particularly its application in the setting of acute lung disease in the immunocompromised host; quantitative assessment of abnormalities, using spiral CT; and enhancement characteristics of lung cancers on, CT and MRI

CLINICAL TRIALS

- Pulmonary Interstitial Lymphography in Early Stage Lung Cancer, Not Recruiting

Publications

PUBLICATIONS

- **[18F] FDG Positron Emission Tomography (PET) Tumor and Penumbra Imaging Features Predict Recurrence in Non-Small Cell Lung Cancer.** *Tomography (Ann Arbor, Mich.)*
Mattonen, S. A., Davidzon, G. A., Bakr, S., Echegaray, S., Leung, A. N., Vasanaawala, M., Hornig, G., Napel, S., Nair, V. S.
2019; 5 (1): 145–53
- **A radiogenomic dataset of non-small cell lung cancer.** *Scientific data*
Bakr, S., Gevaert, O., Echegaray, S., Ayers, K., Zhou, M., Shafiq, M., Zheng, H., Benson, J. A., Zhang, W., Leung, A. N., Kadoch, M., D Hoang, C., Shrager, et al
2018; 5: 180202
- **Invited Commentary on "Updated Fleischner Society Guidelines for Managing Incidental Pulmonary Nodules".** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Leung, A. N.
2018; 38 (5): 1350–51
- **Computed Tomography Features associated With the Eighth Edition TNM Stage Classification for Thymic Epithelial Tumors** *JOURNAL OF THORACIC IMAGING*
Padda, S. K., Terrone, D., Tian, L., Khuong, A., Neal, J. W., Riess, J. W., Berry, M. F., Hoang, C. D., Burt, B. M., Leung, A. N., Schwartz, E. J., Shrager, J. B., Wakelee, et al
2018; 33 (3): 176–83
- **Lung Cancer Screening, Version 3.2018** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Wood, D. E., Kazerooni, E. A., Baum, S. L., Eapen, G. A., Ettinger, D. S., Hou, L., Jackman, D. M., Klippenstein, D., Kumar, R., Lackner, R. P., Leard, L. E., Lennes, I. T., Leung, et al
2018; 16 (4): 412–41
- **Presence of Even a Small Ground-Glass Component in Lung Adenocarcinoma Predicts Better Survival** *CLINICAL LUNG CANCER*
Berry, M. F., Gao, R., Kunder, C. A., Backhus, L., Khuong, A., Kadoch, M., Leung, A., Shrager, J.
2018; 19 (1): E47–E51
- **An Analysis of Lung Cancer Screening Beliefs and Practice Patterns for Community Providers Compared to Academic Providers.** *Cancer control : journal of the Moffitt Cancer Center*
Khairy, M., Duong, D. K., Shariff-Marco, S., Cheng, I., Jain, J., Balakrishnan, A., Liu, L., Gupta, A., Chandramouli, R., Hsing, A., Leung, A., Singh, B., Nair, et al
2018; 25 (1): 1073274818806900
- **Non-Small Cell Lung Cancer Radiogenomics Map Identifies Relationships between Molecular and Imaging Phenotypes with Prognostic Implications.** *Radiology*
Zhou, M., Leung, A., Echegaray, S., Gentles, A., Shrager, J. B., Jensen, K. C., Berry, G. J., Plevritis, S. K., Rubin, D. L., Napel, S., Gevaert, O.
2018; 286 (1): 307–15
- **Evaluating the impact of varied compliance to lung cancer screening recommendations using a microsimulation model** *CANCER CAUSES & CONTROL*
Han, S. S., Erdogan, S., Toumazis, I., Leung, A., Plevritis, S. K.
2017; 28 (9): 947–58
- **Patient and primary care provider attitudes and adherence towards lung cancer screening at an academic medical center.** *Preventive medicine reports*
Duong, D. K., Shariff-Marco, S., Cheng, I., Naemi, H., Moy, L. M., Haile, R., Singh, B., Leung, A., Hsing, A., Nair, V. S.
2017; 6: 17-22
- **Prediction of EGFR and KRAS mutation in non-small cell lung cancer using quantitative 18F FDG-PET/CT metrics.** *Oncotarget*
Minamimoto, R., Jamali, M., Gevaert, O., Echegaray, S., Khuong, A., Hoang, C. D., Shrager, J. B., Plevritis, S. K., Rubin, D. L., Leung, A. N., Napel, S., Quon, A.
2017
- **Left Atrium Maximal Axial Cross-Sectional Area is a Specific Computed Tomographic Imaging Biomarker of World Health Organization Group 2 Pulmonary Hypertension.** *Journal of thoracic imaging*
Jivraj, K., Bedayat, A., Sung, Y. K., Zamanian, R. T., Haddad, F., Leung, A. N., Rosenberg, J., Guo, H. H.
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- **Thoracic Imaging Features of Legionnaire's Disease** *INFECTIOUS DISEASE CLINICS OF NORTH AMERICA*
Mittal, S., Singh, A. P., Gold, M., Leung, A. N., Haramati, L. B., Katz, D. S.
2017; 31 (1): 43-+
- **Predictive radiogenomics modeling of EGFR mutation status in lung cancer** *SCIENTIFIC REPORTS*
Gevaert, O., Echegaray, S., Khuong, A., Hoang, C. D., Shrager, J. B., Jensen, K. C., Berry, G. J., Guo, H. H., Lau, C., Plevritis, S. K., Rubin, D. L., Napel, S., Leung, et al
2017; 7
- **Adaptation of Mycobacterium tuberculosis to Impaired Host Immunity in HIV-Infected Patients** *JOURNAL OF INFECTIOUS DISEASES*
Walter, N. D., de Jong, B. C., Garcia, B. J., Dolganov, G. M., Worodria, W., Byanyima, P., Musisi, E., Huang, L., Chan, E. D., Van, T. T., Antonio, M., Ayorinde, A., Kato-Maeda, et al
2016; 214 (8): 1205-1211
- **A Rapid Segmentation-Insensitive 'Digital Biopsy' Method for Radiomic Feature Extraction; Method and Pilot Study Using CT Images of Non-Small Cell Lung Cancer** *Tomography*
Echegaray, S., Nair, V., Kadoch, M., Leung, A., Rubin, D., Gevaert, O., Napel Sandy, et al
2016; 2 (4): 283-94
- **Diameter of Solid Tumor Component Alone Should be Used to Establish T Stage in Lung Adenocarcinoma.** *Annals of surgical oncology*
Burt, B. M., Leung, A. N., Yanagawa, M., Chen, W., Groth, S. S., Hoang, C. D., Nair, V. S., Shrager, J. B.
2015; 22: 1318-1323
- **Diameter of Solid Tumor Component Alone Should be Used to Establish T Stage in Lung Adenocarcinoma** *ANNALS OF SURGICAL ONCOLOGY*
Burt, B. M., Leung, A. N., Yanagawa, M., Chen, W., Groth, S. S., Hoang, C. D., Nair, V. S., Shrager, J. B.
2015; 22: S1318-S1323
- **Computed Tomography (CT) Characteristics Associated with the Proposed IASLC/ITMIG TNM Pathologic Staging System for Thymoma**
Padda, S. K., Terrone, D., Khuong, A., Tian, L., Neal, J. W., Riess, J. W., Berry, M., Leung, A. N., Schwartz, E. J., Shrager, J. B., Wakelee, H. A.
ELSEVIER SCIENCE INC.2015: S196
- **Automated classification of usual interstitial pneumonia using regional volumetric texture analysis in high-resolution computed tomography.** *Investigative radiology*
Depeursinge, A., Chin, A. S., Leung, A. N., Terrone, D., Bristow, M., Rosen, G., Rubin, D. L.
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- **Predicting adenocarcinoma recurrence using computational texture models of nodule components in lung CT** *MEDICAL PHYSICS*
Depeursinge, A., Yanagawa, M., Leung, A. N., Rubin, D. L.
2015; 42 (4): 2054-2063
- **Lung Cancer Screening, Version 1.2015 Featured Updates to the NCCN Guidelines** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Wood, D. E., Kazerooni, E., Baum, S. L., Dransfield, M. T., Eapen, G. A., Ettinger, D. S., Hou, L., Jackman, D. M., Klippenstein, D., Kumar, R., Lackner, R. P., Leard, L. E., Leung, et al
2015; 13 (1): 23-34
- **Lung Volume Reduction After Stereotactic Ablative Radiation Therapy of Lung Tumors: Potential Application to Emphysema** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Binkley, M. S., Shrager, J. B., Leung, A. N., Popat, R., Trakul, N., Atwood, T. F., Chaudhuri, A., Maxim, P. G., Diehn, M., Loo, B. W.
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- **COMPUTED TOMOGRAPHY (CT) CHARACTERISTICS ASSOCIATED WITH MASAOKA-KOGA PATHOLOGIC STAGE IN THYMOMA**
Padda, S., Terrone, D., Khuong, A., Tian, L., Neal, J. W., Riess, J. W., Hoang, C. D., Burt, B. M., Leung, A. N., Shrager, J. B., Wakelee, H. A.
LIPPINCOTT WILLIAMS & WILKINS.2014: S222
- **ACR-STR practice parameter for the performance and reporting of lung cancer screening thoracic computed tomography (CT): 2014 (Resolution 4).** *Journal of thoracic imaging*
Kazerooni, E. A., Austin, J. H., Black, W. C., Dyer, D. S., Hazelton, T. R., Leung, A. N., McNitt-Gray, M. F., Munden, R. F., Pipavath, S.
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- **Professionalism in radiology.** *Journal of thoracic imaging*

- Leung, A. N.
2014; 29 (5): 284-288
- **Prognostic importance of volumetric measurements in stage I lung adenocarcinoma.** *Radiology*
Yanagawa, M., Tanaka, Y., Leung, A. N., Morii, E., Kusumoto, M., Watanabe, S., Watanabe, H., Inoue, M., Okumura, M., Gyobu, T., Ueda, K., Honda, O., Sumikawa, et al
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 - **Ultra-low-dose CT of the Lung: Effect of Iterative Reconstruction Techniques on Image Quality.** *Academic radiology*
Yanagawa, M., Gyobu, T., Leung, A. N., Kawai, M., Kawata, Y., Sumikawa, H., Honda, O., Tomiyama, N.
2014; 21 (6): 695-703
 - **CT patterns of fungal pulmonary infections of the lung: Comparison of standard-dose and simulated low-dose CT (vol 81, pg 2860, 2012)** *EUROPEAN JOURNAL OF RADIOLOGY*
Christe, A., Lin, M. C., Yen, A. C., Hallett, R. L., Roychoudhury, K., Schmitzberger, F., Fleischmann, D., Leung, A. N., Rubin, G. D., Vock, P., Roos, J. E.
2013; 82 (11): 2067
 - **CT patterns of fungal pulmonary infections of the lung: Comparison of standard-dose and simulated low-dose CT** *EUROPEAN JOURNAL OF RADIOLOGY*
Christe, A., Lin, M. C., Yen, A. C., Hallett, R. L., Roychoudhury, K., Schmitzberger, F., Fleischmann, D., Leung, A. N., Rubin, G. D., Vock, P., Roos, J. E.
2012; 81 (10): 2860-2866
 - **Non-Small Cell Lung Cancer: Identifying Prognostic Imaging Biomarkers by Leveraging Public Gene Expression Microarray Data-Methods and Preliminary Results** *RADIOLOGY*
Gevaert, O., Xu, J., Hoang, C. D., Leung, A. N., Xu, Y., Quon, A., Rubin, D. L., Napel, S., Plevritis, S. K.
2012; 264 (2): 387-396
 - **Lung Cancer Screening** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Wood, D. E., Eapen, G. A., Ettinger, D. S., Hou, L., Jackman, D., Kazerooni, E., Klippenstein, D., Lackner, R. P., Leard, L., Leung, A. N., Massion, P. P., Meyers, B. F., Munden, et al
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 - **Integrating medical images and transcriptomic data in non-small cell lung cancer**
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 - **Case 166: Metastatic Left Pulmonary Artery Sarcoma** *RADIOLOGY*
Mitra, E. S., Iagaru, A. H., Leung, A. N.
2011; 258 (2): 645-648
 - **Yield of diagnostic procedures for invasive fungal infections in neutropenic febrile patients with chest computed tomography abnormalities** *MYCOSES*
Ho, D. Y., Lin, M., Schaenman, J., Rosso, F., Leung, A. N., Coutre, S. E., Sista, R. R., Montoya, J. G.
2011; 54 (1): 59-70
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 - **Epoprostenol-associated pneumonitis: Diagnostic use of a T-cell proliferation assay** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
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 - **Best Cases from the AFIP Fatal 2009 Influenza A (H1N1) Infection, Complicated by Acute Respiratory Distress Syndrome and Pulmonary Interstitial Emphysema** *RADIOGRAPHICS*
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- **Cystic Fibrosis HRCT Scores Correlate Strongly With Pseudomonas Infection** *PEDIATRIC PULMONOLOGY*
Robinson, T. E., Leung, A. N., Chen, X., Moss, R. B., Emond, M. J.
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- **Discordance rates between preliminary and final radiology reports on cross-sectional imaging studies at a level 1 trauma center** *ACADEMIC RADIOLOGY*
Stevens, K. J., Griffiths, K. L., Rosenberg, J., Mahadevan, S., Zatz, L. M., Leung, A. N.
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- **Primary interpretation of thoracic MDCT images using coronal reformations** *AMERICAN JOURNAL OF ROENTGENOLOGY*
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- **Recurrent lymphoma of the lung - Computed tomography appearance** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
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- **Chronic expanding hematoma: Mystery or misnomer? Reply** *AMERICAN JOURNAL OF ROENTGENOLOGY*
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- **Case 63: hepatopulmonary syndrome.** *Radiology*
Leung, A. N.
2003; 229 (1): 64-67
- **Invasive aspergillosis in the setting of cardiac transplantation** *37th Annual Meeting of the Infectious-Diseases-Society-of-America*
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- **Composite spirometric-computed tomography outcome measure in early cystic fibrosis lung disease** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Robinson, T. E., Leung, A. N., Northway, W. H., Blankenberg, F. G., Chan, F. P., Bloch, D. A., Holmes, T. H., Moss, R. B.
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- **Chronic expanding hematoma of the thorax** *AMERICAN JOURNAL OF ROENTGENOLOGY*
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- **Using a dedicated lung-marker system for localization of pulmonary nodules before thoracoscopic surgery** *AMERICAN JOURNAL OF ROENTGENOLOGY*
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- **Fast tomosynthesis for lung cancer detection using the SBDX geometry** *Medical Imaging 2003 Conference*
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- **Bronchogenic carcinoma after lung transplantation: Frequency, clinical characteristics, and imaging findings** *RADIOLOGY*
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- **Primary bronchogenic carcinoma after heart or lung transplantation: Radiologic and clinical findings** *JOURNAL OF THORACIC IMAGING*
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- **Standardized high-resolution CT of the lung using a spirometer-triggered electron beam CT scanner** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Robinson, T. E., Leung, A. N., Moss, R. B., Blankenberg, F. G., Al-Dabbagh, H., Northway, W. H.
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Robinson, T. E., Leung, A. N., Moss, R. B., Blankenberg, F. G., Bloch, D. A., Oehlert, J. W., Al-Dabbagh, H., Hubli, S., Northway, W. H.
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Leung, A. N.
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- **Chronic pulmonary coccidioidomycosis: computed tomographic and pathologic findings in 18 patients** *CANADIAN ASSOCIATION OF RADIOLOGISTS JOURNAL-JOURNAL DE L ASSOCIATION CANADIENNE DES RADIOLOGISTES*
Kim, K. I., Leung, A. N., Flint, J. D., Muller, N. L.
1998; 49 (6): 401-407
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