



Ronald Witteles

Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Heart Failure Program CV Medicine**

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Bio

BIO

Dr. Ronald Witteles is a Cardiologist who specializes in the treatment of patients with Heart Failure. He has particular expertise in the treatment of Amyloidosis, Sarcoidosis, and cardiac complications of cancer therapy (sometimes called "CardioOncology"). He serves as Co-Director of the Stanford Amyloid Center, one of the world's leading centers for the care of patients with amyloidosis, and serves as Co-Director of the Stanford Multidisciplinary Sarcoidosis Program. He is an Associate Editor for JACC: CardioOncology, the world's leading journal dedicated to the field of CardioOncology. Dr. Witteles has published extensively in his areas of expertise, and has won many awards for his excellence in both patient care and education.

Dr. Witteles serves as Program Director for the Stanford Internal Medicine residency program -- directly supervising the training of more than 140 physicians each year. He was recognized by Stanford in 2020 with the award for 'Program Director of the Year'. He holds board certification in Internal Medicine, Cardiovascular Disease, and Advanced Heart Failure/Transplant Cardiology.

CLINICAL FOCUS

- Amyloidosis
- CardioOncology (cardiac complications of cancer therapy)
- Sarcoidosis
- Heart Failure
- Advanced Heart Failure and Transplant Cardiology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Program Director, Internal Medicine Residency Training Program, (2011- present)

- Co-Director, Stanford Amyloid Center, (2008- present)
- Co-Director, Stanford Multidisciplinary Sarcoidosis Program, (2019- present)
- Sr. Associate Program Director, Internal Medicine Residency Training Program, (2009-2011)
- Associate Director, Coronary Care Unit (CCU), (2008-2009)

HONORS AND AWARDS

- Calvin Fentress Research Fellowship, University of Chicago Pritzker School of Medicine (1999)
- M.D. with Honors (highest distinction by U. of Chicago), University of Chicago Pritzker School of Medicine (2000)
- Francis G. Ebaugh, Jr. Research Award, Stanford University Dept. of Internal Medicine (2001, 2002, 2003)
- Outstanding Clinical Teaching Award, Stanford University Dept. of Internal Medicine (2002, 2003)
- Charles Dorsey Armstrong Clinical Excellence Award, Stanford University Dept. of Internal Medicine (2003)
- National Associates' Research Award, American College of Physicians/American Society of Internal Medicine (2004)
- First Author - Selected as one of 10 most important heart failure articles in 2004, Journal of the American College of Cardiology (2005)
- National Research Fellowship Award, Heart Failure Society of America (2006)
- Clinical Excellence Award, Stanford University Division of Cardiovascular Medicine (2006)
- Timothy F. Beckett, Jr. Award for Excellence in Teaching by a Medicine Fellow, Stanford Univ. Dept. of Internal Medicine (2006)
- Clinical Research Award, Stanford Univ. Division of Cardiovascular Medicine (2007)
- First Author - Selected as one of 15 most important heart failure articles in 2007, Journal of the American College of Cardiology (2008)
- David W. Rytand Award for Excellence in Clinical Teaching by a Department of Medicine faculty member, Stanford University Department of Internal Medicine (2009, 2010)

PROFESSIONAL EDUCATION

- Board Certification: Advanced Heart Failure and Transplant Cardiology, American Board of Internal Medicine (2012)
- Fellowship: Stanford University School of Medicine (2007) CA
- Residency: Stanford University School of Medicine (2004) CA
- Residency: Stanford University School of Medicine (2003) CA
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2007)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2003)
- Chief Resident, Stanford University , Internal Medicine (2004)
- Internship: Stanford University School of Medicine (2001) CA
- M.D. with Honors, University of Chicago , Medicine (2000)
- B.A., Northwestern University , Biology/Neuroscience (1996)
- F.A.C.P., American College of Physicians , Internal Medicine (2010)
- F.A.C.C., American College of Cardiology , Cardiology (2008)
- Chief Fellow, Stanford University , Cardiovascular Medicine (2007)
- Medical Education: University of Chicago Pritzker (2000) IL

LINKS

- Internal Medicine Residency Training Program: <http://medicine.stanford.edu/education/residency.html>
- Stanford Amyloid Center: <http://med.stanford.edu/amyloidcenter.html>
- Stanford Multidisciplinary Sarcoidosis Program: <http://med.stanford.edu/sarcoidosis.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Witteles' research focuses on three major areas:

1) Amyloidosis -- As Co-Director of the Stanford Amyloid Center, Dr. Witteles works with a team of investigators to explore novel therapies for amyloidosis and to better understand the mechanisms underlying the disease. This work ranges from clinical trials for multiple types of amyloidosis (AL, ATTR), to defining the role of organ transplantation and pacemakers/defibrillators, to partnering with basic science labs to explore basic principles of pathogenesis.

2) CardioOncology (Cardiac toxicity of cancer therapies) -- Studying optimal prevention and treatment strategies for patients who develop heart failure and other cardiac toxicity as a consequence of cancer therapies, as well as studies to better understand the mechanisms/patterns of toxicity for multiple chemotherapeutic agents. Dr. Witteles serves as Associate Editor for JACC: CardioOncology, the world's leading journal devoted to the field.

3) Sarcoidosis -- As Co-Director of the Stanford Multidisciplinary Sarcoidosis Program, Dr. Witteles studies novel diagnostic modalities to improve the accuracy of disease diagnosis and the ability to follow responses to treatment of the disease, partners with laboratories to understand the pathogenesis of the disease, and studies new treatments for the disease.

CLINICAL TRIALS

- Daratumumab-SC for Highly Sensitized Patients Awaiting Heart Transplantation, Not Recruiting
- Open-Label Study of AG10 in Patients With Cardiomyopathy, Not Recruiting
- Safety and Efficacy of Tafamidis in Patients With Transthyretin Cardiomyopathy, Not Recruiting
- Study of Daratumumab for Decreasing Circulating Antibodies in Sensitized Patients Awaiting Heart Transplantation, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiovascular Medicine (Fellowship Program)
- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Avoiding Catastrophe: Understanding Free Light Chain Testing in the Evaluation of ATTR Amyloidosis.** *Circulation. Heart failure*
Witteles, R. M., Liedtke, M.
2021: CIRCHEARTFAILURE120008225
- **Global Longitudinal Strain in Cardio-Oncology.** *Journal of the American College of Cardiology*
Moslehi, J. J., Witteles, R. M.
2021; 77 (4): 402-4
- **Efficacy and safety of tafamidis doses in the Tafamidis in Transthyretin Cardiomyopathy Clinical Trial (ATTR-ACT) and long-term extension study.** *European journal of heart failure*
Damy, T., Garcia-Pavia, P., Hanna, M., Judge, D. P., Merlini, G., Gundapaneni, B., Patterson, T. A., Riley, S., Schwartz, J. H., Sultan, M. B., Witteles, R.
2020
- **AL Amyloidosis for the Cardiologist and Oncologist Epidemiology, Diagnosis, and Management** *JACC: CARDIOONCOLOGY*
Witteles, R. M., Liedtke, M.

2019; 1 (1): 117–30

- **Increase in Blood Pressure Associated With Tyrosine Kinase Inhibitors Targeting Vascular Endothelial Growth Factor** *JACC: CARDIOONCOLOGY*
Waliyany, S., Sainani, K. L., Park, L. S., Zhang, C., Srinivas, S., Witteles, R. M.
2019; 1 (1): 24–36
- **Screening for Transthyretin Amyloid Cardiomyopathy in Everyday Practice.** *JACC. Heart failure*
Witteles, R. M., Bokhari, S., Damy, T., Elliott, P. M., Falk, R. H., Fine, N. M., Gospodinova, M., Obici, L., Rapezzi, C., Garcia-Pavia, P.
2019
- **Serial Cardiac FDG-PET for the Diagnosis and Therapeutic Guidance of Patients With Cardiac Sarcoidosis** *JOURNAL OF CARDIAC FAILURE*
Ning, N., Guo, H., Iagaru, A., Mitra, E., Fowler, M., Witteles, R.
2019; 25 (4): 307–11
- **Expert Consensus Recommendations for the Suspicion and Diagnosis of Transthyretin Cardiac Amyloidosis.** *Circulation. Heart failure*
Maurer, M. S., Bokhari, S. n., Damy, T. n., Dorbala, S. n., Drachman, B. M., Fontana, M. n., Grogan, M. n., Kristen, A. V., Lousada, I. n., Nativi-Nicolau, J. n., Cristina Quarta, C. n., Rapezzi, C. n., Ruberg, et al
2019; 12 (9): e006075
- **A Changing Landscape of Mortality for Systemic Light Chain Amyloidosis.** *JACC. Heart failure*
Barrett, C. D., Dobos, K. n., Liedtke, M. n., Tuzovic, M. n., Haddad, F. n., Kobayashi, Y. n., Lafayette, R. n., Fowler, M. B., Arai, S. n., Schrier, S. n., Witteles, R. M.
2019
- **Tafamidis Treatment for Patients with Transthyretin Amyloid Cardiomyopathy** *NEW ENGLAND JOURNAL OF MEDICINE*
Maurer, M. S., Schwartz, J. H., Gundapaneni, B., Elliott, P. M., Merlini, G., Waddington-Cruz, M., Kristen, A. V., Grogan, M., Witteles, R., Damy, T., Drachman, B. M., Shah, S. J., Hanna, et al
2018; 379 (11): 1007–16
- **The State of Medical Student Performance Evaluations: Improved Transparency or Continued Obfuscation?** *Academic medicine*
Hom, J., Richman, I., Hall, P., Ahuja, N., Harman, S., Harrington, R., Witteles, R.
2016; 91 (11): 1534-1539
- **Changing outcomes after heart transplantation in patients with amyloid cardiomyopathy** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Davis, M. K., Lee, P. H., Witteles, R. M.
2015; 34 (5): 658-666
- **Outcomes after heart transplantation for amyloid cardiomyopathy in the modern era.** *American journal of transplantation*
Davis, M. K., Kale, P., Liedtke, M., Schrier, S., Arai, S., Wheeler, M., Lafayette, R., Coakley, T., Witteles, R. M.
2015; 15 (3): 650-658
- **Implantable cardioverter-defibrillator placement in patients with cardiac amyloidosis** *HEART RHYTHM*
Varr, B. C., Zarafshar, S., Coakley, T., Liedtke, M., Lafayette, R. A., Arai, S., Schrier, S. L., Witteles, R. M.
2014; 11 (1): 158-162
- **Variation in Use of Left Ventriculography in the Veterans Affairs Health Care System** *CIRCULATION-CARDIOVASCULAR QUALITY AND OUTCOMES*
Heidenreich, P. A., Lin, S., Knowles, J. W., Perez, M., Maddox, T. M., Ho, M. P., Rumsfeld, J. S., Sahay, A., Massie, B. M., Tsai, T. T., Witteles, R. M.
2013; 6 (6): 687-693
- **Underestimating Cardiac Toxicity in Cancer Trials: Lessons Learned?** *JOURNAL OF CLINICAL ONCOLOGY*
Witteles, R. M., Telli, M.
2012; 30 (16): 1916-1918
- **Use and overuse of left ventriculography** *AMERICAN HEART JOURNAL*
Witteles, R. M., Knowles, J. W., Perez, M., Morris, W. M., Spettell, C. M., Brennan, T. A., Heidenreich, P. A.
2012; 163 (4): 617-?
- **Heart transplantation and cardiac amyloidosis: Approach to screening and novel management strategies** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Varr, B. C., Liedtke, M., Arai, S., Lafayette, R. A., Schrier, S. L., Witteles, R. M.
2012; 31 (3): 325-331

- **Chemotherapy-Associated Cardiotoxicity: How Often Does it Really Occur and How Can it Be Prevented?** *HEART FAILURE CLINICS*
Witteles, R. M., Fowler, M. B., Telli, M. L.
2011; 7 (3): 333-?
- **Radiation Therapy for Breast Cancer Buyer Beware** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Witteles, R. M.
2011; 57 (4): 453-454
- **Left Ventricular Dysfunction in Patients Receiving Cardiotoxic Cancer Therapies Are Clinicians Responding Optimally?** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Yoon, G. J., Telli, M. L., Kao, D. P., Matsuda, K. Y., Carlson, R. W., Witteles, R. M.
2010; 56 (20): 1644-1650
- **Heart Failure in Hispanics** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Vivo, R. P., Krim, S. R., Cevik, C., Witteles, R. M.
2009; 53 (14): 1167-1175
- **Clinical problem-solving. Fool's Gold.** *New England journal of medicine*
Leeper, N. J., Dhaliwal, G., Saint, S., Witteles, R. M.
2008; 359 (19): 2035-2041
- **Insulin-resistant cardiomyopathy** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Witteles, R. M., Fowler, M. B.
2008; 51 (2): 93-102
- **Impact of nesiritide on renal function in patients with acute decompensated failure an pre-existing renal dysfunction - A randomized, double-blind, placebo-controlled clinical trial** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Witteles, R. M., Kao, D., Christopherson, D., Matsuda, K., Vagelos, R. H., Schreiber, D., Fowler, M. B.
2007; 50 (19): 1835-1840
- **Cardiomyopathy of insulin resistance.** *Heart failure clinics*
Witteles, R. M., Fowler, M. B.
2006; 2 (1): 13-23
- **Insulin resistance in idiopathic dilated cardiomyopathy - A possible etiologic link** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Witteles, R. M., Tang, W. H., Jamali, A. H., Chu, J. W., Reaven, G. M., Fowler, M. B.
2004; 44 (1): 78-81
- **Osimertinib-Associated Cardiomyopathy In Patients With Non-Small Cell Lung Cancer: A Case Series** *JACC: CardioOncology*
Franquiz, M., Waliiany, S., Xu, A., Hnatiuk, A., Wu, S., Cheng, P., Wakelee, H., Neal, J., Witteles, R., Zhu, H.
2023; 839-841
- **Immunotherapy-Associated Atherosclerosis: A Comprehensive Review of Recent Findings and Implications for Future Research** *Current Treatment Options in Cardiovascular Medicine*
Chan, A., Torelli, S., Cheng, E., Batchelder, R., Waliiany, S., Neal, J., Witteles, R., Nguyen, P., Cheng, P., Zhu, H.
2023
- **Constrictive Pericarditis Revealing Rare Case of ALH Amyloidosis With Underlying Lymphoplasmacytic Lymphoma (Waldenstrom Macroglobulinemia).** *JACC. Case reports*
Ho, V. V., O'Sullivan, J. W., Collins, W. J., Ozdalga, E., Bell, C. F., Shah, N. D., Krishnam, M. S., Ozawa, M. G., Witteles, R. M.
2022; 4 (5): 271-275
- **High-Throughput Precision Phenotyping of Left Ventricular Hypertrophy With Cardiovascular Deep Learning.** *JAMA cardiology*
Duffy, G., Cheng, P. P., Yuan, N., He, B., Kwan, A. C., Shun-Shin, M. J., Alexander, K. M., Ebinger, J., Lungren, M. P., Rader, F., Liang, D. H., Schnittger, I., Ashley, et al
2022
- **Developing Therapy for Transthyretin Amyloidosis.** *The American journal of medicine*
Campbell, C. M., Zhang, K., Lenihan, D. J., Witteles, R.
1800

- **The Role of Single-Cell Profiling and Deep Immunophenotyping in Understanding Immune Therapy Cardiotoxicity** *JACC: CardioOncology*
Huang, Y. V., Waliyany, S., Lee, D., Galdos, F. X., Witteles, R. M., Neal, J. W., Fan, A. C., Maecker, H. T., Nguyen, P. K., Wu, S. M., Zhu, H.
2022; 4 (5): 629–634
- **Ibrutinib-associated atrial fibrillation treatment with catheter ablation.** *HeartRhythm case reports*
Kapoor, R., Fazal, M., Cheng, P., Witteles, R., Rhee, J., Baykaner, T.
2021; 7 (11): 713-716
- **Misconceptions and Facts About Cardiac Amyloidosis.** *The American journal of cardiology*
Nguyen, F. D., Rodriguez Rivera, M., Krittanawong, C., Witteles, R., Lenihan, D. J.
2021
- **Graded renal response criteria and revised renal progression criteria for light chain (AL) amyloidosis**
Muchtar, E., Wisniowski, B., Palladini, G., Milani, P., Merlini, G., Schonland, S., Veelkan, K., Hegenbart, U., Dispenzieri, A., Kumar, S., Leung, N., Kastritis, E., Dimopoulos, et al
CIG MEDIA GROUP, LP.2021: S23-S24
- **Graded cardiac response criteria for AL amyloidosis: the impact of depth of cardiac response on survival**
Muchtar, E. Y., Dispenzieri, A., Wisniowski, B., Palladini, G., Milani, P., Merlini, G., Schonland, S., Veelkan, K., Hegenbart, U., Kumar, S., Kastritis, E., Dimopoulos, M., Liedtke, et al
CIG MEDIA GROUP, LP.2021: S24-S25
- **Pharmacovigilance analysis of cardiac toxicities associated with targeted therapies for metastatic non-small cell lung carcinoma.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Waliyany, S., Zhu, H., Wakelee, H., Padda, S. K., Das, M., Ramchandran, K., Myall, N. J., Chen, T., Witteles, R. M., Neal, J. W.
2021
- **Corrigendum to 'TNF-alpha Inhibition for the Treatment of Cardiac Sarcoidosis' Seminars in Arthritis and Rheumatism. 2020 Jun;50(3):546-552.** *Seminars in arthritis and rheumatism*
Baker, M. C., Sheth, K., Witteles, R., Genovese, M. C., Shoor, S., Simard, J. F.
2021
- **Racial and Ethnic Disparities in Cardio-Oncology A Call to Action** *JACC: CARDIOONCOLOGY*
Fazal, M., Malisa, J., Rhee, J., Witteles, R. M., Rodriguez, F.
2021; 3 (2): 201-204
- **Racial and Ethnic Disparities in Transthyretin Cardiac Amyloidosis.** *Current cardiovascular risk reports*
Spencer-Bonilla, G., Njoroge, J. N., Pearson, K., Witteles, R. M., Aras, M. A., Alexander, K. M.
2021; 15 (6)
- **Racial and Ethnic Disparities in Cardio-Oncology: A Call to Action.** *JACC. CardioOncology*
Fazal, M., Malisa, J., Rhee, J. W., Witteles, R. M., Rodriguez, F.
2021; 3 (2): 201-204
- **Myocarditis Surveillance with High-Sensitivity Troponin I During Cancer Treatment with Immune Checkpoint Inhibitors.** *JACC. CardioOncology*
Waliyany, S., Neal, J. W., Reddy, S., Wakelee, H., Shah, S. A., Srinivas, S., Padda, S. K., Fan, A. C., Colevas, A. D., Wu, S. M., Witteles, R. M., Zhu, H.
2021; 3 (1): 137–39
- **Racial and Ethnic Disparities in Transthyretin Cardiac Amyloidosis** *Curr Cardiovasc Risk Rep*
Spencer-Bonilla, G., Njoroge, J. N., Pearson, K., Witteles, R. M., Aras, M. A., Alexander, K. M.
2021
- **Arrhythmia Patterns in Patients on Ibrutinib.** *Frontiers in cardiovascular medicine*
Fazal, M., Kapoor, R., Cheng, P., Rogers, A. J., Narayan, S. M., Wang, P., Witteles, R. M., Perino, A. C., Baykaner, T., Rhee, J.
1800; 8: 792310
- **Cardiac Transplantation and Mechanical Circulatory Support in Amyloidosis.** *JACC. CardioOncology*
Witteles, R. M.
2021; 3 (4): 516-521

- **Temporal Trends of Wild-Type Transthyretin Amyloid Cardiomyopathy in the Transthyretin Amyloidosis Outcomes Survey.** *JACC. CardioOncology*
Nativi-Nicolau, J., Siu, A., Dispenzieri, A., Maurer, M. S., Rapezzi, C., Kristen, A. V., Garcia-Pavia, P., LoRusso, S., Waddington-Cruz, M., Lairez, O., Witteles, R., Chapman, D., Amass, et al
2021; 3 (4): 537-546
- **Mitochondria-Rich Extracellular Vesicles Rescue Patient-Specific Cardiomyocytes From Doxorubicin Injury: Insights Into the SENECA Trial.** *JACC. CardioOncology*
O'Brien, C. G., Ozen, M. O., Ikeda, G., Vaskova, E., Jung, J. H., Bayardo, N., Santoso, M. R., Shi, L., Wahlquist, C., Jiang, Z., Jung, Y., Zeng, Y., Egan, et al
2021; 3 (3): 428-440
- **Functional Capacity, Health-related Quality-of-life and Cardiac Biomarker Improvement with Tafamidis in the Tafamidis in Transthyretin Cardiomyopathy Clinical Trial (ATTR-ACT)**
Hanna, M., Fine, N., Stewart, M., Gundapaneni, B., Sultan, M. B., Witteles, R.
CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2020: S65
- **Temporal Trends of Wild-type Attr Amyloidosis in the Transthyretin Amyloidosis Outcomes Survey**
Nativi-Nicolau, J., Siu, A., Dispenzieri, A., Maurer, M. S., Rapezzi, C., Kristen, A., Garcia-Pavia, P., LoRusso, S., Waddington-Cruz, M., Lairez, O., Witteles, R., Chapman, D., Rill, et al
CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS.2020: S82
- **REPLY: Should We Be for ASCT? If Yes, Then When?** *JACC-HEART FAILURE*
Witteles, R. M., Barrett, C. D.
2020; 8 (8): 696-97
- **Immune Profiling and Causal Antigen Discovery in Mouse and Human Models of Immune Checkpoint Inhibitor-induced Myocarditis**
Zhu, H., Lee, D., Sarah, W., Galdos, F. X., D'Addabbo, J., Fowler, M. B., Reddy, S., Heather, W., Neal, J. W., Witteles, R., Maecker, H. T., Davis, M., Nguyen, et al
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Cardiac Scintigraphy With Technetium-99m-Labeled Bone-Seeking Tracers for Suspected Amyloidosis: JACC Review Topic of the Week.** *Journal of the American College of Cardiology*
Hanna, M., Ruberg, F. L., Maurer, M. S., Dispenzieri, A., Dorbala, S., Falk, R. H., Hoffman, J., Jaber, W., Soman, P., Witteles, R. M., Grogan, M.
2020; 75 (22): 2851-62
- **Cardiac Scintigraphy With Technetium-99m-Labeled Bone -Seeking Tracers for Suspected Amyloidosis JACC Review Topic of the Week** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Hanna, M., Ruberg, F. L., Maurer, M. S., Dispenzieri, A., Dorbala, S., Falk, R. H., Hoffman, J., Jaber, W., Soman, P., Witteles, R. M., Grogan, M.
2020; 75 (22): 2851-62
- **Correction to: Cardiovascular Complications in Patients with COVID-19: Consequences of Viral Toxicities and Host Immune Response.** *Current cardiology reports*
Zhu, H., Rhee, J., Cheng, P., Waliyan, S., Chang, A., Witteles, R. M., Maecker, H., Davis, M. M., Nguyen, P. K., Wu, S. M.
2020; 22 (5): 36
- **A pilot study of F-18-FSPG SiPM-based PET/CT in patients referred for exclusion of active cardiac sarcoidosis and negative or non-diagnostic F-18-FDG PET/CT**
Duan, H., Hatami, N., Baratto, L., Davidzon, G., Aparici, C., Gambhir, S., Koglin, N., Witteles, R., Iagaru, A.
SOC NUCLEAR MEDICINE INC.2020
- **Portable Ultrasound Device Usage and Learning Outcomes Among Internal Medicine Trainees: A Parallel-Group Randomized Trial.** *Journal of hospital medicine*
Kumar, A., Weng, Y., Wang, L., Bentley, J., Almlı, M., Hom, J., Witteles, R., Ahuja, N., Kugler, J.
2020; 15 (2): e1-e6
- **Bone Scintigraphy Imaging for Transthyretin Cardiac Amyloidosis: Still Much to Learn.** *JACC. Cardiovascular imaging*
Alexander, K. M., Witteles, R. M.
2020
- **Organ responses with daratumumab therapy in previously treated AL amyloidosis.** *Blood advances*
Chung, A. n., Kaufman, G. P., Sidana, S. n., Eckhert, E. n., Schrier, S. L., Lafayette, R. A., Arai, S. n., Witteles, R. M., Liedtke, M. n.
2020; 4 (3): 458-66

- **Letter regarding the article 'Efficacy and safety of tafamidis doses in the Tafamidis in Transthyretin Cardiomyopathy Clinical Trial (ATTR-ACT) and long-term extension study'. *European journal of heart failure***
Damy, T. n., Sultan, M. B., Witteles, R. n.
2020
- **Avoiding misdiagnosis: expert consensus recommendations for the suspicion and diagnosis of transthyretin amyloidosis for the general practitioner. *BMC family practice***
Gertz, M. n., Adams, D. n., Ando, Y. n., Beirão, J. M., Bokhari, S. n., Coelho, T. n., Comenzo, R. L., Damy, T. n., Dorbala, S. n., Drachman, B. M., Fontana, M. n., Gillmore, J. D., Grogan, et al
2020; 21 (1): 198
- **Immune Checkpoint Inhibitor Cardiotoxicity: Understanding Basic Mechanisms and Clinical Characteristics and Finding a Cure. *Annual review of pharmacology and toxicology***
Waliany, S. n., Lee, D. n., Witteles, R. M., Neal, J. W., Nguyen, P. n., Davis, M. M., Salem, J. E., Wu, S. M., Moslehi, J. J., Zhu, H. n.
2020
- **Baseline cardiovascular risk assessment in cancer patients scheduled to receive cardiotoxic cancer therapies: a Position Statement and new risk assessment tools from the Cardio-Oncology Study Group of the Heart Failure Association of the European Society of Cardiology in collaboration with the International Cardio-Oncology Society. *European journal of heart failure***
Lyon, A. R., Dent, S. n., Stanway, S. n., Earl, H. n., Brezden-Masley, C. n., Cohen-Solal, A. n., Tocchetti, C. G., Moslehi, J. n., Groarke, J. D., Bergler-Klein, J. n., Khoo, V. n., Tan, L. L., Anker, et al
2020
- **Outcomes in Patients With Cardiac Amyloidosis Undergoing Heart Transplantation. *JACC. Heart failure***
Barrett, C. D., Alexander, K. M., Zhao, H. n., Haddad, F. n., Cheng, P. n., Liao, R. n., Wheeler, M. T., Liedtke, M. n., Schrier, S. n., Arai, S. n., Weisshaar, D. n., Witteles, R. M.
2020
- **Cardiovascular Risks in Patients with COVID-19: Potential Mechanisms and Areas of Uncertainty. *Current cardiology reports***
Cheng, P. n., Zhu, H. n., Witteles, R. M., Wu, J. C., Quertermous, T. n., Wu, S. M., Rhee, J. W.
2020; 22 (5): 34
- **Cardiovascular Complications in Patients with COVID-19: Consequences of Viral Toxicities and Host Immune Response *Curr Cardiol Rep***
Zhu, H., Rhee, J., Cheng, P., Waliany, S., Chang, A., Witteles, R. M., Maecker, H., Davis, M. M., Nguyen, P. K., Wu, S. M.
2020; 22 (5)
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