



Sumaira Z. Aasi, MD

Clinical Professor, Dermatology

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Dermatology - North Campus**

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ACADEMIC CONTACT INFORMATION

- **Academic Office**

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Bio

BIO

Sumaira Z. Aasi, M.D., is a Professor of Dermatology and Director of Mohs and Dermatologic Surgery. Dr. Aasi completed a fellowship in Mohs micrographic surgery and cutaneous oncology at Yale University where she was on faculty and served as Associate Chief. Dr. Aasi helped train fellows in Mohs and Micrographic Surgery for over ten years. She has served on the Board of Directors of the American College of Mohs Surgery. Her clinical interests include management of high risk nonmelanoma skin cancers, Mohs histopathology, and reconstructive surgery.

CLINICAL FOCUS

- Cancer > Cutaneous (Dermatologic) Oncology
- Dermatologic Surgery
- Mohs Micrographic Surgery
- Melanoma and Skin Cancer
- Skin oncology in transplant patients
- Laser Surgery
- Dermatology

ACADEMIC APPOINTMENTS

- Clinical Professor, Dermatology

HONORS AND AWARDS

- Distinguished Service Award, American College of Mohs Surgery (2013)
- Connecticut Magazine Top Doctors, Connecticut Magazine (2011)
- Connecticut Magazine Top Doctors, Connecticut Magazine (2010)
- Connecticut Magazine Top Doctors, Connecticut Magazine (2009)
- Connecticut Magazine Top Doctors, Connecticut Magazine (2008)

- Connecticut Magazine Top Doctors, Connecticut Magazine (2007)
- Connecticut Magazine Top Doctors, Connecticut Magazine (2006)
- Cutting Edge Research Grant Award, American Society of Dermatologic Surgery` (2003)

PROFESSIONAL EDUCATION

- Fellowship: Yale Micrographic and Dermatologic Fellowship (2002) CT
- Residency: Northwestern University Dermatology Residency (2001) IL
- Internship: University of Chicago Medical Center Internal Medicine Residency (1998) IL
- Board Certification: Dermatology, American Board of Dermatology (2001)
- Medical Education: Northwestern University Feinberg School of Medicine (1997) IL

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

High risk squamous cell carcinoma; frozen histopathology; reconstructive surgery.

CLINICAL TRIALS

- A Study of Vismodegib With Surgery in Participants With Previously Untreated Basal Cell Carcinoma, Not Recruiting
- Analysis of Cutaneous and Hematologic Disorders by High-Throughput Nucleic Acid Sequencing, Not Recruiting
- Vismodegib in Treating Patients With Basal Cell Carcinoma (BCC), Not Recruiting

Publications

PUBLICATIONS

- **Atypical Fibroxanthoma and Pleomorphic Dermal Sarcoma Updates on Classification and Management** *DERMATOLOGIC CLINICS*
Soleymani, T., Aasi, S. Z., Novoa, R., Hollmig, S.
2019; 37 (3): 253-+
- **Atypical Fibroxanthoma and Pleomorphic Dermal Sarcoma: Updates on Classification and Management.** *Dermatologic clinics*
Soleymani, T., Aasi, S. Z., Novoa, R., Hollmig, S. T.
2019; 37 (3): 253-59
- **Dissecting intratumoral heterogeneity and microenvironment interactions in SCC through single-cell RNA-sequencing**
Ji, A., Rubin, A., Reynolds, D., Guo, M., Bhaduri, A., George, B., Hollmig, S., Aasi, S., Khavari, P.
ELSEVIER SCIENCE INC.2019: S24
- **An open-label phase 2 clinical trial of topical retinostat gel for basal cell carcinoma**
Urman, N., Eichstadt, S., Do, H., Mirza, A. N., Li, S., Oro, A., Aasi, S., Sarin, K. Y.
ELSEVIER SCIENCE INC.2019: S171
- **Dissecting the keratinocyte lineage of basal cell carcinoma using single cell RNA sequencing**
Lee, G., Guerrero-Juarez, C. F., Do, H., Aasi, S., Nie, Q., Sarin, K. Y., Atwood, S.
ELSEVIER SCIENCE INC.2019: S27
- **LAP2 Proteins Chaperone GLI1 Movement between the Lamina and Chromatin to Regulate Transcription** *CELL*
Mirza, A. N., McKellar, S. A., Urman, N. M., Brown, A. S., Hollmig, T., Aasi, S. Z., Oro, A. E.
2019; 176 (1-2): 198-+
- **Corrigendum to 'Clinical perineural invasion of cutaneous head and neck cancer: Impact of radiotherapy, imaging, and nerve growth factor receptors on symptom control and prognosis'. [Oral Oncol. 85 (2018) 60-67].** *Oral oncology*
Chen, J. J., Harris, J. P., Kong, C. S., Sunwoo, J. B., Divi, V., Horst, K. C., Aasi, S. Z., Hollmig, S. T., Hara, W. Y.
2019

- **PD-L1 Expression and Tumor-Infiltrating Lymphocytes in High-Risk and Metastatic Cutaneous Squamous Cell Carcinoma** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Amoils, M., Kim, J., Lee, C., Sunwoo, J. B., Colevas, A., Aasi, S. Z., Hollmig, S., Ma, Y., Divi, V.
2019; 160 (1): 93–99
- **LAP2 Proteins Chaperone GLII Movement between the Lamina and Chromatin to Regulate Transcription.** *Cell*
Mirza, A. N., McKellar, S. A., Urman, N. M., Brown, A. S., Hollmig, T., Aasi, S. Z., Oro, A. E.
2018
- **Clinical perineural invasion of cutaneous head and neck cancer: Impact of radiotherapy, imaging, and nerve growth factor receptors on symptom control and prognosis.** *Oral oncology*
Chen, J. J., Harris, J. P., Kong, C. S., Sunwoo, J. B., Divi, V., Horst, K. C., Aasi, S. Z., Hollmig, S. T., Hara, W. Y.
2018; 85: 60–67
- **Clinical perineural invasion of cutaneous head and neck cancer: Impact of radiotherapy, imaging, and nerve growth factor receptors on symptom control and prognosis** *ORAL ONCOLOGY*
Chen, J., Harris, J. P., Kong, C. S., Sunwoo, J. B., Divi, V., Horst, K. C., Aasi, S. Z., Hollmig, S., Hara, W. Y.
2018; 85: 60–67
- **Frequent basal cell cancer development is a clinical marker for inherited cancer susceptibility** *JCI INSIGHT*
Cho, H. G., Kuo, K. Y., Li, S., Bailey, I., Aasi, S., Chang, A. S., Oro, A. E., Tang, J. Y., Sarin, K. Y.
2018; 3 (15)
- **PD-L1 Expression and Tumor-Infiltrating Lymphocytes in High-Risk and Metastatic Cutaneous Squamous Cell Carcinoma.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Amoils, M., Kim, J., Lee, C., Sunwoo, J. B., Colevas, A. D., Aasi, S. Z., Hollmig, S. T., Ma, Y., Divi, A. V.
2018: 194599818788057
- **Distinguishing malignant from benign microscopic skin lesions using desorption electrospray ionization mass spectrometry imaging** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Margulis, K., Chiou, A. S., Aasi, S. Z., Tibshirani, R. J., Tang, J. Y., Zare, R. N.
2018; 115 (25): 6347–52
- **Merkel Cell Carcinoma, Version 1.2018 Clinical Practice Guidelines in Oncology** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Bichakjian, C. K., Olencki, T., Aasi, S. Z., Alam, M., Andersen, J. S., Blitzblau, R., Bowen, G. M., Contreras, C. M., Daniels, G. A., Decker, R., Farma, J. M., Fisher, K., Gastman, et al
2018; 16 (6): 742–74
- **MRTF inhibition displays promising therapeutic potential in human BCC patient explants**
Whitson, R. J., Mirza, A., Yao, C. Y., McKellar, S. A., Hollmig, S., Aasi, S., Sarin, K. Y., Tang, J., Oro, A. E.
ELSEVIER SCIENCE INC.2018: S36
- **Frequent basal cell cancer development is a clinical marker for inherited cancer susceptibility**
Cho, H., Kuo, K., Li, S., Bailey-Healy, I., Aasi, S., Chang, A., Oro, A. E., Epstein, E., Tang, J., Sarin, K. Y.
ELSEVIER SCIENCE INC.2018: S28
- **Single-cell RNA-sequencing reveals SCC intratumoral heterogeneity**
Ji, A., Rubin, A., Hollmig, S., Aasi, S., Khavari, P.
ELSEVIER SCIENCE INC.2018: S31
- **Distinguishing malignant from benign microscopic skin lesions using desorption electrospray ionization mass spectrometry imaging.** *Proceedings of the National Academy of Sciences of the United States of America*
Margulis, K., Chiou, A. S., Aasi, S. Z., Tibshirani, R. J., Tang, J. Y., Zare, R. N.
2018
- **Noncanonical hedgehog pathway activation through SRF-MKL1 promotes drug resistance in basal cell carcinomas.** *Nature medicine*
Whitson, R. J., Lee, A., Urman, N. M., Mirza, A., Yao, C. Y., Brown, A. S., Li, J. R., Shankar, G., Fry, M. A., Atwood, S. X., Lee, E. Y., Hollmig, S. T., Aasi, et al
2018; 24 (3): 271–81
- **Node-positive cutaneous squamous cell carcinoma of the head and neck: Survival, high-risk features, and adjuvant chemoradiotherapy outcomes.** *Head & neck*

- Amoils, M., Lee, C. S., Sunwoo, J., Aasi, S. Z., Hara, W., Kim, J., Sirjani, D., Colevas, A. D., Chang, A. L., Divi, V.
2017
- **Combined inhibition of atypical PKC and histone deacetylase 1 is cooperative in basal cell carcinoma treatment.** *JCI insight*
Mirza, A. N., Fry, M. A., Urman, N. M., Atwood, S. X., Roffey, J., Ott, G. R., Chen, B., Lee, A., Brown, A. S., Aasi, S. Z., Hollmig, T., Ator, M. A., Dorsey, et al
2017; 2 (21)
 - **Classification of basal cell carcinoma in human skin using machine learning and quantitative features captured by polarization sensitive optical coherence tomography.** *Biomedical optics express*
Marvdashti, T., Duan, L., Aasi, S. Z., Tang, J. Y., Ellerbee Bowden, A. K.
2016; 7 (9): 3721-3735
 - **Classification of basal cell carcinoma in human skin using machine learning and quantitative features captured by polarization sensitive optical coherence tomography** *BIOMEDICAL OPTICS EXPRESS*
Marvdashti, T., Duan, L., Aasi, S. Z., Tang, J. Y., Bowden, A. K.
2016; 7 (9): 3721-3735
 - **Management of High-Risk Squamous Cell Carcinoma of the Skin.** *Current treatment options in oncology*
Fu, T., Aasi, S. Z., Hollmig, S. T.
2016; 17 (7): 34-?
 - **Update to an open-label clinical trial of vismodegib as neoadjuvant before surgery for high-risk basal cell carcinoma (BCC)** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
Kwon, G. P., Ally, M., Bailey-Healy, I., Oro, A. E., Kim, J., Chang, A., Aasi, S., Tang, J. Y.
2016; 75 (1): 213–15
 - **Basal Cell Skin Cancer, Version 1.2016** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Bichakjian, C. K., Olencki, T., Aasi, S. Z., Alam, M., Andersen, J. S., Berg, D., Bowen, G. M., Cheney, R. T., Daniels, G. A., Glass, L. F., Grekin, R. C., Grossman, K., Higgins, et al
2016; 14 (5): 574-596
 - **Skin Cancer Prevention and Treatment in Solid Organ Transplant Patients: A Survey of the International Transplant Skin Cancer Collaborative.** *Dermatologic surgery*
Wang, A., Chan, A., Aasi, S., Lee, C., Krathen, M.
2016; 42 (5): 682-683
 - **Regionally Metastatic Cutaneous Squamous Cell Carcinoma of the Head and Neck: Survival and High-Risk Features**
Amoils, M., Lee, C. S., Sunwoo, J., Aasi, S. Z., Hara, W., Kim, J., Sirjani, D., Colevas, A. D., Chang, A. S., Divi, V.
ELSEVIER SCIENCE INC.2016: 954
 - **Histopathologic assessment of depth of follicular invasion of squamous cell carcinoma (SCC) in situ (SCCis): Implications for treatment approach** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
Christensen, S. R., McNiff, J. M., Cool, A. J., Aasi, S. Z., Hanlon, A. M., Leffell, D. J.
2016; 74 (2): 356-362
 - **Histopathologic assessment of depth of follicular invasion of squamous cell carcinoma (SCC) in situ (SCCis): Implications for treatment approach.** *Journal of the American Academy of Dermatology*
Christensen, S. R., McNiff, J. M., Cool, A. J., Aasi, S. Z., Hanlon, A. M., Leffell, D. J.
2016; 74 (2): 356–62
 - **Two dimensional imaging of basal cell carcinoma using desorption electrospray ionization mass spectrometry (DESI-MS)**
Chiou, A. S., Eberlin, L. S., Planell-Mendez, I., Ransohoff, K. J., Tang, I. Y., Aasi, S. Z., Zare, R. N.
NATURE PUBLISHING GROUP.2015: S36
 - **FIRST REPORT OF ERBIUM LASER AS THE PREFERRED TREATMENT IN A COMPARISON OF FIVE MODALITIES FOR STEATOCYSTOMA MULTIPLEX**
Crispin, M., Ally, M., Hollmig, T., Aasi, S., Rahman, Z.
WILEY-BLACKWELL.2015: 51
 - **Towards automated detection of basal cell carcinoma from polarization sensitive optical coherence tomography images of human skin**
Marvdashti, T., Duan, L., Ransohoff, K. J., Aasi, S. Z., Tang, J. Y., Ellerbee, A. K., IEEE

IEEE.2015

- **An investigator-initiated open-label clinical trial of vismodegib as a neoadjuvant to surgery for high-risk basal cell carcinoma** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
Ally, M. S., Aasi, S., Wysong, A., Teng, C., Anderson, E., Bailey-Healy, I., Oro, A., Kim, J., Chang, A. L., Tang, J. Y.
2014; 71 (5): 904-U304
- **An investigator-initiated open-label clinical trial of vismodegib as a neoadjuvant to surgery for high-risk basal cell carcinoma.** *Journal of the American Academy of Dermatology*
Ally, M. S., Aasi, S., Wysong, A., Teng, C., Anderson, E., Bailey-Healy, I., Oro, A., Kim, J., Chang, A. L., Tang, J. Y.
2014; 71 (5): 904-911 e1
- **Recurrent point mutations in the kinetochore gene KNSTRN in cutaneous squamous cell carcinoma** *NATURE GENETICS*
Lee, C. S., Bhaduri, A., Mah, A., Johnson, W. L., Ungewickell, A., Aros, C. J., Nguyen, C. B., Rios, E. J., Siprashvili, Z., Straight, A., Kim, J., Aasi, S. Z., Khavari, et al
2014; 46 (10): 1060-1062
- **Recurrent point mutations in the kinetochore gene KNSTRN in cutaneous squamous cell carcinoma.** *Nature genetics*
Lee, C. S., Bhaduri, A., Mah, A., Johnson, W. L., Ungewickell, A., Aros, C. J., Nguyen, C. B., Rios, E. J., Siprashvili, Z., Straight, A., Kim, J., Aasi, S. Z., Khavari, et al
2014; 46 (10): 1060-1062
- **The Role of Vismodegib in the Management of Advanced Basal Cell Skin Cancers: A Review** *CURRENT DERMATOLOGY REPORTS*
Ally, M. S., Aasi, S. Z.
2014; 3 (2): 98-102
- **Recurrent point mutations in KNSTRN and disruption of multiple notch signaling genes in cutaneous squamous cell carcinoma**
Lee, C., Bhaduri, A., Mah, A., Ungewickell, A., Aros, C., Nguyen, C., Siprashvili, Z., Johnson, W., Straight, A., Kim, J., Aasi, S., Khavari, P.
NATURE PUBLISHING GROUP.2014: S35
- **Single-stage turn-over muscular hinge flap with Burow's full-thickness skin graft to repair oral commissure defect.** *Dermatologic surgery*
Wysong, A., Aasi, S. Z.
2013; 39 (10): 1530-1534
- **Comment on basal cell carcinoma rebound after cessation of vismodegib in an individual with basal cell nevus syndrome.** *Dermatologic surgery*
Ally, M. S., Wysong, A., Tang, J. Y., Aasi, S.
2013; 39 (9): 1413-1414
- **Update on metastatic basal cell carcinoma: a summary of published cases from 1981 through 2011.** *JAMA dermatology*
Wysong, A., Aasi, S. Z., Tang, J. Y.
2013; 149 (5): 615-616
- **New Onset of Keratoacanthomas After Vismodegib Treatment for Locally Advanced Basal Cell Carcinomas: A Report of 2 Cases** *JAMA DERMATOLOGY*
Aasi, S., Silkiss, R., Tang, J. Y., Wysong, A., Liu, A., Epstein, E., Oro, A. E., Chang, A. L.
2013; 149 (2): 242-243
- **Atlas of Practical Mohs Histopathology**
Aasi, S. Z., Leffell, D. J., Lazova, R. Z.
2013
- **Is Tanning Bed Exposure Associated With Aggressive Basal Cell Carcinoma?** *JOURNAL OF CLINICAL ONCOLOGY*
Gamba, C. A., Wysong, A., Million, L., Aasi, S., Kim, J., Tang, J. Y.
2012; 30 (32): E333-E336
- **Hemorrhagic complications in dermatologic surgery** *DERMATOLOGIC THERAPY*
Bunick, C. G., Aasi, S. Z.
2011; 24 (6): 537-550
- **Cosmetic concerns and management strategies to combat aging** *MATURITAS*
Robinson, D. M., Aasi, S. Z.
2011; 70 (3): 256-260

- **Cancer of the skin** *Cancer Principles and Practice of Oncology*
Reszko A, Aasi SZ, Wilson LD, Leffell DJ
2011; 9: 1610-1633
- **Melanoma and Non-melanoma Skin Cancer** *Dermatology A Pictorial Review*
Aasi SZ, Cox KM
2010; 2: 193-206
- **Commentary: Expanding the Donor Site Options for Full-Thickness Skin Grafts** *Dermatol Surg.*
Aasi SZ
2010; 36: 532-533
- **Z-plasty made simple.** *Dermatology research and practice*
Aasi, S. Z.
2010; 2010: 982623-?
- **Mohs micrographic surgery histopathology concordance** *Annual Meeting of the American-College-of-Mohs-Micrographic-Surgery-and-Cutaneous-Oncology*
Mariwalla, K., Aasi, S. Z., Glusac, E. J., Leffell, D. J.
MOSBY-ELSEVIER.2009: 94–98
- **Skin cancer prevention and photo protection in organ transplant recipients** *Skin Diseases in Organ Transplantation*
Aasi SZ
2008: 295-301
- **Dermatologic surgery: introduction to anatomy and approach** *Fitzpatrick's Dermatology in General Medicine*
Aasi SZ, Pennington B
2008; 7: 2289-2301
- **Free margin distortion** *Complications in Cutaneous Surgery*
Aasi SZ
2008: 95-114
- **Cancer of the skin** *Cancer Principles and Practice of Oncology*
Thomas VD, Aasi SZ, Wilson LD, Leffel DJ
2008; 8: 863-1888
- **Dermatologic diseases and disorders** *Geriatrics Review Syllabus*
Aasi SZ
2006; 6: 309-319
- **Multiple facial angiofibromas: A cutaneous manifestation of Birt-Hogg-Dube syndrome** *Meeting of the New-England-Dermatological-Society*
Schaffer, J. V., Gohara, M. A., McNiff, J. M., Aasi, S. Z., Dvoretzky, I.
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- **Bilobed transposition flap** *DERMATOLOGIC CLINICS*
Aasi, S. Z., Leffell, D. J.
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- **Cancer of the skin** *Cancer Principles and Practice of Oncology*
Aasi SZ, Leffell DJ
2005; 7: 1717-1744
- **Ellipse, ellipse variations and dog-ear repairs** *Surgery of the Skin*
Book SE, Aasi SZ, Leffell DJ
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- **Idiopathic eruptive macular pigmentation: A case of 21 years' duration** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
Mehta, S., Aasi, S., Cole, R., Chu, P., Weinberg, J. M.
2003; 49 (5): S280-S282

- **Complications in dermatologic surgery - How safe is safe?** *ARCHIVES OF DERMATOLOGY*
Aasi, S. Z., Leffell, D. J.
2003; 139 (2): 213-214
- **Dermatologic diseases and disorders** *Geriatrics Review Syllabus*
Aasi SZ, Cook B
2002; 5: 390-399
- **Aquagenic palmoplantar keratoderma** *J Am Acad Dermatol*
Yan AC, Aasi SZ, Alms DJ, Heymann WR, Paller AS, Honig PJ
2001: 696-699
- **Autoantibodies to type VII collagen have heterogeneous subclass and light chain compositions and their complement-activating capacities do not correlate with the inflammatory clinical phenotype.** *J Clinical Immunol.*
Gandhi K, Chen M, Aasi SZ, Lapiere JC, Woodley DT, Chan LS
2000; 20: 416-423
- **Successful correction of depressed scars of the forehead secondary to trauma and morpheme en coup de saber by autologous free dermal-fat graft.** *Dermatol Surg.*
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