

## **Jonathan Stuart Crane, D.O., F.A.O.C.D., F.A.A.D.**

### **EDUCATION**

- High School:
- Syosset High School, Syosset, N.Y. Graduated June 1982
  
- Undergraduate:
- U.S. Merchant Marine Academy, Kings Point, N.Y. Honorable Discharge from U.S Navy 1983
- Pre-Medical: N.Y. Institute of Technology (NYIT) Old Westbury, N.Y. Seven Year Combined Program, B.S. With Honors, Life Science, 1987
  
- Medical:
- New York College of Osteopathic Medicine (NYCOM), Old Westbury, N.Y. Graduated June 1990
  
- Internship:
- Peninsula General Hospital, Far Rockaway, N.Y. Rotating Internship July, 1990 to July, 1991
  
- Residency:
- Lower Cape Fear Dermatology Clinic, Wilmington, N.C. Began July 1, 1991 Completed July 1, 1994
- Three Year Dermatology Residency/Preceptorship, American Osteopathic Association Approved.

### **CERTIFICATION**

- Board Certified-American Osteopathic College of Dermatology November 1994 Licensed Physician in N.C. 1991 to present.

### **PROFESSIONAL MEMBERSHIPS**

- American Osteopathic Association
- American Osteopathic College of Dermatology
- North Carolina State Medical Society
- New Hanover/Pender County Medical Society
- North Carolina Osteopathic Medical Association 1991 to present

## **FELLOW**

- F.A.O.C.D. Fellow of the American Osteopathic College of Dermatology
- F.A.A.D. Fellow of the American Academy of Dermatology

## **STAFF PRIVILEGES**

- New Hanover Regional Medical Center, Wilmington, NC
- Sampson Regional Medical Center, Clinton, NC

## **PERSONAL INTERESTS**

- Boating, Fishing, Water Skiing, Camping, White Water Wilderness Canoeing.

## **POSITIONS HELD**

- Program Director at Sampson Regional Medical Center for Dermatology Residency Program with Campbell University School of Osteopathic Medicine October 14, 2013.
- Dermatology Co-Course Director at Campbell University School of Osteopathic Medicine, Buies Creek, NC
- New Hanover County Medical Examiner 1993 to present.
- North Carolina Osteopathic Medical Association Trustee 1997.
- New Hanover County Child Fatality Prevention Program 1996 to 1998.
- Miller Motte Business College Advisory Committee, Member of Advisory Board 1999
- North Carolina Osteopathic Medical Association Vice President August 2004 to August 2005.
- North Carolina Osteopathic Medical Association President August 2005 to August 2006.
- Immediate Past President of North Carolina Osteopathic Medical Association August 1, 2006 to August 1, 2007.
- Associate Editor Journal of the American Osteopathic College of Dermatology August 2011 to present.
- New Hanover County Airport Authority Vice Chair 2015

## **PUBLICATIONS**

1. Crane JS, Geraci AC, Studzinski M, & LoPresti J. "Ligation of the Superficial Temporal Artery: A Possible Method of Arresting The Progression of Gyrate Atrophy." Student Doctor. Aug. 1991, Vol. 12 #5, Page 33-34.
2. Geraci AC, Crane JS, Cunha BA. "Topical Steroids; Dosing Forms and General Considerations." Hospital Pharmacy. Aug.1991, Vol. 26 #8, Page 699-703, 719.
3. Denzel G, Crane JS, Cunha BA, "Mimics of Septic Arthritis" Hospital Physician. Sept.

1991, Vol. 27 #9, Page 38-41.

4. Crane JS, Bailey WA, Conyack D. "Horseshoe Kidney" Consultant. Dec. 1991, Vol. 31 #12, Page 83. Cligott Publishing, Darien, CT.

5. Crane JS, Geraci AC. "Scarring Alopecia Secondary to SLE" Consultant. Feb. 1992, Vol. 32 # 2, Page 97. Cligott Publishing, Darien, CT.

6. Crane JS, Courrege ML. "Beau's Lines". Consultant. March 1992, Vol. 32 #3, Page 112. Cligott Publishing, Darien, CT.

7. Crane JS, Courrege ML, Ohashi D. "Secondary Syphilis The Great Imitator". Consultant. May 1992, Vol. 32 #5, Page 127. Cligott Publishing, Darien, CT.

8. Courrege ML, Phillips WA, Crane JS. "Ulcerating Basal Cell Carcinoma" Consultant. June 1992, Vol. 32 #6, Page 128. Cligott Publishing, Darien, CT.

9. Crane JS. "DNCB Treatment for Verrucae" American Osteopathic College of Dermatology Newsletter. June 1992, Vol. 10 #23, Page 10.

10. Crane JS, Courrege ML, Ohashi D. "Bullous Pemphigoid". Consultant. July 1992, Vol. 32 #7, Page 126. Cligott Publishing, Darien, CT.

11. Trope L, Bailey W, Crane JS. "Nevus of Ota". Consultant. August 1992, Vol. 32 #8, Page 100. Cligott Publishing, Darien, CT.

12. Courrege ML, Crane JS. "Malignant Melanoma". Consultant. September 1992, Vol. 32 #9, Page 107. Cligott Publishing, Darien, CT.

13. Ohashi D, Courrege ML, Crane JS. "Pitted Keratolysis". Consultant. October 1992, Vol. 32 # 10, Page 86. Cligott Publishing, Darien, CT.

14. Weiss J., Courrege ML, Crane JS. "Berloque Dermatitis". Consultant. November 1992, Vol. 32 # 11, Page 86. Cligott Publishing, Darien, CT.

15. Courrege ML, Crane JS, Bailey WE. "Steroid Induced Rosacea". Consultant. February 1993, Vol. 33 # 2, Page 158. Cligott Publishing, Darien, CT.

16. Abrams B, Schleicher S, Crane JS. "Pretibial Myxedema". Consultant. March 1993, Vol. 33 #3, Page 167. Cligott Publishing, Darien, CT.

17. Kahn DM, Courrege ML, Crane JS. "Sarcoidosis". Consultant. June 1993, Vol.33 #6, Page 130. Cligott Publishing, Darien, CT.

18. Kahn DM, Courrege ML, Crane JS. "Telangiectasia Macularis Eruptiva Perstans". Consultant. July 1993, Vol 33 # 7, page 90. Cligott Publishing, Darien, CT.
19. Kahn DM, Courrege ML, Crane JS. "Eccrine Chromhidrosis". Consultant. Sept. 1993, Vol 33 # 12, page 142. Cligott Publishing, Darien, CT.
20. Kahn DM, Courrege ML, Crane JS. "Acute Gouty Arthritis with Tophus Formation". Consultant. Oct. 1993, Vol. 33 # 10, Page 122. Cligott Publishing, Darien, CT.
21. Kahn DM, Courrege ML, Crane JS. "Erythema Annulare Centrifugum". Consultant. Nov. 1993, Vol. 33 # 12, Page 105. Cligott Publishing, Darien, CT.
22. Phillips WA, Courrege ML, Crane JS, Kahn DM. "Linear Basal Cell Carcinoma". Consultant. Dec. 1993, Vol. 33 #12, Page 105. Cligott Publishing, Darien, CT.
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24. Weiss J, Crane JS. "Dermatology for the Nondermatologist: Part 2". Hospital Physician. Vol. 30, #1, Jan 1994, Page 25-32.
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35. Crane JS. "Cutaneous Mycobacterium Infection". Consultant. Vol. 39 #6, page 1836, June 1999. Cligott Publishing, Darien, CT.
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37. Crane JS. Active Fitness and Health. "Do I Really Need Sunscreen?", Vol. 1 #4, pages 4-5, March-April 2000. Published by IM Communications, Inc.
38. Crane JS. Wilmington Parent. "Cosmetic Dermatology Top 10 Topics", pages 16-17, November 2000. Wrightsville Beach, NC, Copyright Wilmington Parent 2000.
39. Crane JS. Skin Inc. "Dermatologists, Cosmetologists, and Estheticians Working Together" pages 106 and 107, November 2000. Published by Allured Publishing.
40. Crane JS. A Guide to Health and Medicine. "Cosmetic Dermatology The Top Ten Topics", page 14, December 2000. Wilmington Star News, Wilmington, NC.
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51. Crane JS. A Guide to Health and Medicine. "Getting Rid of Wrinkles, Dark Spots, and Sun Damage with Lasers", page 18. December 2, 2001. Wilmington Star News, Wilmington, NC.
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54. Crane JS, Schoonmaker JD. Consultant for Pediatricians. "Emergent Laceration Closure" Vol. 1 #4, page 141. October 2002. Cligott Publishing, Darien CT.
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57. Crane JS, Schoonmaker JD, Hood P. Consultant. "Allergic Contact Dermatitis" Vol. 43 # 6, page 786. May 2003. Cligott Publishing, Darien CT.
58. Crane JSC. Clinical Bulletin # 6 "GentleLASE Treatment of Hyperpigmentation". Candela Corp. Wayland, MA
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60. Crane JS. The Schoch Letter. The Voice of a Clinical Dermatologist. "Treatment of Hyperpigmentation by Long Pulse Alexandrite Laser". Volume 52, # 1, page 4. September 2003. Published by The Schoch Letter, Richmond, VA.
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63. Crane JS, Benjamin RP, Hood PB, DiBenedetto C. Cape Fear Golf "Cosmetic Dermatology What's Hot and What's Not as of 2004" Vol. 1, Issue 2, Page 7-8. July 2004. Wilmington, NC 28412
64. Crane JS, Benjamin RP, Hood PB, DiBenedetto, C. Cape Fear Golf "Cosmetic Dermatology What's Hot and What's Not as of 2004 Part II Sunscreen, Sun Protective Clothing and Laser Wrinkle Removal" Vol. 1, Issue 3, Page 7-8. October 2004. Wilmington, NC 28412
65. Crane JS. Candela GentleLASE Clinical Bulletin. "GentleLASE Treatment of Sun-Damaged Skin". September 2004. No. 13. Wayland, MA 01778.
66. Crane JS, Benjamin RP, Hood PB, DiBenedetto C, Mulligan K. Consultant. "Hailey Hailey Disease" Vol. 44, # 12, page 1591. October 2004. Cligott Publishing, Darien, CT.
67. Crane JS, Benjamin RP, Hood PB, Schoonmaker JD. Consultant. "Oral Lichen Planus" Vol. 44, # 12, page 1567 and 1572. October 2004. Cligott Publishing, Darien, CT.
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"Nephrogenic Fibrosing Dermopathy A Case Report" Pages 77-79. Kirksville, MO.

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81. Crane JS, Benjamin RP, Hood PB, DiBenedetto C, Britt K. Cape Fear Golf. "Pulled Muscle or Shingles?" Vol. 3, Issue 1, Page 5. March 2006. Wilmington, NC 28412.

82. Crane JS, Cook, C, Hood, P, DiBenedetto, C. Consultant. "Allergic Contact Dermatitis" Vol. 46, # 5, page 565 April 2006. Cligott Publishing, Darien, CT.

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94. Crane JS, Schoonmaker, J. Consultant For Pediatricians. "Emergent Laceration Closure" Vol. 7, # 7, page 98 July 2008. Cligott Publishing, Darien, CT.
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101. Crane JS, Britt KM, Griffin E. Consultant. "Perifolliculitis Abscends et Suffodines" Vol. 48, # 12, page 978, November 2008. Cligott Publishing, Darien, CT.
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117. Crane, JS, Jackson K, Annunziata J. The Journal of the American Osteopathic College of Dermatology. "The Treatment of Rhynophyma with Electrosurgery: A possibly Underutilized Technique". Volume 29 2014;29:31-32.
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121. Crane JS, Jackson DG. The Journal of American Osteopathic College of Dermatology. "Laser Improvement of Permanent-make-up Eyebrows: A Case Report". Volume 33 2015; 35
122. Otteni C, Sandoval LF, Crane JS. The Journal of American Osteopathic College of Dermatology. "Coexisting Confluent and Reticulated Papillomatosis and Terra Firma-Forme Dermatitis". Volume 34 2016; 40-41
123. Felicia E. Ekpo,DO, J Ryan Jackson,DO, Brianna McDaniel,DO, Carla D. Rohena,PA-C, Christopher Cook,DO,FAOCD, Jonathan S. Crane,DO,FAOCD. The Journal of American Osteopathic College of Dermatology. Inflammatory Linear Verrucous Epidermal Nevus(ILVEN) Worsening During Pregnancy: A Case Presentation and Discussion. Volume 35 2016; 20-23

124. William Scharpf,BS, Laura F. Sandoval,DO, Jonathan Stuart Crane,DO,FAOCD. The Journal of American Osteopathic College of Dermatology. Shoulder Droop Following Excision of Malignant Melanoma on the Posterior Neck. Volume 35 2016; 53-55

125. Angela Macri,DO, Jaclyn Hess,MD, Jonathan S. Crane,DO,FAOCD,FAAD. The Journal of American Osteopathic College of Dermatology. Multinucleate Cell Angiohistiocytoma: A Case Presentation and Discussion. Volume 36 2016; 35-36

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### **SUBMITTED, PUBLICATION PENDING**

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2. Hess, J., Macri, A., George Jackson,D., Crane, J. Blast Off: Treatment of Seborrheic Keratoses with an Alexandrite 755 nm Laser After Color Enhancement. Submitted to JAOCD

3. Brianna McDaniel, D.O., \*Daren A. Fomin, MS-IV\*\*, Jonathan Crane, D.O., F.A.O.C.D.\*\*\*. The Promising Potential Role of Ketones in Inflammatory Dermatological Disease: A New Frontier in Treatment Research. Submitted to Journal of Dermatological Treatment.

4. Joseph Prohaska, D.O., Karla Guerra OMS III, Muammar Arida, M.D., Jonathan Crane, D.O., FAOCD. Cutaneous Marginal Zone B-cell Lymphoma Masquerading as Reactive Lymphoid Hyperplasia. Submitted to Cutis.

### **POSTER PRESENTATIONS**

1. Donato A, Jackson JK, Sandoval LF, Crane JS. Combination of topical imiquimod and oral acitretin in the treatment of multiple large squamous cells and basal cell carcinomas on the face. Southeastern Consortium for Dermatology Nov 2014, Charlottesville, VA

### **CLINICAL TRIAL EXPERIENCE**

1. Phase IV, Post-Marketing, Observations Surveillance Registry for the treatment of psoriasis. 7/16/2008-ongoing.
2. Phase IV, Observational Post-Marketing Safety Surveillance Registry for the treatment

of psoriasis. 9/5/2006-ongoing.

3. Phase IV, Observational Registry, open label for outcomes and safety events in patients with atopic dermatitis. 5/20/2005-ongoing.

4. Phase IV, Observational Post-Marketing Safety Surveillance Registry, multinational, open-label for assessment and tracking of long-term safety of pediatric subjects with atopic dermatitis. 6/01/2005-ongoing.

5. Phase IV, Observational Trial, open-label for assessment and tracking of long-term safety of patients with chronic plaque psoriasis. 9/29/2005-ongoing.

6. Phase IV, Epidemiologic Trial, for outcomes and safety events in patients with chronic to severe plaque psoriasis. 3/24/2005-10/12/2009

7. Phase IV, open-label effectiveness, safety, and subject satisfaction with oral medication for treatment of rosacea. 4/29/2009 – 5/19/2009

8. Phase IV, open-label effectiveness of topical cream for treatment of rosacea. 3/5/2008 – 4/30/2008

9. Phase III, Investigator Blinded, Randomized, active- controlled, parallel-group study to compare pediatric subjects with the efficacy and safety of treatments for tinea capitis. 10/12/2005-3/06/2006

10. Phase III, Open Label, Effectiveness and Safety of Topical Cream for the Treatment of Actinic Keratosis. 7/23/2004-4/26/05

11. Phase IV Double Blinded, Randomized, Comparison Trial for Treatment and Efficacy of Atopic Dermatitis in Pediatric Patients. (59 patients enrolled) 9/18/2002 to 5/2/2003

12. Phase III, Open-Label Study to Evaluate the Safety of Topical Treatments for Atopic Dermatitis. (97 patients enrolled) 2/27/2000 to 10/21/2001

13. Phase III, Open Label for Plaque Psoriasis. (6 patients enrolled) 10/4/2002 to 5/5/2003

14. Phase II, Double Blind, Randomized, placebo-controlled Trial for Safety and efficacy for Plaque Psoriasis. (9 patients enrolled) 10/10/2001 to 1/30/2003

15. Laser Device Trial, for the Treatment and Efficacy of Wrinkles. (2 patients enrolled) 2/15/2002 to 4/19/2004

16. Phase II, Randomized, Double Blind Study for the Treatment of Mild to Moderate Atopic Dermatitis in Adults. 5/6/2002-3/26/2003
17. Laser Device Trial, for the Treatment and Efficacy of Pigmentation. (18 patients enrolled) 2/15/2002 to 4/19/2004
18. Phase 1, Dose Escalation, Open Label for the Treatment of Melanoma. Went to Inv. meeting, our office never proceeded with this trial. 2/11/2004 to 6/17/2004
19. Allergan Surveillance Trial: Multi center, Open-Label Surveillance Trial to Evaluate the Safety and Efficacy of Tazorac (tazortene) Cream, 0.1 % in a large patient population with acne vulgaris by investigators in a clinical practice. Principal Investigator.
20. A multicenter, double-blinded, randomized, parallel-group and placebo-controlled Study to Determine the Bioequivalence of a generic Azelaic Acid Gel, 15% and the Reference Listed Finacea (Azelaic Acid) Gel, 15% in subjects with Moderate Papulopustular Rosacea. Principal Investigator. (35 enrolled) 2010 to 2012.
21. Observational Post-marketing Safety Surveillance Registry of Enbrel (Etanercept) for the Treatment of Psoriasis. Principal Investigator. 12/2004-4/2013.
22. A Randomized, Double-Blind, Parallel-Group, Vehicle-Controlled, Multicenter Study Comparing Imiquimod Cream, 3.75% Generic to Reference Listed Drug in the Treatment of Actinic Keratosis of the Face or Balding Scalp. Principal Investigator. (15 Enrolled). 5/2012-6/2013.
23. Phase III, A Randomized, Vehicle-Controlled, Double-Blind, Parallel Group, Multicenter Study to Evaluate the Safety and Efficacy of M518101 in Subject with Plaque Psoriasis. Principal Investigator. 8/2013-July 2015 Enrollment completed: 38 Subjects enrolled
24. A Multicenter Open Label Uncontrolled Study of the Long Term Safety and Efficacy of Calcitriol 3mcg/g Ointment for Pediatric Patients (2 to 17 years of age) with Mild to Moderate Plaque Psoriasis (Study Closed)
25. An Observational Multicenter Disease Registry to Evaluate Clinical Practice Trends and Outcome in Adult Patients with Hidradenitis Suppurativa-Unite (November 2013-July 2016 Study Closed)
26. A Multicenter Open Label Uncontrolled Study of the Long Term Safety of An2728 Topical Ointment, 2 % in the Treatment of Children, Adolescents, and Adults (Ages 2 years and older) with Atopic Dermatitis (July 2014-closed enrollment-10 subjects enrolled) Study Closed

27. A Multicenter, Randomized, Double Blind, Vehicle-Controlled Study of the Safety and Efficacy of AN2728 Topical Ointment, 2 % in Children, Adolescents, and Adults (2 years of age and older) with Atopic Dermatitis (July 2014- 20 subjects enrolled,) Study Closed

28. A Double-blind, Randomized, Parallel-group, Vehicle-controlled, Multicenter Study Comparing TOLMAR Calcipotriene Ointment,0.005% to Reference Listed Drug in the Treatment of Plaque Psoriasis, March 2015-March 2016, 16 Subjects enrolled. Study Closed

29. A Multi,Double-Blind Randomized, Vehicle-Controlled, Parallel-Group Study to compare Perrigo New York,Inc's Ingenol Mebutate Topical Gel 0.05% to Leo Pharma Inc. Picato Topical Gel 0.05% (Ingenol Mebutate Topical Gel 0.05%), and both Active Treatments to a Vehicle Control in the Treatment of Actinic Keratosis on the Trunk and Extremities

30. A Randomized, Double-Blind, Parallel-Group, Vehicle-Controlled, Multicenter Study comparing XXX to XXX in the treatment of Actinic Keratosis on the Face or Bald Scalp (November 2015-March 2015, 20 subjects enrolled, Study closed)

31. A Randomized Controlled Evaluation of the Safety and Efficacy of topical treatments for Moderate-Severe Facial Acne Vulgaris (October 2015-February 2016, 7 subjects enrolled, Study closed)

32. A Randomized, Double-blind, Vehicle Controlled, Multicenter, Parallel Group Study of the Efficacy and Safety of XXX Cream in the treatment of Moderate to Severe Plaque Psoriasis for 14 days. (March 2016-September 2016, 7 Subjects Enrolled) Study Closed

33. A multicenter, Randomized, Double-blind, Parallel-Group Vehicle Controlled Study to compare the Efficacy and Safety of XXX Cream versus Vehicle Cream in Subjects with Acne Vulgaris (February 2016, Study closed)