# UH ADULT & PEDIATRIC ALLERGY/IMMUNOLOGY FELLOWSHIP 2019-20

# OSTEOPATHIC RECOGNITION

DESCRIBE ANY ADDITIONAL QUALIFICATIONS FOR THE DIRECTOR OF OSTEOPATHIC EDUCATION, NOT LISTED IN THE ACCREDITATION DATA SYSTEM (ADS) FACULTY ROSTER THAT ARE RELEVANT TO THE ROLE. IF NONE, INDICATE "NOT APPLICABLE" IN THE BOX BELOW (4)].

Not applicable.

#### **OSTEOPATHIC PROGRAM PERSONNEL 1.**

LIST THE PARTICIPATING SITES WHERE FELLOWS WILL RECEIVE EDUCATION IN OSTEOPATHIC PRINCIPLES AND PRACTICE (OPP), ALONG WITH THE OSTEOPATHIC FACULTY MEMBER APPROVED AS THE LOCAL SITE DIRECTOR WHO IS ACCOUNTABLE FOR DESIGNATED OSTEOPATHIC FELLOW EDUCATION AND SUPERVISION.

	Name of Participating Site	Name of Site Director
1	Allergy/Immunology Associates, Inc., 5915 Landerbrook Drive #110, Mayfield Heights, Ohio 44124	Robert Hostoffer, DO, MEd, FAAP, FACOP, FACP, FACOI, UH Adult & Pediatric Allergy/Immunology Fellowship Program Director  Devi Jhaveri, DO, FAAP, FACOP, UH Adult & Pediatric Allergy/Immunology Fellowship Assistant Program Director
2	University Hospitals (UH) Cleveland Medical Center, 11100 Euclid Avenue, Cleveland, Ohio 44106	Robert Hostoffer, DO, MEd, FAAP, FACOP, FACP, FACOI, UH Adult & Pediatric Allergy/Immunology Fellowship Program Director  Devi Jhaveri, DO, FAAP, FACOP, UH Adult & Pediatric Allergy/Immunology Fellowship Assistant Program Director
3	UH Richmond Medical Center, 27100 Chardon Road, Richmond Heights, Ohio 44143	Christopher L. Tangen, DO, Program Director, ACGME-accredited Transitional Year Program, UH Regional Hospitals, Medical Director, Sports Medicine  Susan M. Ratay, DO, MS, Director of Osteopathic Education, University Hospitals Osteopathic Consortium

	Name;	Devi Jnaveri D.O.	
CUI	Office Address:	5915 Landerbrook Mayfield Heights, 0 216 381 3333	
Rober	William Hostoffer, Jr., D.O.	312 399 5533	
	5536 Prestwick Ln. nd Hts., Oh 44143	drjhaveri@allergye	cleveland.com
1011	ess: Allergy Immunology Associates, Inc. South Green Road Euclid, Ohio 44121  t 31, 1959  easant, PA  Karen Louise en: Alexander David, Vincent Michael, as James Sarah Irene, Zachary Thomas	Associate Program Director Allergy Immunology Fellowship	University Hospitals of Cleveland, Case Western Reserve University
GRAM	easant, PA	Partner and Physician	Allergy Immunology Associates Inc.
THIC PRO	Karen Louise en: Alexander David, Vincent Michael, as James, Sarah Irene, Zachary Thomas	Research Partner Medical Director	Ohio Clinical Research Associates, LLC.
SO (Unive	ry's Preparatory rd Lake, Michigan, 1977 Carroll University rsity Heights, OH Biology), 1981	DO	Osteopathic Medicine
Philad	elphia College of Osteopathic Medicine elphia, PA	BS	Marketing and Finance
	trie College of Osteopathic Medicine	ining	
Erie, I Maste	A s of Medical Education, 2019	Fellow	Allergy and Immunology
	2009-2012	Resident	Pediatrics

SUSAN MARIE RATAY, DO AOA/ACOFP#: 184475 Ohio State License # 34.011399

#### Personal Address

7061 Cobblestone Lane Mentor, Ohio 44060 (330)990-5423 (cell)

Susan.borisuk@med.lecom.edu; Susan.Ratay@UHhospitals.org

#### **Work Addresses**

Administrative/ Medical Education University Hospitals Regional Hospitals 27100 Chardon Road Richmond Heights, Ohio 44143 (440) 585-4821 Hrs: Thursday & Friday 7am-4pm

Family Practice Provider
University Hospitals Ashtabula Medical Center
3315 North Ridge Road East
Suite #200

Ashtabula, Ohio 44004 (440)964-3733

Hrs: Monday 7am-5pm; Tuesday 8am-4pm; 1st/3rd/5th Wednesday 7am-7pm

#### Education

Family Practice Residency at University Hospitals Richmond Heights, September 2015
Lake Erie College of Osteopathic Medicine, Master's in Medical Education, December 2016
Arizona Center for Integrative Medicine, Integrative Medicine in Residency training, June 2015
Lake Erie College of Osteopathic Medicine, D.O., June 2012
Miami University of Ohio, M.A.T. in Science Education (Earth Science, Life Science and Chemistr

Miami University of Ohio, M.A.T. in Science Education (Earth Science, Life Science and Chemistry), August 2008

Miami University of Ohio, B.A. in Chemistry, August 2008

#### Christopher Tangen, D.O.

WORK 27155 Chardon Rd. Suite 106 Richmond Heights, OH 44143 (440) 585-7146 Christopher.Tangen@UHHospitals.org HOME 8231 Beacon Place Cleveland, OH 44103 (217) 840-4772 (cell) christangen@gmail.com

#### EDUCATION

Des Moines University, Des Moines, Iowa Doctor of Osteopathic Medicine August 2001 through May 2005

Miami University, Oxford, Ohio B.A. in Microbiology August 1997 through May 2001

#### POSTGRADUATE EDUCATION

Primary Care Sports Medicine Fellowship
Two-year ACGME/AOA dually accredited program
University Hospitals Case Medical Center/ Rainbow Babies and Children's Hospital
Cleveland, Ohio
July 2008 through June 2010

Family Medicine Internship / Residency University Hospitals Case Medical Center Cleveland, Ohio June 2005 through June 2008

#### **CLINICAL EXPERIENCE**

Associate Medical Team Physician, Cleveland Browns Cleveland, OH May 2014- Current

Medical Director, Sports Medicine University Hospitals Regional Hospitals Richmond Heights and Bedford, OH Sept 2010- Current

#### OSTEOPATHIC PROGRAM PERSONNEL 3.A.

HOW DOES THE PROGRAM VERIFY THAT OSTEOPATHIC FACULTY MEMBERS PARTICIPATE IN A REQUIRED FACULTY DEVELOPMENT PROGRAM THAT INCLUDES OPP?

- UH-Lake Erie Consortium for Osteopathic Medical Training (LECOMT) partnership
  - Faculty development series centered around "Teaching and Learning" and "Scholarly Activity"
  - Integration of OPP
- Cleveland Academy of Osteopathic Medicine (CAOM)
   Annual OMT Seminar.
- American College of Osteopathic Pediatricians (ACOP) program integration of OPP/OMT in the care of pediatric patient (POMT)
- Scholar Teacher videos developed to enhance OPP instruction
- ► Mid-Western University Costin Institute Scholars Program application of OPP in training programs (Dr. Jhaveri)
- Masters of Medical Education program via LECOM to develop a greater understanding of curriculum and teaching (Dr. Hostoffer).

# LYMPHATICS AND THE IMMUNE SYSTEM

ENHANCING THE IMMUNE SYSTEM WITH OMT

ROBERT HOSTOFFER, DO, LHD, FACOP, FAAP, FCCP, FACOI

PROGRAM DIRECTOR, ALLERGY /IMMUNOLOGY FELLOWSHIP, UNIVERSITY HOSPITALS,
CLEVELAND MEDICAL CENTER

DEVI JHAVERI, D

ASSOCIATE PROGRAM DIRECTOR OF ALLERGY/IMMUNOLOGY FELLOWSHIP

BENEFICIAL EFFECTS TO IMMUNE SYSTEM



· Lymphatic Pump techniques

• Increased basenbil count Patient supine with knees riexed





- Turn patient's head away
- Physicians hands below the clavicles
- Hands provide pressure that is equally distributed over the upper chest
- Physician applies a downward and caudally in a rhythmic manner





# Perenial Allergic Rhinosinusitis and OMM

Robert Hostoffer, DO

Devi Jhaveri, DO

# **Pediatric Chapman Reflexes**

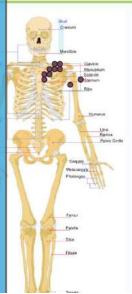


- American College of Osteopathic
   Pediatricians
- Robert Hostoffer, DO,FACOP, FAAP

edited by Eric Hegybeli, DO, FACOP

questionnaires by Michael Rowane, DO, MS, FAAFP, FA

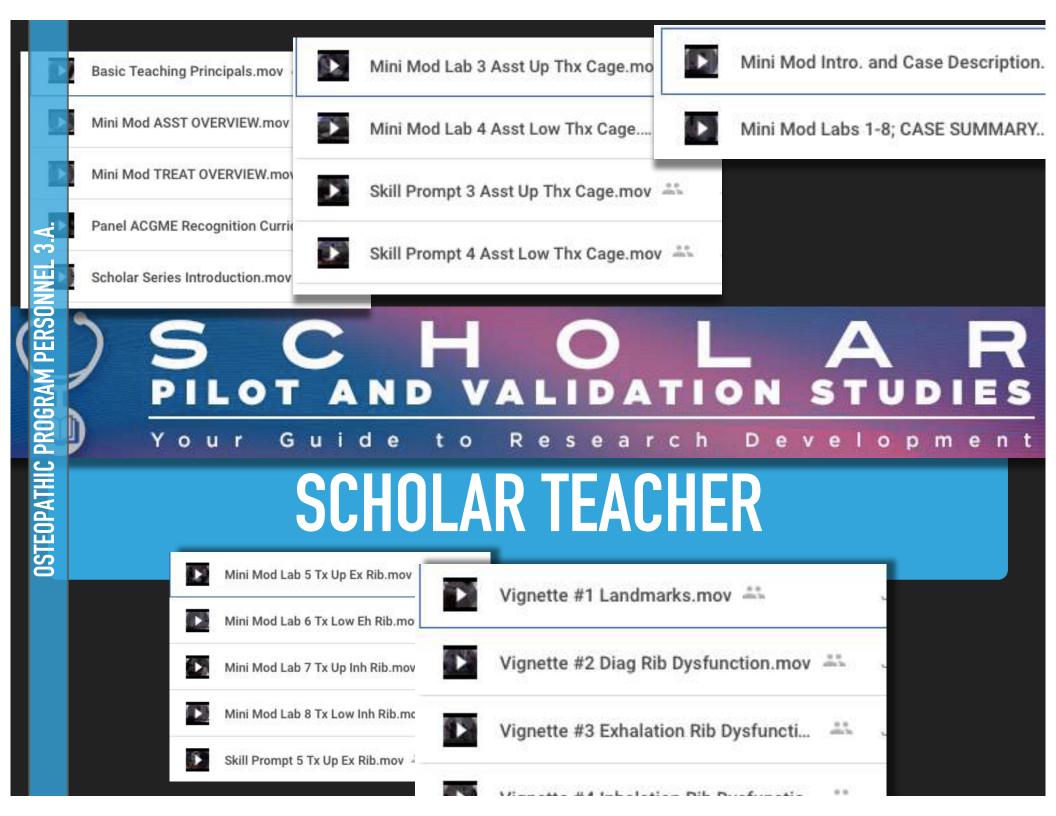
# man Reflexes Ear, Nose, Throat and Neck: Anterior



- Middle Ear: Superior Medial Clavicle
- Nasal Sinus: Inferior Medial Clavicle
- Pharynx: inferior sternoclavicular joint
- Tonsils: 1st ICS, just lateral to the sternum
- Retina, Conjunctiva: Lateral upper humerous
- Neck: Medial upper humerous

# **Innervation Table**

Organ/System	Parasympathetic	Sympathetic	Ant. Chapman's	Post. Chapman's
EENT	Cr Nerves (III, VII, IX,	T1-T4	T1-4, 2nd ICS	Suboccipital
Heart	Vagus (CN X)	T1-T4	T1-4 on L,	T3 sp process
Respiratory	Vagus (CN X)	T2-T7	12-3 3-8 4th ICS	T3-5 sp
Esophagus	Vagus (CN X)	T2-T8		process
Foregut	Vagus (CN X)	T5-T9 (Greater Splanchnic)		-
Stomach	Vagus (CN X)	T5-T9 (Greater Splanchnic)	5th-6th ICS on	T6-7 on L
Liver	Vagus (CN X)	T5-T9 (Greater Splanchnic)	Rib 5 on R	T5-6
Gallbladder	Vagus (CN X)	T5-T9 (Greater Splanchnic)	Rib 6 on R	T6
Spleen	Vagus (CN X)	T5-T9 (Greater Splanchnic)	Rib 7 on L	T7
Pancreas	Vagus (CN X)	T5-T9 (Greater Splanchnic), T9- T12 (Lesser Splanchnic)	Rib 7 on R	T7
Midgut	Vagus (CN X)	Thoracic Splanchnics (Lesser)		(144)
Small Intestine	Vagus (CN X)	T9-T11 (Lesser Splanchnic)	Ribs 9-11	T8-10
Appendix		T12	Tip of 12th Rib	T11-12 on R
Hindgut	Pelvic Splanchnics (S2-	Lumbar (Least) Splanchnics	***	-
Ascending Colon	Vagus (CN X)	T9-T11 (Lesser Splanchnic)	R Femur @	T10-11
Transverse Colon	Vagus (CN X)	T9-T11 (Lesser Splanchnic)	hip Near Knees	
Descending Colon	Pelvic Splanchnic (S2-4)	Least Splanchnic	L Femur @ hip	T12-L2
Colon & Rectum	Pelvic Splanchnics (S2- 4)	T8-L2		1,444



# Lake Erie College of Osteopathic Medicine

Be it known that the Truslees, President, and Faculty by virtue of the authority granted by the Commonwealth of Pennsylvania have conferred upon

Robert W. Hostoffer, Jr., D.O.

the degree of

Master of Science in Medical Education

in recognition of the satisfactory fulfillment of the requi In Witness Whereof, we have hereunto affixed and subscribed our names this twenty-sixth

Marlen D. Moseo

Marlene D. Mosco Chair of the Board of Trustees

# MIDWESTERN UNIVERSITY

CHICAGO COLLEGE OF OSTEOPATHIC MEDICINE

This is to certify that

Devi Jhaveri, D.O., FAAP, FACOP

Has satisfactorily completed the requirements of the
Costin Institute for Osteopathic Medical Educators
And as such is deemed a
Costin Scholar



The scholar has demonstrated ability to teach, research and lead with distinction and has an understanding of the educational process. The scholar is committed to improving medical education at all levels.



September 17, 2016

Kathleen H. Goeppinger, P.D.
President & CEO

Karen J. Nichols, D.O., M.A., MACOI Dean, Chicago College of Osteopathic Medicine Fran Daly, Ph.D.
Director, Costin Institute

#### OSTEOPATHIC PROGRAM PERSONNEL 3.B.

HOW DOES THE PROGRAM VERIFY THAT OSTEOPATHIC FACULTY MEMBERS PARTICIPATE IN A REQUIRED FACULTY DEVELOPMENT PROGRAM THAT INCLUDES <u>ongoing education addressing evaluation and assessment in competency-based medical</u> education?

- ► Active participation of faculty in organized clinical discussions, rounds, didactics, and conferences-workshops by:
  - Evaluating OMM/OPP competency throughout 2 years of Allergy/Immunology Fellowship.
  - ► Supervising OPP/OMT application in clinical care of patients, especially in ambulatory A/I training site.
- ► Faculty facilitators for OPP/OMT focused educational offerings, including:
  - Monthly Osteopathic A/I Journal Club
  - Quarterly POMT Modules
  - Osteopathic-focused scholarly projects
  - Scholar Series, designed to develop scholarly environments and meet fellows' program research requirements:
    - Scholar Specific to assist w/ case presentation
    - ► Scholar Teacher for use in ACGME Osteopathic Recognition
- ► UH Regional Hospitals Osteopathic-focused faculty facilitate OPP/OMT focused educational offerings, including:
  - ▶ UH ONMM Grand Rounds Series
  - ► Monthly Osteopathic Neuromusculoskeletal Medicine (ONMM) Core Faculty Didactic-Workshop Series

Sta Gr	duati	me: e of Fellow on Date of	ship: Fellowshi			ON ASSESSM	IENT: ALLERGY-IMMUN	NOLOGY						
		100 / 200 Au RANGO				tynes and 5 M	lodels of Osteopathic Car	re.						
De	doloist.	ite OMT	1st	2nd	3rd	4th	Competency	e.						
		/		Ziiu		/ Handall	(Attending Initials)							
Te Co So Mi														
So			Х	1		X								
M		ergy	Х	j		X								
M	മ	Release	Х	1		X								
COL	ന്	ain		X		X								
HV	А _			X		X								
		dels		x	Х	X								
31	<b>=</b>	dels		^	Š.		1	University Hospitals FACULTY EVALUATION OF FELLOW	VSHIP (OSTEOR	ATHIC) PI	OCRAN	A DEDEC	DMAN	TF.
Te	ERSO ERSO	ntify sites s:	of somatic	dysfunction	n to establi	sh diagnosis a	and demonstrate ability t		The Fellowship P	rogram's ov	erall perfe	ormance w	as: _ab	
Di:	Osis	<u>.</u>	1st	2nd	3rd	4th	Competency (Attending Initials)	Year of Evaluation: 2020_	Program Directo Date:	r Signature				
UF	록 .	nique	2					Evaluator:	Associate Progra	m Director	Signatur	e:		
ne Oc		elease	х	-	_	X	- I	1.55-17(1-data), 1.54(1.1)	Date:					
Sir	3	urage	x	}		X		-	2					- 5
	PROGRAM	1	X	1		x		DIRECTIONS: ACGME Osteopathic Recognition training progr Competencies that integrate Osteopathic Principles and Practices						
Te Ea TH	<u>ں</u>		x	19	0:	X		represent the frequency with which this program demonstrated the						
TH	100 CT	REGION		- Hr	-91		937	academic year.						
Th	<b>A</b>	ilet	х	1	T.	X	ĭ	COMPETENCY: OSTEOPATHIC CONCEPTS	T'					
MI		HVLA							Infrequently	Sometimes	Often	Most	Always	Unable
Ril			х			X	1	Fellowship must teach the use of therapeutic osteopathic manipulation approaches skillfully.	<25%	25-49%	50-75%	Often 75-95%	>95%	to Evaluate
Th	OSTEOPATHIC	VLA		х		X		Teaches ability to understand and perform structural examination				15-2576		Lydrauc
Ini	0	Ribs		x		X		- Leavines admity to understand and perform structural examination	3					
Ex		Ribs		x	8	x		Integrates findings of osteopathic examination in diagnoses and						
Ex Do		Of Market		X	-	X		treatment plan						
				9				Teaches holistic patient-centered care in planning, testing, therapy	v					
01								and prevention						
Lyı		Pump		Х	10.	X		Teaches understanding of the somato-visceral relationship and the						4
Di OI Ly OC		4			Х	х		role of the musculoskeletal system in disease.						
OS C		1		Х	Х			Comments	I.			L		
								COMPETENCY: OSTEOPATHIC MEDICAL KNOWLEDGE  Fellowship must teach knowledge of established and evolving biomedical, clinical and epidemiological sciences and applicat of this knowledge to patient care.		Sometimes 25-49%	Often 50-75%	Most Often 75-95%	Always >95%	Unable to Evaluate

Contribution of Osteopathic Medicine to Care of Patients with Chron Wounds J Am Osteopath Assoc. 2011; 111(9):538-542

Dana C. Anglund, DO

Millicent King Channell, DO

\* Department of Osteopathic Manipulative Medicine at the University of Medicine and Dentis Jersey-School of Osteopathic Medicine in Stratford

Objective: To review the state of research regarding lymphatic OMT techniques; provide an overview of the wound-healing process includ research that demonstrates effects of lymphatics on wound healing

cholar Specific

olar work can be developed.



OHIO OSTEOPATHIC ASSOCIATION

Robert W. Hostoffer, DO Brian Peppers, DO, PhD Michael Rowane, DO

our Guide to Research Development

Scholar Specific was released in De workshops were added in Fall 2018

#### **Session Titles**

Session 1: Case Presentation (1hou

Session 2: Capstone for Osteopath This video compares osteopathic re scenarios that mimic real life medic clinical observations are made. Fro

#### Lymphatics in Osteopathic Medical Literature

1) Dr. Still viewed lymphatics as a "fountain of life-giving watesion 3: Osteopathic Recognition Curriculum (48:22 minutes) provided by nature to wash away impurities as they accumula Scholar Series presenters discuss Implementing an Innovative ACGME Osteopath bodies"

2) 1910- OMT enhanced immune function in acute infections I influenza epidemic

3) Hypothesized OMT aided in removal of waste products, lymind neck1. The first step is to treat a and healing, absorption/process of toxins, and stimulation ofed by releasing the thoracic inlet/ou response

#### Modern Research

1) Lymphatic flow is directly enhanced by OMT

a. Dery et al (2000): Enhanced lymphatic flow with thoulative treatments performed in a st pump in murine model

b. Knott et al (2005): Thoracic and abdominal pump incge of Galbreath (D), Ear tug (E), A lymph flow in thoracic duct of dog(P<.05)

 Downey et al (2008): Abdominal pump increase lym thoracic duct of dog

2) Lymphatic OMT influence the immune system by mobilizing cells and enhancing immunity

> a. Measel (1982): Use of thoracic pump enhanced B-ce response in healthy male medical students who were with pneumococcal polysaccharide

> b. Mesina et al (1998): Transient increase in basophil le male medical students after pectoral traction and sple

> c. Jackson et al (1998): Participants who underwent the splenic pump OMT in healthy individuals demonstra consistently higher titers of hep B vaccine than contr

eloped utilizing options that are already available to the teaching program. Our par gram director, dean, young faculty and curriculum chair. The SCHOLAD SDECIEIC vide

rues (B-G). Doming the diaphragm ineously present with lymphatic co nalities, and/or lower extremity sor immunology clinic: Cervical chair sinuses(G1) and maxillary sinuses

	Types of Rhinitis
Types of Allergic Rhinitis	Characteristics
Allergic Rhinitis with Seasonal Variations	IgE-mediated reaction to either seasonal or environmental aeroallergens
Perennial Allergic Rhinitis with Seasonal Variation	Perennial environmental aeroallergens include animal dander, cockroaches, dust mites, molds, and pollen where pollen is
Perennial Allergic Rhinitis without Seasonal Variation	geographically perennial
Episodic Allergic Rhinitis after Specific Aeroallergen Exposure	IgE-mediated reaction to sporadic/episodic exposure to aeroallergens
Types of Nonallergic Rhinitis	Characteristics
Vascenotor Rhinitis	Chronic symptoms without immunologic or infectious origins
Infectious Rhinitis	Acute or chronic symptoms due to either virus or bacteria  Approximately 98% of acute infectious rhinitis are due to viruses
Occupational Rhinitis	Rhinitis due to airborne substances in workplace



Title: Rhinitis: The Osteopathic Modular Approach

Authors: Shan Shan Wu, D.O., <sup>1</sup>Kelsey Graven, D.O., <sup>2</sup>Michelle Sergi, OMS IV, <sup>3</sup>Robe Hostoffer, D.O. <sup>1,3,4</sup>

munology Fellowship, Department of Pulmonary and Critical Care Medicin University Hospitals-Cleveland Medical Center, 11100 Euclid Ave. Cleveland. Obio 44106

<sup>2</sup>University Hospitals-St. John Medical Center, 29000 Center Ridge Road, Westlake, Ohio

<sup>3</sup>Ohio University Heritage College of Osteopathic Medicine, Cleveland, 4180 Warrensville Center Road, Warrensville Heights, Ohio 44122

<sup>4</sup>Allergy/Immunology Associates Inc., 5915 Landerbrook Dr., Ste 110, Mayfield Heights, Ohio

Corresponding author Shan Shan Wu, D.O.

Preferred Mailing Address: 5915 Landerbrook Dr., Ste 110, Mayfield Heights, OH 44124 Preferred Email Address: swu815@gmail.com Office Telephone Number: 216-381-3333

Fax Number: 216-381-3002

Authors' Email Addresses Kelsey Graven, D.O.

# Osteopathic manipulative treatment (OMT) for lower urinary tract symptoms (LUTS) in women

Helge Franke, D.O. (Europe), M.Sc.\*, Klaus Hoesele, D.O. (Europe), M.Sc.

Institute for Osteopathic Studies, Siegen, Germany

Received 30 January 2012; received in revised form 12 April 2012; accepted 29 April 2012



# **UHOC Osteopathic Conference**

Management Services Center – Media Room 605 Warrensville Center Road Shaker Heights, Ohio 44122 Friday, November 2, 2018

- n 8:15am: Osteopathic Lecture presented by: Edward Craft, DO, Family ne Physician, University Hospitals, St. John Medical Center, Westlake, Ohio
- 9:00am: Research during Residency & Fellowship, Janet Peachey, Clinical esearch Project Coordinator, University Hospitals, Regional Hospitals
- \*15an 10:30am: Osteopathic Neuromusculoskeletal Medicine Grand Rounds

  \*\*Prince of the Communication of the Comm
- 10:30 m 10:50am: Journal Club, OMT on Post-Operative Ileus, Andrea Fischione,

  O, Asadeh Zangeneh, DO, Gary Stocker, OMS-3, Patrick Russell, OMS-3
- 0:50 m-11:10am: Journal Club, Qualitative Evaluation of OMT in a Patient with
  A Brief Report. Gregory Bascya, DO: Jennifer Bostick, DO: Hoang Physia, DO

mmary Background: Because of its prevalence and impact on women's well-being, and its the financial costs, female LUTS is an important health problem that requires serious attention from health professionals.

*ijective*: The objective of this review was to determine the clinical effects of osteopathic satment on female lower urinary tract disorders.

ta sources: A systematic literature search was performed in May 2011 in the electronic datases Cochrane Central Register of Controlled Trials (CENTRAL), MEDLINE, EMBASE, CINAHL, Dro, OSTMED-DR, OSTEOPATHIC WEBRESEARCH and databases of ongoing trials. A manual arch in reference lists and a personal communication with experts in the field of osteopathy is also conducted to identify additional studies.

udy selection: Only randomized clinical studies (RCT) or controlled clinical studies (CCT) re included. Inclusion criteria of the participants were female, at least 18 years old and diagnosed female urinary tract disorder. Exclusion criteria were neurologic disorders, mors, urinary tract infections or antibiotic treatment, and pregnancy.

ta extraction: Two review authors independently extracted the data of the studies using standardized data extraction form. The updated Cochrane Risk of bias tool from 2011 was ed to assess the methodological quality.

sults: The quantitative analysis shows a statistically significant and clinically relevant provement when the osteopathic intervention was compared to an untreated group. Two idies which compare OMT with the pelvic floor muscle training as a reference treatment cument almost the same therapeutic effect.

LIST THE CORE OSTEOPATHIC FACULTY MEMBERS IDENTIFIED ON THE ADS FACULTY ROSTER.

- Dr. Robert Hostoffer, DO, Program Director
- Devi Jhaveri, DO, Associate Program Director
- Non-ADS Core faculty of UH Regional Hospitals
  - ► Susan M. Ratay, DO, MS
  - Robert Truax, DO
  - Christopher L. Tangen, DO
- LECOMT faculty resources to support training in OPP/OMM

ne 2015

Chemistry)

# 5915 Landerbrook Dr. #110 idr CURRICULUM VITAE Robert William Hostoffer, Jr., D.O. Home 5536 Prestwick Ln. Highland Hts., Oh 44143 ss: Allergy Immunology Associates, Inc. outh Green Road Euclid, Ohio 44121 Cust 31, 1959 easant, PA Karen Louise audren: Alexander David, Vincent Michael, as James, Sarah Irene, Zachary Thomas ry's Preparatory d Lake, Michigan, 1977 arroll University Iniversity Heights, OH B.S. (Biology), 1981 Philadelphia College of Osteopathic Medicine Philadelphia, PA 0.0., 1985 ake I rie College of Osteopathic Medicine

Erie, PA

Masters of Medical Education, 2019

Pediatrics

Resident

Devi Juaveli D.O.

Cleveland, OH Mayfield Heights, OH

em

Mayfield Heights, O

Ohio University Coll Osteopathic Medicin

University of Illinois

University Hospitals Medical Center

Rainbow Babies &

SUSAN MARIE RATAY, DO AOA/ACOFP#: 184475 Ohio State License #34.011399

Personal Address

7061 Cobblestone Lane Mentor, Ohio 44060 (330)990-5423 (cell)

Susan.borisuk@med.lecom.edu; Susan.Ratay@UHhospitals.org

Work Addresses

Administrative/ Medical Education University Hospitals Regional Hospitals 27100 Chardon Road

nd Heights, Ohio 44143

Curriculum Vitae for Robert Bradley Truax, DO

#### Personal

Birth date: 31 August 1971

Childhood home: Chagrin Falls, OH

Current Address: 17730 Lost Trail, Chagrin Falls, OH 44023

E-mail: robert.truax@uhhospitals.org

Phone: 216-844-6533 Cell: 440-567-9567

#### **Current Job Description**

1) Associate Professor, Department of Osteopathic Manipulative Medicine, Ohio University 2016 Heritage College of Osteopathic Medicine (Cleveland), affiliated with the Cleveland Clinic. Teaching 1st and 2nd year Osteopathic medical students the principles of Osteopathic Medicine and Osteopathic Manipulative Treatments

2) Director, Osteopathic Sports Rehabilitation Clinic located in the Connor Integrative Health Network of the University Hospitals Case Medical Center

Christopher Tangen, D.O.

WORK 27155 Chardon Rd. Suite 106 8231 Beacon Place Cleveland, OH 44103 Richmond Heights, OH 44143 (217) 840-4772 (cell) (440) 585-7146 Christopher. Tangen@UHHospitals.org christangen@gmail.com

**EDUCATION** 

Des Moines University, Des Moines, Iowa Doctor of Osteopathic Medicine August 2001 through May 2005

Miami University, Oxford, Ohio B.A. in Microbiology August 1997 through May 2001

POSTGRADUATE EDUCATION

Primary Care Sports Medicine Fellowship

Two-year ACGME/AOA dually accredited program University Hospitals Case Medical Center/ Rainbow Babies and Children's Hospital Cleveland, Ohio July 2008 through June 2010

Family Medicine Internship / Residency University Hospitals Case Medical Center Cleveland, Ohio June 2005 through June 2008

**CLINICAL EXPERIENCE** 

Associate Medical Team Physician, Cleveland Browns Cleveland, OH May 2014- Current

Medical Director, Sports Medicine University Hospitals Regional Hospitals Richmond Heights and Bedford, OH Sept 2010- Current

5, 2005

30, 2006

hoga Falls, OH

. - Psychology

ksville, MO: D.O. - Doctor of

Medicine: Assisted in

atients in the OMM clinic (July

t Bragg, NC (1999-2000) t Bragg, NC (2000-2002) OH (July 2006 - June 2007)

#### OSTEOPATHIC PROGRAM PERSONNEL 5A.

ARE ANY OSTEOPATHIC FACULTY MEMBERS, INCLUDING CORE OSTEOPATHIC FACULTY MEMBERS AND THE DIRECTOR OF OSTEOPATHIC EDUCATION, SHARED WITH ANOTHER PROGRAM(S) WITH OSTEOPATHIC RECOGNITION? ARE ANY OSTEOPATHIC FACULTY MEMBERS, INCLUDING CORE OSTEOPATHIC FACULTY MEMBERS AND THE DIRECTOR OF OSTEOPATHIC EDUCATION, SHARED WITH ANOTHER PROGRAM(S) WITH OSTEOPATHIC RECOGNITION?

# Yes.

A. LIST THE OSTEOPATHIC FACULTY MEMBERS (INCLUDING THE CORE FACULTY MEMBERS AND DIRECTOR OF OSTEOPATHIC EDUCATION) SHARED WITH OTHER PROGRAMS WITH OSTEOPATHIC RECOGNITION, AND LIST THE APPLICABLE PROGRAM(S).

Osteopathic Faculty Member	Program and Sponsoring Institution
Susan Ratay, DO, MS	Director of Osteopathic Education,
	University Hospitals Osteopathic Consortium
Christopher Tangen, DO	Program Director, Traditional Rotating Internship,
	Program Director, ACGME-accredited Transitional Year
	Program,
	Medical Director, Sports Medicine,
	University Hospitals Regional Hospitals
Robert Truax, DO	Clinical Faculty and Assistant Professor, Family Medicine
	Residency Program,
	Director, Osteopathic Sports Rehabilitation Clinic, Connor
	Integrative Health Network,
	University Hospitals Cleveland Medical Center

#### OSTEOPATHIC PROGRAM PERSONNEL 5B.

ARE ANY OSTEOPATHIC FACULTY MEMBERS, INCLUDING CORE OSTEOPATHIC FACULTY MEMBERS AND THE DIRECTOR OF OSTEOPATHIC EDUCATION, SHARED WITH ANOTHER PROGRAM(S) WITH OSTEOPATHIC RECOGNITION? ARE ANY OSTEOPATHIC FACULTY MEMBERS, INCLUDING CORE OSTEOPATHIC FACULTY MEMBERS AND THE DIRECTOR OF OSTEOPATHIC EDUCATION, SHARED WITH ANOTHER PROGRAM(S) WITH OSTEOPATHIC RECOGNITION?

Yes.

B. DESCRIBE HOW THE OSTEOPATHIC FACULTY MEMBERS LISTED IN THE TABLE ABOVE WILL HAVE THEIR TIME DIVIDED BETWEEN EACH PROGRAM AND PARTICIPATING SITE WITH OVERSIGHT MAINTAINED, SO AS NOT TO COMPROMISE THE OSTEOPATHIC EDUCATION OF THE DESIGNATED OSTEOPATHIC RESIDENTS IN THESE PROGRAMS.

- ► The faculty listed participate in various workshops, grand rounds, journal clubs, other didactics, and scholarly work that are scheduled throughout the year.
- In some cases, these activities are shared by other services but do not conflict.

#### OSTEOPATHIC EDUCATION PROGRAM 6.A.

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO A. PATIENT CARE AND PROCEDURAL SKILLS.

- ► Teaching Methods: Demonstrate patient care skills to:
  - Recognize entire clinical context. Use relationship b/w structure and function.
  - ► Effectively treat and provide medical care that incorporates osteopathic philosophy.
  - Demonstrate caring attitude, mindful of cultural sensitivities and patient apprehension.
  - Diagnose and document somatic dysfunction and its treatment.
  - Complete an osteopathic structural exam. Direct and indirect OMT techniques: HV/LA, articulatory, ME, SCS, MFR, Still Technique and/or OCMM, etc.
  - Apply OMT in patient care setting that will benefit allergic patient.
  - Provide health care services expected of an allergy/immunologist that incorporates patient care consistent with osteopathic philosophy.



## OSTEOPATHIC EDUCATION PROGRAM 6.A (CONTINUED).

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO <u>A. PATIENT CARE AND PROCEDURAL SKILLS</u> (CONTINUED).

- ► Teaching Methods: Demonstrate ability to:
  - ► Incorporate literature and research that integrate osteopathic tenets into clinical decision-making.
  - ► Critically evaluate methods of osteopathic clinical practice, integrate evidence-based OPP into patient care, show understanding of research methods, and improve patient care practices as related to field of A/I.
  - ► Treat patients in manner consistent w/ most up-to-date information on diagnostic and therapeutic effectiveness related to OPP.
  - ► Perform self-evaluations of osteopathic practice patterns and practice-based improvement activities using systematic methodology.
  - Adult and Pediatric Allergy and Immunology Fellowship 2019-2020 Manual + Quick Reference
  - Ohio University Heritage College of Osteopathic Medicine's OMM Quick Card: A publication of the CORE Osteopathic Principles and Practices Committee

#### The Hostoffer Writing Commandments

- There are no days or nights off.
- · Have intense commitment to the project.
- Communicate level of progress with project frequently.
- · Don't tell me. Show me.
- Be deadline driven.
- · Critical and independent thinking is expected.
- · Pay attention to detail in terms of the project.
- · If any of the rules are broken, the project will be given to someone else.
- Do not assume any data or instruction.
- No guestion is unreasonable.
- · Keep thoughts of the project singular and to the point without deviation.
- When you need help, ask. DO NOT STOP.



DR. ANDREW TAYLOR STILL.

Out Rotations/Primary Attendings: Pediatric and Adult Rheumatology/ Various (MetroHealth)

Vocal Cord Dysfunction (VCD)/ Dr. Nicole Maronian (UH CMC)
Flow Cytometry/ Dr. Howard Meyerson (UH CMC)
Adult Pulmonary/ Dr. Robert Schitz (UH CMC)
Adult Ear, Nose, and Throat (ENT)/ Dr. Kenneth Rodriguez (UH CMC) Peds
ENT/ Dr. Otteson, Dr. Shah (UH CMC Bolwell Ste 3300A)
Peds Pulm/ Dr. Kate Wessell (UH RBCH)
Peds Dermatology/ Dr. Lisa Gellis (Metro Health)
Adult Derm/ Various (UH CMC)

#### Schedule: Curriculum Map

YEAR	1	2
TIME	8:00AM	8:30AM
M	Journal Club	Journal Club
Т	Cluster of Differentiation/Interleukin (CD/IL) Club	Practice Parameters
W	Dr. Hostoffer's "one-liners"/Morbidity & Mortality (M&M)	Board Review
R	Middleton's Allergy reading	Middleton's Allergy reading
F	Dr. Hostoffer's Lectures	Dr. Hostoffer's Lectures

YEAR 1	JULY	DECEMBER	JUNE			
Clinicals	Allergy practice skills	Learning U	imits of practice			
Clinicals Logs Didactics Asynchronous earning	Allergy office	Out	rotations			
Clinicals  Logs  Didactics  Asynchronous learning	Finish patient logs (first 6 month	s)	Market Ma			
	Finish procedure logs (first 6 mont	hs)				
Clinicals  Logs  Didactics  Asynchronous learning	CD/IL Club	Practic	e parameters			
	Mide	delton's Allergy	10			
	One-liners					
	Formal lectures					
	Journal Club					
	OMM lecture (/month)					
Į.	Osteopathic lecture series (9)					
J	A/I/Pulmonary conferences (every other month)					
YEAR 1 Clinicals Logs Didactics Asynchronous learning Workshops	ACAAICOLA (https://www.youtube.com/user/ACAAICOLA/videos?disable_poly					
	Scholar Series (http://www.	ooanet.org/aws/OOSA/	pt/sp/scholar7)			
Clinicals  Logs  Didactics  Asynchronous learning	Anaphylaxis					
	Weed walk					
	Pollen course					
	Mixing course					
	The second secon					

# MANUAL + QUICK REFERENCE

#### Osteopathic Component

Diagnosis Codes(ICD-10):

m99.00 segmental and somatic dysfunction of head m99.01 segmental and somatic dysfunction of neck m99.02 segmental and somatic dysfunction of thorax m99.03 segmental and somatic dysfunction of lumbar m99.04 segmental and somatic dysfunction of sacrum m99.05 segmental and somatic dysfunction of pelvis m99.06 segmental and somatic dysfunction of upper extrem m99.07 segmental and somatic dysfunction of lower extrem m99.08 segmental and somatic dysfunction of ribs m99.09 segmental and somatic dysfunction of abdomen/oth

Procedure Codes: 98925 (1-2 regions)

Organ/System	Parasympathetic	Sympathetic	Ant. Chapman's	Post Chapman's
EENT	Cr Nerves (III, VII, IX, X)	T1-T4	T1-4, 2nd	Suboccipital
Heart	Vagus (CN X)	T1-T4	T1-4 on L	T3 sp process
Respiratory	Vagus (CN X)	T2-T7	3rd & 4th ICS	T3-5 sp process
Esophagus	Vagus (CN X)	T2-T8	***	
Foregut	Vagus (CN X)	T5-T9 (Greater Splanchnic)	474	***
Stornach	Vagus (CN X)	T5-T9 (Greater Splanchnic)	5th-6th ICS	T6-7 on L
Liver	Vagus (CN X)	T5-T9 (Greater Splanchnic)	Rib 5 on R	T5-6
Spleen	Vagus (CN X)	T5-T9 (Greater Splanchnic)	Rib 6 on R	T6
Pancreas	Vagus (CN X)	T5-T9 (Greater Splanchnic)	Rib 7 on L	T7
Midgut	Vagus (CN X)	Thoracic Splanchnics (Lesser)	Rib 7 on R	T7
Small Intestine	Vagus (CN X)	T9-T11 (Lesser Splanchnics)	414	***
Appendix		T12	Tip of 12th Rib	T11-12 on R

## OSTEOPATHIC EDUCATION PROGRAM 6.A (CONTINUED).

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO <u>A. PATIENT CARE AND PROCEDURAL SKILLS</u> (CONTINUED).

- Assessment Methods
  - Complement bi-annual review w/...
    - Direct observation
    - Chart review
    - Procedure logs
  - Mid-year and end-of-year evaluations
    - Structural examinations
    - OMT under supervision of osteopathic attending physician

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO B. MEDICAL KNOWLEDGE.

- ► Teaching Methods: Understand fundamental concepts involving OPP at beginning of training program. Over course of Fellowship, gain greater depth of medical knowledge in integrating osteopathic concepts in A/I.
  - Demonstrate ability to:
    - Apply integrative knowledge of accepted standards of osteopathic clinical practice and/or OPP
    - Demonstrate competency in understanding and application of OPP to A/I patient.
    - Demonstrate treatment of person rather than symptoms.
    - Demonstrate understanding of somato-visceral relationships and role of musculoskeletal system in disease as it relates to integumentary system.
    - Perform critical appraisals of literature related to OPP, especially studies that incorporate osteopathic concepts in A/I.

## OSTEOPATHIC EDUCATION PROGRAM 6.B (CONTINUED).

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO B. MEDICAL KNOWLEDGE (CONTINUED).

- Teaching methods:
  - Didactic and workshop training
    - Medical knowledge in OPP/OMT presented and evaluated
    - Primary ambulatory training site
      - Weekly Allergy-Immunology AOA Board review
      - POMT Modules
    - UH Regional Hospitals campuses.
      - Didactic-workshop training for ONMM Grand Rounds
      - Monthly ONMM Core Faculty Didactic-Workshop Series

#### OSTEOPATHIC EDUCATION PROGRAM 6.B (CONTINUED).

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO B. MEDICAL KNOWLEDGE (CONTINUED).

- ► Teaching Methods: Multiple opportunities for training to improve medical knowledge incorporating OPP and specifically, osteopathic concepts in A/I
  - Weekly A/I AOA Board review
    - Section on OPP-focused questions
    - ▶ 1/3 of AOA A/I Boards pertain to integration of osteopathic concepts in A/I
  - ► Monthly Osteopathic Neuromusculoskeletal Medicine (ONMM) Core Faculty Didactic-Workshop Series expect Fellows:
    - Understand fundamental knowledge of OMT modality and perform relevant techniques
    - Perform required elements of structural exam
    - Complete pertinent osteopathic-focused board examination questions
  - ONMM Grand Rounds
    - ▶ 1<sup>st</sup> and 3<sup>rd</sup> Friday/month during academic year
    - ▶ Participation when topics pertinent to A/I. Examples: Sinusitis, Pneumonia, Asthma, etc.
  - Quarterly POMT Modules, e.g., Chapman's Reflexes, chest, otitis media, URI, CF, etc.



# **UHOC Osteopathic Conference**

Management Services Center - Media Room 3605 Warrensville Center Road Shaker Heights, Ohio 44122 Friday, May 17, 2019

7:30am – 8:30am: "Low Back Pain", presented by John Weston, DO, Lake Erie College of Osteopathic Medicine, Erie, Pennsylvania

8:30am - 9:30am: "Compassion, fatigue, trauma and burnout", presented by Jill Fulton, LISW, Manager, Employee Assistance, University Hospitals

9:30am - 10:45am: Grand Rounds: "Utilizing OMT to Manage Low Back Pain" presented by University Hospitals, St. John Medical Center Emergency Medicine PGY-4's, Katie Baker, DO, Magdy Eskander, DO, Erin Fenoff, DO, Andrew Gaydos, DO, James Johns, DO, Alyson Kracke,

10:45am - 11:15am: Journal Club: p

(https://uhcommunity.uhhospitals.org/CoreLibrary/)

ed control trial to determine the effectiveness and il effects of spinal manipulation and spinal i compared to each other and a sham condition in h chronic low back pain: Study protocol for The dy

Russ, Masato Nakazawa. Christopher R. France, Stevan Walkowski, Timothy D. Law. Megan to. Samuel Lietkam, James Odenthal, Daniel Corcos, Simeon Hain, Betty Sindelar, Robert J. s. S. Thomas

2018-07-01, Volume 70, Pages 41-52, Copyright © 2018 Elsevier Inc.

is one of the most common reasons for seeking medical care. Manipulative therapies tent for LBP. Few studies have compared the effectiveness of different types of es. Moreover, the physiologic mechanisms underlying these treatments are not fully be present the study protocol for The R esearching the E ffectiveness of L umbar I

# teopathic Therapy in Cystic rosis Board Review





- Amy Resitar, DO
- Robert Hostoffer, DO,FACOP, FAAP

edited by Eric Hegybeli, DO, FACOP



- A 15 year old patient with cystic fibrosis pre your office with a productive cough. The mu thick. You consult pediatric pulmonary. Whi you decide to OMT. Which procedure would most help:
  - A. Rib raising
  - B. Doming of the diaphragm
  - C. Miller's Lymphatic pump
  - D. Anterior cervical fascia release
  - E. Galbraeth maneuver



#### OSTEOPATHIC EDUCATION PROGRAM 6.B (CONTINUED).

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO <u>B. MEDICAL KNOWLEDGE (CONTINUED).</u>

- Assessment Methods
  - Documentation of medical knowledge in OPP application
    - ► Rotation, mid-year, and annual evaluations
    - ▶ Portfolio
  - Evaluated on each session for OPP/OMT didactic training:
    - ► Monthly ONMM Core Faculty Didactic-Workshop Series
    - ONMM Grand Rounds
    - ► Quarterly **POMT** Modules
    - Weekly A/I AOA Board Review
    - ► CAOM Annual OMM Seminar
  - Didactic session performance evaluation
    - Mid-year and annual evaluations
    - ► Board-like questions
    - ► Identifying core model for utilizing OPP (Postural/Structural, Respiratory-Circulatory, Neurologic, Metabolic, Behavioral)

#### OSTEOPATHIC EDUCATION PROGRAM 6.C.

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO C. PRACTICE-BASED LEARNING AND IMPROVEMENT

- ► Teaching Methods: Complete osteopathic-focused scholarly projects during Fellowship:
  - Drs. Hostoffer and Jhaveri assure accurate application of osteopathic concepts to A/I
  - Longitudinal rotations with Drs. Hostoffer and Jhaveri, where clinical encounters will be discussed to identify evidenced-based OPP/OMT applications
  - ► A/I OMT Module
    - Presentation
    - Handout to highlight key concepts and instructions for identified OMT techniques
    - Evaluation tool with board-like questions.
  - Osteopathic-Focused Research Project
    - Group project, with each Fellow actively participating.
    - Recently submitted "Asthma: The Osteopathic Modular Approach"

## OSTEOPATHIC EDUCATION PROGRAM 6.C (CONTINUED).

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO C. PRACTICE-BASED LEARNING AND IMPROVEMENT (CONTINUED).

- Teaching Methods:
  - Weekly A/I Journal Club with monthly focus on topic that integrates OPP in A/I
  - Weekly A/I AOA Board Review
    - Senior A/I Fellow(s) lead, presenting all questions and reviewing responses
    - OPP-focused questions
  - Weekly application of Osteopathic Models of Patient Care to mechanisms and clinical significance of Clusters of Differentiation (CDs) /Interleukins (ILs)
  - Weekly "one-liners" (clinical vignettes) with at least monthly OPP focus
  - Self-study encouraged by A/I training w/in primary ambulatory training site
  - Libraries
    - Access to UH Medical, UH Core, and LECOM Core
    - Also Site 1 Learning Center, UH Regional Hospitals, <u>Cleveland Health Sciences Library</u>, and <u>LECOM Learning</u>
       <u>Resource Center</u>, which offer OPP resources to support osteopathic-focused training and scholarly activity.

C	n			
D	ate		o Allerg ted: 2/1 n Shan	
	Re	feren	ce:	"Osteopathic ly
	Af	thors filiati ecialt	ons/	Lisa M. Hodge *Osteopathic Resear *Department of Mol
	Qu Su	ick n na		Objective: 1) support the use and immune sy mechanisms by
		UGKAM		Introduction • Pneum

#### d for generations on the approx

lobert Orenstein, DO ditor in Chief

Jilow - Galair Galair	he Journal of the American Osteopathic	Association
Reference:	"Osteopathic lymphatic pump techniques pear Dr. Orenstein, pneumonia" in Int J Osteopath Med. 2012	
Authors Affiliations/ Specialt es:	Lisa M. Hodge, Ph.D.  *Osteopathic Research Center, University of North Texas onsidered for publication as Reviews in 1  *Department of Molecular Biology University of North Texas onsidered for publication as Reviews in 1  *Department of Molecular Biology University of North Temerican Osteopathic Association. Relevational Relevation of North Temerican Osteopathic Association.	Musculoskele ant practice
OSTEOPATHIC EDUCATION PROGRAM 6.6. 750	Objective: 1) To highlight clinical and batternal medicine, otorhinolaryngology, as support the use of lymphatic pump technicitiated was at University Hospitals Cleve and immune systems and treat pneumonia mechanisms by which LPT benefits patier are been met.  Introduction  • Pneumonia contributes to morbidiou have any questions.  resistance increasing. Immune sur immune system and release of processors.	the manuscr
UCATION	chemokines, reactive oxygen and orresponding author: critical for protection from pathoghan Shan Wu, DO  Intrinsic physiological factors factors factors and Immunological lymphatic vessels  i.e. skeletal muscle contrareferred Mailing Address: 5915 Landerbr	re N
	External forces also increase lympreferred Email Address: swu815@gmail.     i.e. exercise, passive limb@ffice Telephone Number: 216-381-3333     manipulative medicine tecax Number: 216-381-3002      Restrictions of lymph circulation for the care of paties.	con
OSTEOPA	Osteopathic goal of LPT is to enh indication to treat infection and eosis and management     Via thoracic cage, abdom and legs (pedal pumps)  Few published clinical studies examples a whole person	Pedi Boar
	infection and immunity  o i.e. Early studies in human isolated from the boo immunity in both healthy infectious disease (1932,  dy, and spirit with the	
	Lymphatic pump techniques enhance tl	
	Recent animal studies have shown. lymph into the lymphatic system attis. leukocyte output	1
	Study #1 (Hodge et al, 2010)     Model: Dog after surgery	N. N.

#### Flexion and Extension



# **Occipital-Atlantal Cervical High Velocity Low Amplitude**

• The patient is supine. Place your hand on the ramus of the mandible with fingers extending downward toward the chin. Apply a sudden increase in the rotation of the neck by

## **Pediatric Cervical OMT Module Board Review**





- · American College of Osteopathic Pediatricians
- Robert Hostoffer. DO, FACOP, FAAP

edited by Eric Hegybeli, DO, FACOP

#### OSTEOPATHIC EDUCATION PROGRAM 6.C (CONTINUED).

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO C. PRACTICE-BASED LEARNING AND IMPROVEMENT (CONTINUED).

- Assessment Methods:
  - Rotation, mid-year, and year-end evaluations document OPP application
    - Practice-based learning
    - Improvement domain
  - Quality improvement
    - Clinical setting OPP application
    - Critical appraisal to determine benefit of OMT in patient care setting.

#### OSTEOPATHIC EDUCATION PROGRAM 6.D.

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO D. INTERPERSONAL AND COMMUNICATIONS SKILLS

- ► Teaching Methods: Application of interpersonal and communication skills are critical components of patient-centered approach, integrated into osteopathic medicine.
  - Demonstrate:
    - Interpersonal and communication skill to effectively discuss osteopathic concepts and their role in patient care
    - Appropriate verbal and non-verbal skills
  - Integrate OPP into interpersonal skills and communication skills
    - ALL inpatient consults and ambulatory clinics
    - Evaluated by osteopathic attendings
  - Explain benefits and risks of OMT when applied in clinical setting.

## OSTEOPATHIC EDUCATION PROGRAM 6.D (CONTINUED).

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO <u>D. INTERPERSONAL AND COMMUNICATIONS SKILLS</u> (CONTINUED).

- Assessment Methods:
  - Rotation, mid-year and year-end evaluations
    - Documentation on interpersonal and communications skills
    - Reflect patient-centered focus of osteopathic profession.
  - Also assessed by direct supervision
  - "Patient Assessment Form" and "Global Evaluation Form"
    - Confidential
    - Focused on core competencies, especially interpersonal skills, communication, and professionalism

_								_
A	lergy-l	nmunology Fellow Name: Date:						
OS	TEOP	THIC RECOGNITION AI FELLOW OBSERVATION & COMPETENCY AS	SESSI	MENT (RO&CA)				
nstr		or Evaluator:		Market Aller Anna Control (1)				
he		valuation is a brief (5-10 minute) spot check of fellow's skills followed by immediate feedback	dk. Direct	ly observe a focused				
truc		n including Special Testing needs for diagnosis, an osteopathic dysfunction diagnosis, a pro						
ech esid		reat the diagnosis, and recheck for improvement of dysfunction. Complete the assessment diately after the observation. Base your evaluation on only 1 observation, not on a composit						
nece		bserve and rate all these competencies during the evaluation.		ACTION A TO THAT				
net		pr Learner:						
You.		uire to minimally have one ROCA performed twice a year by one of the ONMM Core Facult	y (Dr. Pa	arnell, Ratay,				
Row		en, or Kozcab) or Drs. Hostoffer and Jhaveri, the program's core OR faculty to fulfill require						
Oste or y		a cognition Training Program. Please obtain a copy for your personal records and provide your personal recor	our Coord	tinator with a copy				
- 4			AWA -	and arranged to the state of th				
Pat		psis (for this observation):	NA	not assessed LEVEL				
Did Ted	actic/Wks	p Inpatient Outpatient Consult sed: ST MFR ME HVLA CS Art/Still Cranial Other		ovice				
Boo		sed: ST MFR ME HVLA CS Art/Still Cranial Other Treated: Cranium C-Spine T-Spine T-Cage L-Spine	523.700	termediate				
0.00		Pelvis Sacrum Upper Ext Lower Ext Viscera		ompetent dvanced				
	9			xceptional				
-	$\mathbf{\Sigma}$	PATIENT CARE	1					
mined		Aills: gathers essential and accurate information that identifies impairments/diagnoses and	N/A					
funi	第	ection pasient; efficient	V.0.574.	University He	ospitals			
	9			Oniversity no	ospitais			
Car	2	n Skills: proficient, thorough, elicits subtle findings; sensitive to patient comfort and modesty	N/A	7				
Foo	<u>a</u>	check all that apply		Global Evaluation F	Form			
STI	R	Mental Status exam Mobility/gait . EXAM/ROM: Cranium C-Spine T-Spine T-Cage L-Spine				uchin Drawen	_	
1000		Pelvis Saorum Upper Ext Lower Ext Viscera		University Hospitals Allergy Immunology Fellowship Program				
Oth	BITAST	Performed Y N		CASH Shows				
-	⋖			OW NAME:		DATE		
Tec	ء ک	Ills: proficient; safe; minimizes patient risk or discomfort	N/A	INRECTION: Please complete this confidential evaluation to the best	of you shillty t	n allow the fallow to	improve This wil	ar :
Tec		erved:		ecome a permanent part of their record.	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 20011 212 22 22 21	7.11.0.10.11.11.0.11.1	
-		PROFESSIONALISM		a source of particular particle and it is source.				
linfo	5	sent obtains informed consent including explanation of risks, benefits, and alternate methods of to procedures		Medical Knowledge	NEED TO	MEET	EXCEED	Ti
trea					IMPROVE	COMPETENCY	COMPETENCY	
20			200	, und of Knowledge	1	1.5.5.00.51.50.50		$^{\dagger}$
Ser tole		monstrates sensitivity and responsiveness to patient's culture, age, gender, disability, and am/technique	N/A	bility to apply knowledge to patient care				T
		INTERPERSONAL AND COMMUNICATION SKILLS		influsiasm for improving knowledge base				T
	$\odot$			bility to critically evaluate medical evaluation				т
Ret	ш.	Management forms positive relationships and effectively communicates with patients the technique ucts patient in how to best collaborate with treatment. Discussed post-treatment recommendations	N/A	omments (include strengths and Areas for improvement)				Т
and	3	18,						_
	0	SYSTEMS-BASED PRACTICE						
			700	a tient Care	NEED TO	MEET	EXCEED	17
can		of resources: develops cost effective diagnostic or treatment or discharge plan of	N/A		IMPROVE	COMPETENCY	COMPETENCY	-1
		PRACTICE BASED LEARNING AND IMPROVEMENT		story taking/presenting skills	11100110011001		ACCESSION OF THE STATE OF THE S	Т
				xamination Skills				1
Tea Title		<ul> <li>a: facilitates the learning of students and other health care professionals resentation observation:</li> </ul>	N/A	bility to appropriately order / interpret diagnostic studies				Т
_			-	Enical problem-solving skills				Т
ST-S NVS		MFR- Myofascial Release, ME-Muscle Energy, HVLA- High-velocity Low- Amplitude, CS- counterstain, ar / Still, Cr- Cranial, Other [BLT-balanced ligamentous tension, Vis-Visceral, FPR-Facilitated Positiona	Release	bility to develop and carry-out patient management plans				T
		Areas Needing Improvement: For scores of 1, comments must include areas for reme		Same Prints				I
Both		and fellow should rate their satisfaction with the value and use of this observation and asse		omments (include strengths and Areas for improvement)				
UCI		and remain and the stress satisfaction with the value and use of this observation and asset	- STREET				-	1
lt te	nding Si	nature: Satisfaction Rating: (Low) 1 2 3 4 5	(High)					
N F	How's S	gnature: Satisfaction Rating: (Low) 1 2 3 4	5 (High	nterpersonal and	NEED TO	MEET	EXCEED	1
		Antitro-attribute musical magnification (2) Ext. Collection		ommunication Skills	IMPROVE	COMPETENCY	COMPETENCY	
				bility to communicate with physicians and other members of the health care team				I

#### OSTEOPATHIC EDUCATION PROGRAM 6.E.

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO E. PROFESSIONALISM.

- Teaching Methods: Application of OPP into professionalism competency demonstrates integration of behavioral and social sciences.
  - Demonstrate awareness of issues of culture, religion, age, gender, sexual orientation, and mental and physical disabilities, as they may influence patient's perception of touch w/in context of OPP
  - Treat terminally ill w/ compassion in management of pain, palliative care, appropriate touch, and preparation for death
  - Demonstrate increased understanding of conflicts of interest inherent to osteopathic clinical practice and appropriate responses to societal, community, and health care industry pressures
  - Utilize caring, compassionate behavior and appropriate touch w/ patients, as related to their specialty areas.
  - When clinically indicated, under supervision of an osteopathic attending and consent provided by the patient, osteopathic structural examinations and OMT in all clinical settings.
  - ▶ OPP integrated into professionalism in all clinical training sites, including ambulatory and inpatient settings, and evaluated by osteopathic attendings when present.

## OSTEOPATHIC EDUCATION PROGRAM 6.E (CONTINUED).

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO <u>E. Professionalism (Continued).</u>

- Assessment Methods: Rotation, mid-year, and year-end evaluations
  - Documentation of professionalism
  - Expected competence for profession that has patient-centered focus.
  - "Patient Assessment Form" and "Global Evaluation Form"
    - Confidential
    - Focused on core competencies, especially interpersonal skills and communication and professionalism

	9.E					I get sati			
	EDUCATION PROGRAM 6.E	University Hospitals University Hospitals Allergy Immunology Fellowship Program							
	TION	Immunology Fellow Name	m Scoreca	Date ard					
	DUCA	tions: Professionalism is an expectation of every physician in in training and in practice. Please on all expectations were not met, met or exceeded.							
200			Adherence	Below Expectations	Me ets Expectations	Expec			
	OSTEOPATHIC	Club Attendance							
	OST	rence Attendance							
1						_			

valuation Completion

Non-Patient Care Requirements (surveys, E-mail, Pages, etc.)

Works well with others (how perceived)

#### PROFESSIONAL QUALITY OF LIFE SCALE (PROQOL)

# COMPASSION SATISFACTION AND COMPASSION FATIGUE (PROQOL) VERSION 5 (2009)

When you [help] people you have direct contact with their lives. As you may have found, your compassion for those you [help] can affect you in positive and negative ways. Below are some-questions about your experiences, both positive and negative, as a [helper]. Consider each of the following questions about you and your current work situation. Select the number that honestly reflects how frequently you experienced these things in the <u>last 30 days</u>.

I=Never	2=R	arely	3=Sometimes	4=Often	5=Very Often			
I. I am happy.  2. I am preoccupied  3. I get satisfaction for the same stade of the		from being others. d by und er work eparate ive at w have bee	I with more than one person I [help]. from being able to [help] people.					
Meets Expectations	Exceeds Expectations	[helper].  ause of the traumatic experiences of the people I [help].  experiencing the trauma of someone I have [helped].  istain me.  ow I am able to keep up with [helping] techniques and protocols.  ways wanted to be.  feel satisfied.  tuse of my work as a [helper].  ts and feelings about those I [help] and how I could help them.  because my case [work] load seems endless.  a difference through my work.						

#### OSTEOPATHIC EDUCATION PROGRAM 6.F.

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO F. SYSTEMS-BASED PRACTICE.

- Teaching Methods:
  - Integration of OPP involving system-based practice competency:
    - Demonstrate understanding of role of osteopathic clinical practice in health care delivery systems
    - Provide effective and qualitative osteopathic patient care w/in system
    - Practice cost-effective medicine
    - Advocate for quality osteopathic health care on behalf of their patients
    - Demonstrate understanding of cost benefit of OMT, including reimbursement and correct coding and billing processes.
  - Clinical application of OPP and OMT for A/I primarily in ambulatory setting.
    - ► Rotate longitudinally w/ supervision by Drs. Hostoffer and Jhaveri.
      - ► Core training site (Site 1)
      - ► UH Regional Hospitals-Richmond Medical Center (Consults)
      - ► UH Cleveland Medical Center (Consults)
    - ▶ Drs. Hostoffer and Jhaveri role-model and supervise application of osteopathic concepts in regards to current health care system.
  - Exposure to billing and coding procedures for OMT during didactics and in primary longitudinal ambulatory training sites.

### OSTEOPATHIC EDUCATION PROGRAM 6.F.

LIST TEACHING METHODS (E.G., DIDACTIC PRESENTATION/WORKSHOP, INPATIENT TEACHING ROUNDS, PRECEPTOR AMBULATORY CLINIC, SKILLS AND/OR SIMULATION LAB, ETC.) AND ASSESSMENT METHODS (E.G., ROTATION EVALUATIONS, MEDICAL RECORD REVIEW, OSCE; LOGS, PATIENT SURVEY, ETC.) USED TO INTEGRATE OPP INTO F. SYSTEMS-BASED PRACTICE (CONTINUED).

- Assessment Methods:
  - ► Rotation, mid-year, and end-of-year evaluations include documentation in systems-based practice, which is central to our patient-centered profession.
  - Quality Improvement tasks
    - Access OMT application through log tracking
    - Ensure patients are benefiting from OPP in clinical setting.
  - Required to track use of OMT in all clinical settings. EMR modifications requested to add additional tracking mechanism.

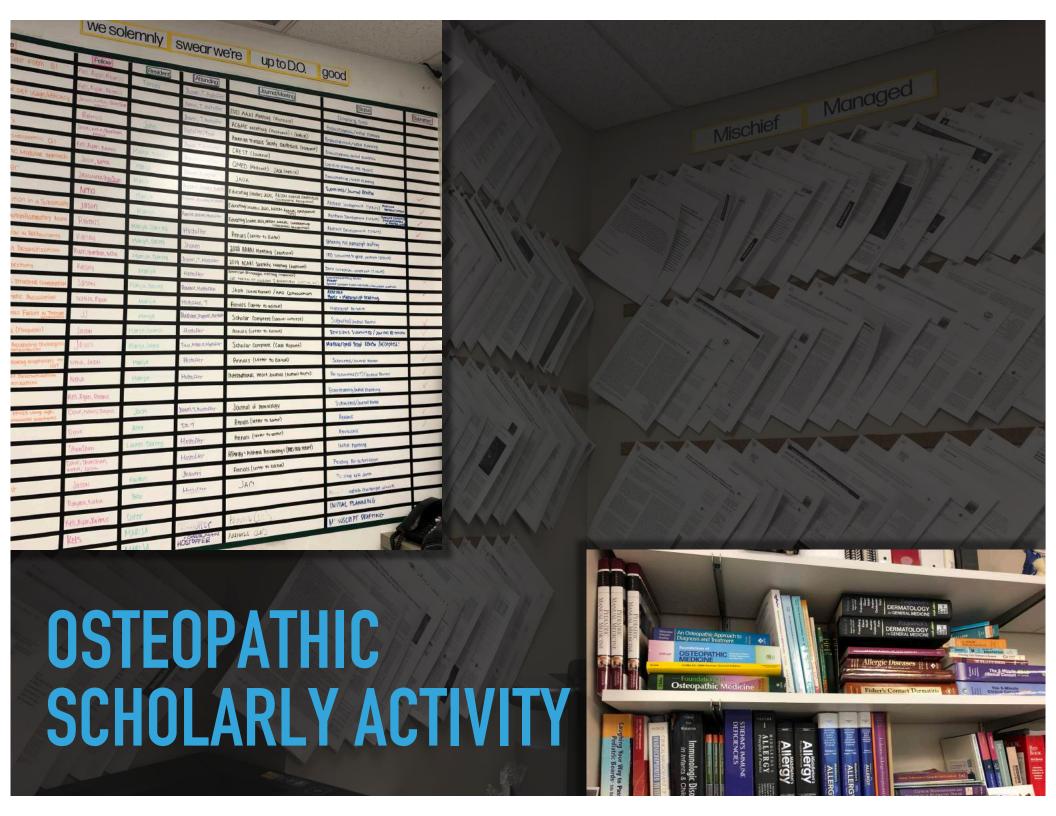
+ 0	ata o	Fellow	chin:						_				
1000				201									
0.040,000		Contractive State of the State of	Fellowship		0.0000000000000000000000000000000000000			Pat	ient Encounter				
HP	oced	ure Cor	npetency A	Assessment	t Date:								
1-	escri	be speci	fic concept	s on OMT To	echnique t	ypes and 5 N	lodels of Osteo	PT			DATE & TIM	ME	
-		OMT	400	2nd	2-4	TANK .	Commence	DOB			OV / NP		
non		OMI	1st	Zna	3rd	4th	Competency (Attending Ir	ACCOL	JNT#		SHER / HO	STOFFER / T	/ JHAVERI / SHOT
nni							(Attenuing in						
CEF Tis scle ofa: nte A MM				7		7 22		CPT	Description	CPT	Description	СРТ	Description
111			Х			X			New Patient	************	Pulmonary Function Testing Contd.	i wasansa	Injections
icle	Energ		Х			X		99201 99202		94664 J7665	DEMO OF PULMONARY DE MANNITOL CAPSULE	90657 90658	FLU VACCINE 5-35 MONTHS FLU VACCINE 3YRS & OLDER
ofa:	9	lease	х			X		99203	NP OUT LEVEL 3 30M	95004	Allergy Diagnostics SCRATCH TEST ##	Q2037	FLU VACCINE MEDICARE
nte	etraj			х		X		99204 99205		95024 95017	I.D. TESTS - ## SKIN TEST (ANY) VENOMS	G0008	ADMIN FLU MEDICARE IMMUNE ADMIN, 1 INJ
A	≥			Х		X			Established Patient			90471	
ANA	鬟	- 1		-	v	3		99211 99212		95018 95044	SKIN TEST (ANY) DRUGS ALLERGY PATCH TESTS	90472 90732	IMMUNE ADMIN, EACH ADDTL. PNEUMOCOCCAL, 23 VALENT
	占				Х	X		99213 99214		95180 J3301	RAPID DESENSITIZATIO TRIAMCINOLONE ACETON	90670 96401	PREVNAR INJECTION OF XOLAIR
ΜТ	<b>6</b>	5		X	k	X		99215	EP OUT LEVEL 5 40M	95076	61 MIN 2 HOURS INGESTION CHALLENGE	G0009	ADMIN PNEUMOVAX MEDICARE
200	出	- 0 - 0 0 <u>1</u> 2 0 0 0 0 0 0 0 0 0				400-440-000-000-000		99354 99355	PROLONGED PHYS SERVICE 1st HOUR PROLONGED PHYS SERVICE EACH ADDTL 30MINS	95079 31231	OVER 2 HOURS INGESTION CHALLENGE NASAL ENDOSCOPY, DIAGNOSTIC Allergy Injections	90744 90746	HEPATIS B VACCINE HEP B VACCINE ADULT
2-	aenti	y sites	of somatic of	dysfunction	to establis	sh diagnosis a	and demonstrat	99415		95115	IT- SINGLE W/O EXT	90716	CHICKENPOX VACCINE
nnic								99416	MIN	95117	IT - MULTIPLE W/O EXT	90632	HEP A VACCINE ADULT
mo			1st	2nd	3rd	4th	Competency	99241		95165	MULTIPLE ALLERGENIC	90633	HEP A VACC, PED/ADOL
ced	⋖		HELLE:				(Attending I	99242 99243		95145 95146	VENOM EXTRACT 1 VENO 2- VENOM	90634 86580	HEP A VACC, PED/ADOL TUBERCULIN SKIN TEST
277200	3						1400	99244 99245		95147 95148	3 VENOM EXTRACT 4 VENOMS	J1460 96372	GAMMASTAN/GAMMAGLOBULIN THER/PROPH/ DIAG INJECTION
TiT		16					7.1	94010	Pulmonary Function Testing	95149	5 VENOM EXTRACT	J1030	DEPO MEDROL 40 MG
D/	ш										OMT		
pit	<u>ں</u>	ase	X		1	X		94060 94640		98925 98926	OMT 1-2 REGIONS OMT 3-4 REGIONS	J1040 J3420	DEPO MEDROL 80 MG B12 DRUG, UP TO 1,000 MCG
ıs E	- 1	ge	х		1	X		94760 94761		98927 98928	OMT 5-6 REGIONS OMT 7-8 REGIONS	96070 94070	MANNITOL CHALLENGE MANNITOL PFT'S
ıs E ore			X		-	X		94620 95012		98929	OMT 9-10 REGIONS	J1956	LEVAQUIN 1 GM
nni	<u></u>		(8-6).			2000			Laboratory			J0171	EPINEPHRINE UP TO 1
	<u> </u>		х		2	X		36415 87880	VENIPUNCTURE RAPID STREP			90733 90707	MENINGOCOCCAL MMR
pul RA	쁘.	CLON		W-			400	87804	RAPID INFLUENZA, NASAL SWAB Vaccine Reporting			90703	TETANUS
IKA	S	SION					-	G8482	Influenza immunization administered or previously			J2357	XOLAIR 5 MG
rac			X			X		G8483	received Influenza immunization was not ordered or administered	1			
R/N Rai		A						4040F	for reasons documented by clinician  Pneumococcal vaccine administered or previously				
Rai			Х			v		Name of the last o	received (DODD), (IBD), (IBD)				
rac				Osteopath	ic Exam:								
ME													
ilat		5		☐ Osteopa	athic Manip	ulation perform	ned on the followi	ing region	ns:				
alat		IS							I ☐ Innominate ☐ Upper Extrer	mit. [	Lower Extremity		
nin								_ Sacra	i — ililonimate — Opper Extrer	ппсу 🗀	Lower Extremity		
hir				Rib	Cage U	isceral Oti	ner (describe):						
ICD.													
rac ME alat alat nin; ohr IER iph		mp		☑ I person	ally reviewe	ed and interpr	eted spirometry. s	skin tests	, patch tests, and all other proced	dures/te	ests performed today.		
Listole		ferd act			33	157	8 8		oratory studies, and/or other med		20 000		
						and the second second second second			DYN BRITAN (FREEDWYN) 등 사용이 되는 제 2000년 중요한 전략을 받는 것이다. (2000년 중요한 기술을 하는 것이다.	uloui 10	oor oo.		
				✓ I person	nally reviewe	ed/updated pa	tient's current me	edication	list				

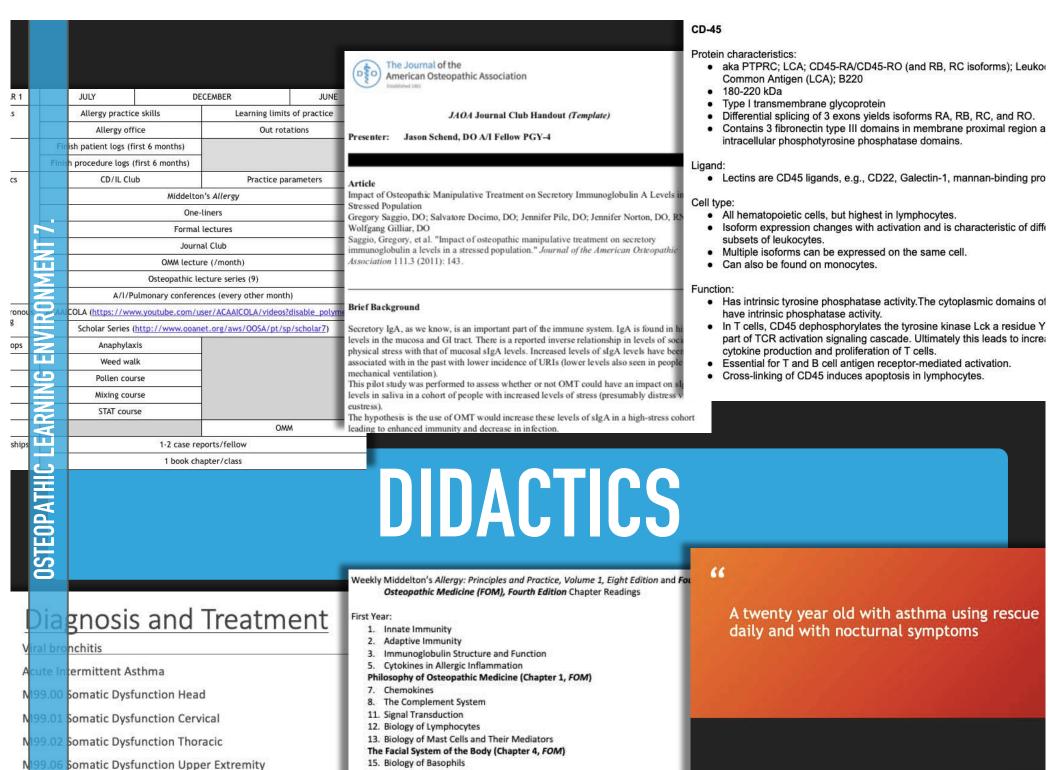
Learning Activity	Frequency and number of hours in duration	Type of osteopathic faculty member participation (e.g., lead, moderate, evaluate, observe, etc.)	Osteopathic faculty members, who will participate
Journal Club w/ osteopathic focus	Monthly; 30 min 1 hr.	Moderate	Dr. Hostoffer, Dr. Jhaveri
Clusters of differentiation (CDs) /Interleukins (ILs) with osteopathic focus	Weekly: 30 min 1 hr.	Moderate	Dr. Hostoffer
Osteopathic "one-liners" (case vignettes)	Monthly; 30 min 1 hr.	Moderate	Dr. Hostoffer

Learning Activity	Frequency and number of hours in duration	Type of osteopathic faculty member participation (e.g., lead, moderate, evaluate, observe, etc.)	Osteopathic faculty members, who will participate
American Academy of Osteopathy (AAO) Annual Convocation Lectures (DVD format)	Quarterly; 1 hr.	Moderate	Dr. Hostoffer, Dr. Jhaveri
Foundations of Osteopathic Medicine, 4e readinings	Monthly; 30 min. - 1 hr.	Moderate	Dr. Hostoffer
OMM Workshop (Directed by Paul Evans, DO)	Yearly; 1 business day (8-9 hrs.)	Lead	Dr. Hostoffer, Dr. Jhaveri

Learning Activity	Frequency and number of hours in duration	Type of osteopathic faculty member participation (e.g., lead, moderate, evaluate, observe, etc.)	Osteopathic faculty members, who will participate
Cleveland Academy of Osteopathic Medicine (CAOM) OMM Workshop	Yearly; 2 business days	Lead	Dr. Hostoffer, Dr. Jhaveri
Pediatric Osteopathic Manipulative Treatment (POMT) Modules	Quarterly; 30 min. – 1 hr.	Moderate	Dr. Hostoffer, Dr. Jhaveri
Assigned Reading Lists with Reflections	Yearly; variable	Moderate	Dr. Hostoffer, Dr. Jhaveri

Learning Activity	Frequency and number of hours	Type of osteopathic faculty member participation (e.g., lead,	Osteopathic faculty members, who will
	in duration	moderate, evaluate, observe, etc.)	participate
UHOC Workshops	Monthly; full afternoon (4-5 hrs.)	Observe	Dr. Hostoffer, Dr. Jhaveri
LECOM Fellow Lectures in Respiratory OMM	Monthly; full afternoon (4 hrs.)	Lead	Dr. Hostoffer
OMM Billing Lecture	Yearly; 1 hour	Moderate	Dr. Hostoffer





16. Biology of Eosinophils

17. Biology of Neutrophils

N199.08 Somatic Dysfunction Rib





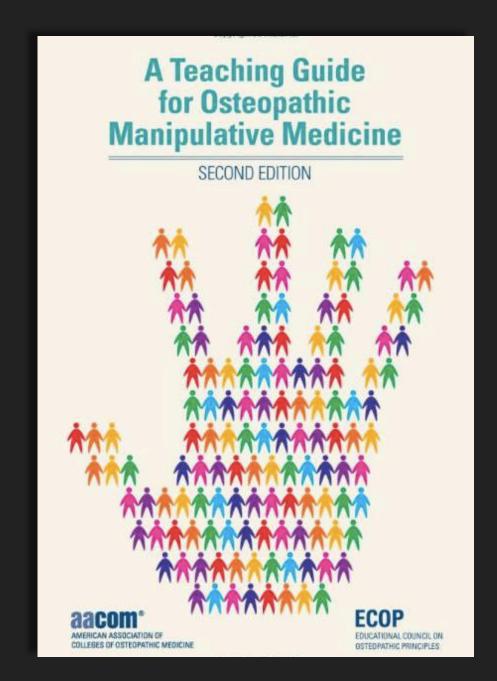
# LECOM ALLERGY/URT OMM

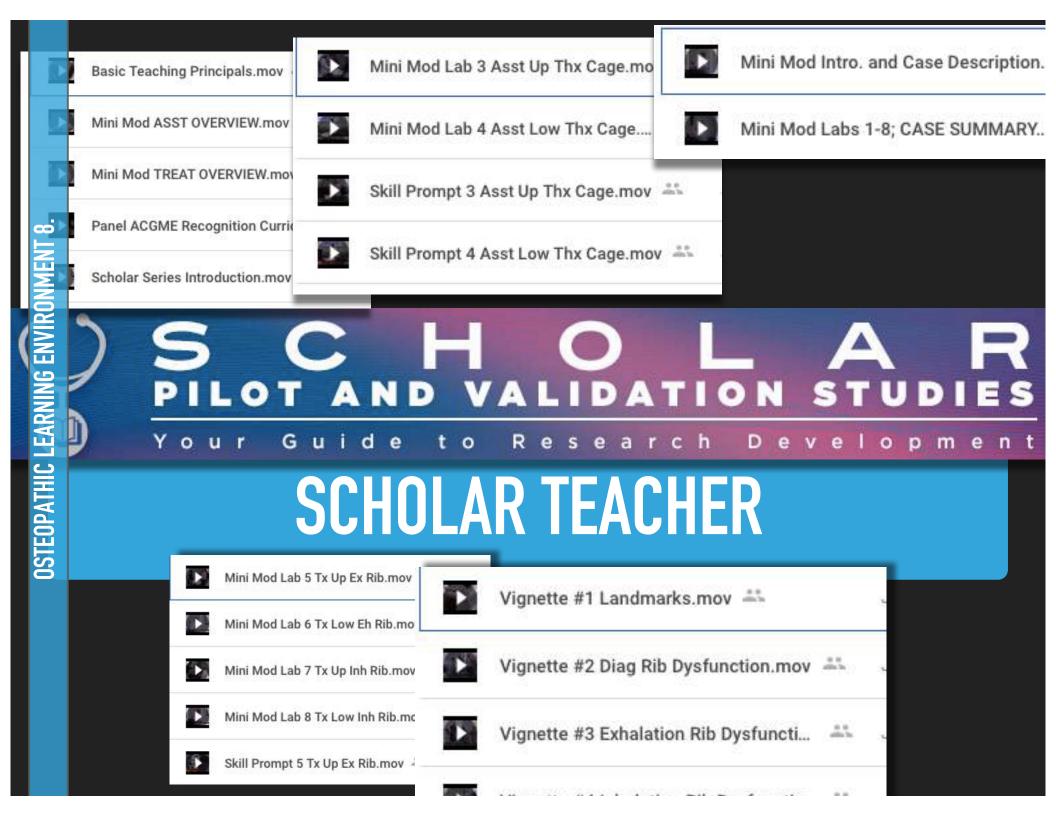


# **OSTEOPATHIC EDUCATION PROGRAM 8.**

# WHAT LEARNING ACTIVITIES ARE PROVIDED FOR OSTEOPATHIC FACULTY MEMBERS TO ADVANCE THEIR PROCEDURAL SKILLS ACQUISITION IN OMM?

- ▶ UH-LECOMT partnership
  - Year-long faculty development series centered around "Teaching and Learning" and "Scholarly Activity"
  - Integration of OPP
  - Core competencies, basis of each rotation evaluation.
- CAOM Annual OMT Seminar.
- ACOP program integration of OPP/OMT in the care of pediatric patient (POMT)
- Scholar Teacher videos developed to enhance OPP instruction
- ► Mid-Western University Costin Institute Scholars Program application of OPP in training programs (Dr. Jhaveri)
- ► <u>Masters of Medical Education</u> program via LECOM to develop a greater understanding of curriculum and teaching (Dr. Hostoffer).
- ► Additional resource: "A Teaching Guide for Osteopathic Manipulative Medicine, Second Edition" by AACOM/ECOP (Kendi Hensel, DO, PhD, FAAO and Tyler Cymet, DO, Executive Editors, 2018).







Be it known that the Trustees, President, and Faculty by virtue of the authority granted by the Commonwealth of Pennsylvania have conferred upon

Robert W. Hostoffer, Jr., D.O.

the degree of

Master of Science in Medical Education

in recognition of the satisfactory fulfillment of the requi In Wilness Whereof, we have hereunto affixed and subscribed our names this twenty-sixth

Marlen D. Moseo

Marlene D. Mosco Chair of the Board of Trustees

# MIDWESTERN UNIVERSITY

CHICAGO COLLEGE OF OSTEOPATHIC MEDICINE

This is to certify that

Devi Jhaveri, D.O., FAAP, FACOP

Has satisfactorily completed the requirements of the
Costin Institute for Osteopathic Medical Educators
And as such is deemed a
Costin Scholar



The scholar has demonstrated ability to teach, research and lead with distinction and has an understanding of the educational process. The scholar is committed to improving medical education at all levels.



September 17, 2016

Kathleen M. Cocapany Alexandre Rathleen H. Goeppinger, PMD.
President & CEO

Karen J. Nichols, D.O., M.A., MACOI Dean, Chicago College of Osteopathic Medicine Fran Daly, Ph.D.
Director, Costin Institute

# IDENTIFY THE CLINICAL SETTINGS WHERE DESIGNATED OSTEOPATHIC FELLOWS WILL PROVIDE OSTEOPATHIC PATIENT CARE. AMBULATORY SETTING.

- Clinical application of OPP/OMT primarily in ambulatory, UH-affiliated teaching practice (Site 1).
- Inpatient opportunities to perform osteopathic structural examination and utilize OMT at UH <u>Cleveland</u> <u>Medical Center</u> and UH Regional Hospitals (<u>Richmond Medical Center</u>).
  - Historically an osteopathic hospital.
  - Training ground for AOA and ACGME Osteopathic Recognition training programs
- Drs. Hostoffer and Jhaveri are core osteopathic-focused Allergy/Immunology faculty who can supervise application of OPP/OMT at both Site 1 and Regional Hospitals.
- ▶ OPP in patient encounters is encouraged and considered when appropriate to patient care.
- Primary sites of didactic training for OPP/OMT include Site 1 Learning Center and conference space at UH Regional Hospitals Richmond campuses.
  - Necessary media equipment, i.e. computer, projector, large screen, etc.
  - Portable OMT exam tables available

### DESCRIBE HOW AND WHEN DESIGNATED OSTEOPATHIC FELLOWS TEACH OPP.

- Multiple opportunities to teach OPP:
  - Co-present at UH ONMM Grand Round series for Allergy/Immunology topic that integrates OPP/OMT
    - Osteopathic-focused faculty facilitators moderate and assist all learners presenting
    - Divided into sections: Case presentation; osteopathic principles involving that topic; evidenced-base literature on the integration of OPP/OMT with that topic; several OMT techniques that apply to that topic and developing board-like questions.
  - Develop an Allergy/Immunology OMT Module
  - Present at monthly Osteopathic-focused Journal Club.
  - Role model and teach OPP as it relates to Allergy/Immunology to LECOM and other visiting osteopathic medical students frequently rotate onto
  - Participants in OMM faculty development series <a href="Scholar Teacher">Scholar Teacher</a>



# **UHOC Osteopathic Conference**

Management Services Center – Media Room 605 Warrensville Center Road Shaker Heights, Ohio 44122 Friday, November 2, 2018

n - 8:15am: Osteopathic Lecture presented by: Edward Craft, DO, Family ne Physician, University Hospitals, St. John Medical Center, Westlake, Ohio

n - 9:00am: Research during Residency & Fellowship, Janet Peachey, Clinical
 ch Project Coordinator, University Hospitals, Regional Hospitals

1530 n - 10:30am: Osteopathic Neuromusculoskeletal Medicine Grand Rounds

Viscerosomatics in a patient with ESRD and ACS, UH Regionals Internal

Medicine Residency PGY-3's: Kristen Alley, DO, Anish Bhakta, DO, James Cappello, DO,

Andrew Chin, DO, Kyle Cleveland, DO, Gurmat Gill, DO, Benita Mathai, DO, Peter Oley,

Seeha Patel, DO, Tarun Patel, DO, Wesley Zhen, DO, James Cox. DO, Ryan Shilian,

10:30 m - 10:50am: Journal Club, OMT on Post-Operative Ileus, Andrea Fischione,
O, Asadeh Zangeneh, DO, Gary Stocker, OMS-3, Patrick Russell, OMS-3

0:50 m-11:10am: Journal Club, Qualitative Evaluation of OMT in a Patient with

### Qualitative Evaluation of Osteopathic Manipulative Therapy in a Patient With Gastroesophageal Reflux Disease: A Brief Report

Leonardo Rios Diniz, DO (Brazil); Jacson Nesi, DO (Brazil); Ana Christina Curi, DO (Brazil); and Wagner Martins, OMS V (Brazil), PhD

From the Brazilian institute of Osteopathic in Rio de Janeiro, RJ, Brazil (Ors Diniz, Nesi, and Curi), and the Physic al Therapy Division at the University

Martins)

reported.

ndence to niz, OMS, \$ 714/914 I 501 Edif. mailia/DF.

nal.com

Submitted 20, 2013; a received 23, 2013; accepted e. 6, 2013. Context: Gastroesophageal reflux disease (GERD) is a chronic condition that affects a growing number of people and is currently among the most common disorders seen in clinical practice.

Objective: To develop a protocol for the management of GERD with osteopathic manipulative therapy (OMTh) applied to the diaphragm and esophagus, and to evaluate the protocol's effectiveness using the quality of life scale (QS-GERD) for the disease.

Methods: In this single-blinded prospective study, an OMTh protocol focusing on the diaphragmand esophagus was applied to a single patient, who had received a diagnosis of GERD 4 years previously. Outcomes were measured using the QS-GERD, which has a total possible score ranging from 0 to 45 (the lower the score, the better the quality of life) and a level of satisfaction from very satisfied to incapacitated. The OMTh protocol was applied at 3 sessions (initial session, second session 1 week after the first, and third session 2 weeks after the second), and the patient completed the QS-GERD 4 times (before the first session, before the third session, and 2 and 4 weeks after the third session).

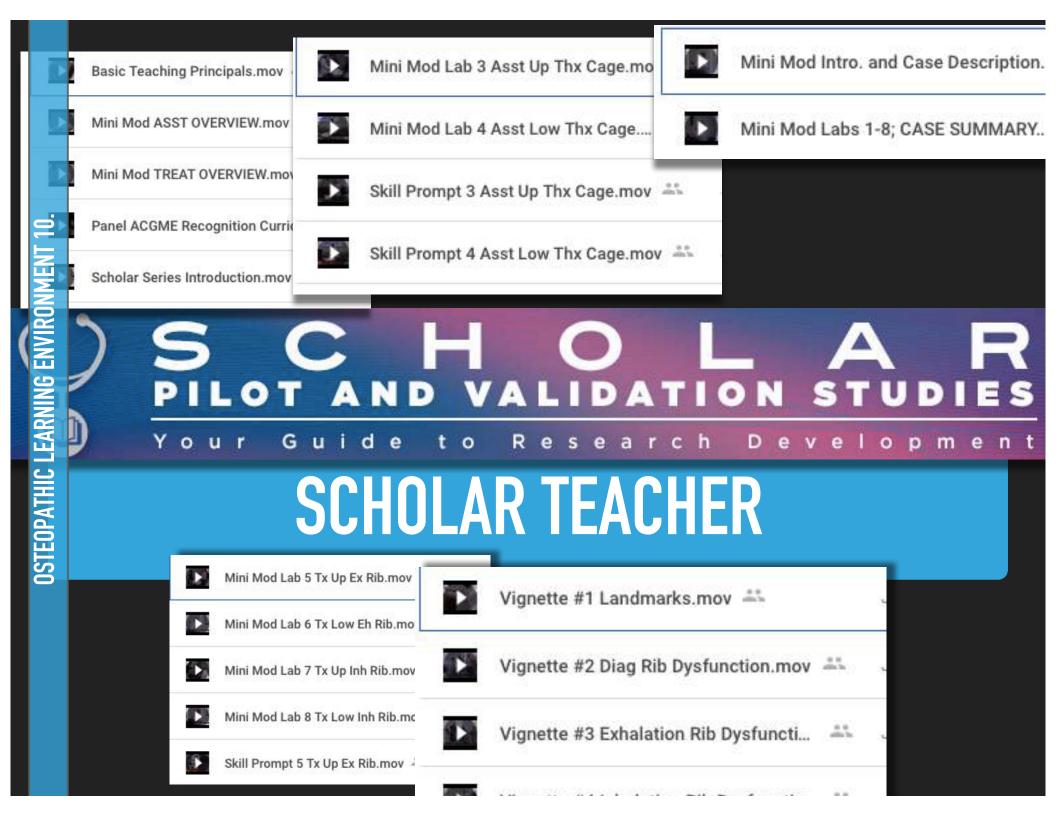
Results: The OMTh protocol was administered without adverse events, and the patient reported positive outcomes after the third session. The QS-GERD showed a score improvement from 13 of 45 to 4 of 45.

Conclusion: The results in the present report show that OMTh applied to the diaphragm and esophagus may improve symptoms of GERD and should be added to the somatovisceral approach to the care of patients with this condition.



# LECOM ALLERGY/URT OMM





# DESCRIBE THE LEARNING ENVIRONMENT THAT SUPPORTS OSTEOPATHIC SCHOLARLY ACTIVITY BY OSTEOPATHIC FACULTY MEMBERS AND THE RESOURCES PROVIDED FOR THEM.

- Development of peer-reviewed journals and books in osteopathic scholarly work
  - ► Wu SS, Hostoffer R, Gibbons K, Shaw HH, Shaw, MB. "Case Study: Dizziness." Chapter 48A. Osteopathic Considerations in Patients with Head, Eyes, Ears, Nose, and Throat Disorders. In *Foundations of Osteopathic Medicine*. 4th Edition (Published).
  - Wu SS, Hostoffer R, Gibbons K, Shaw HH, Shaw, MB. "Case Study: Rhinosinusitis." Chapter 48A. Osteopathic Consideration in Patients with Head, Eyes, Ears, Nose, and Throat Disorders. In Foundations of Osteopathic Medicine. 4th Edition (Published).
- ▶ Journal of American Osteopathic Association (JAOA) publications
  - Peppers BP, Varma P, Kim YM, Hostoffer RW, Rowane MP. <u>Scholar 7: The Development of Regional Community Hospitals' Scholastic Environment.</u> *J Am Osteopath Assoc* 2017;117(10):643–650. doi: 10.7556/jaoa.2017.121 (Published).
  - ▶ Wu SS, Graven K, Sergi M, Hostoffer H. Rhinitis: The Osteopathic Modular Approach (Published).
  - ► Schend J, Hostoffer H. Asthma: The Osteopathic Modular Approach (Submitted).
- ► Lecturer/participant in lecture series
  - UHOC
  - ► AAO Convocation
  - ► **CAOM** workshop
  - OMM Workshop directed by Paul Evans, DO
- ► Production and utilization of OMM faculty development series **Scholar Teacher** and **Scholar Specific** osteopathic curriculum.
- ► Library of osteopathic textbooks available on site in <a>Site 1</a> Learning Center.
- Additional resources include, "A Teaching Guide for Osteopathic Manipulative Medicine," by AACOM/ECOP [Kendi Hensel, DO, PhD, Executive Editor. 2014].



Chapter 48A Head, Eyes, Ears, Nose and Thr

#### RE INOS INUISITIS

Shan Shan Wu, D.O.

Robert Hostoffer, D.O.

Kathleen Gibbons, D.O.

Michael B. Shaw, D.O.

Harriet H. Shaw, D.O.

### Key Concepts

- Inflammation of the nasal and paranasal muc
  - or allergic conditions. The most comm
  - inusitis in adults are Streptococcus pne
  - ella catarrhalis.
- metion of the sinus drainage pathways a
  - tion of mucus in the sinuses, predispos
  - mmon causes of obstruction.
- pathic manipulative treatment, as a me.
- play a major role in the treatment of sinu
  - tion from the head and neck to decrease
  - a would be expected to facilitate the si
- some osed sympathetic stimulation leads to
  - Sympathetic preganglionic fibers to the sinus
  - superior cervical ganglion (C2-3), Facilitation
  - thoracic and cervical spine may, thereby, affi
- · Start with conservative management of symp
  - bacterial infection. Consider antibiotic therap
  - sinusi is, severe symptoms, or when conserve

A collaboration between the JAOA and the American Ass of Osteopathic Medicine (AACOM) to recruit, peer review research and other scholarly articles related to osteopath

### JAOA/AACOM

The impor

residency

Associatio

system. Ti

created to

facilitate cl

ating a sel

Skills were

protocol to

participant

in a post-

hospitals

achieving

has the po

requiremen

J Am Osteopat

doi:10.7556/jaox

Keywords: res

authors



Brian P. Peppers, DO, PhD; Priya Varma, DO; Yoon Mi Kim, E Michael P. Rowane, DO, MS Scholar Specific was released in De workshops were added in Fall 2018

### **Session Titles**

Session 1: Case Presentation (1hou

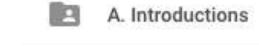
Session 2: Capstone for Osteopath This video compares osteopathic re

From University Hospitals Cleveland Medical Center in Ohio (Drs Peppers and Hostoffer): Lake Erie Consortium for Osteopathic Medical Training in Erie, Pennsylvania (Dr Peppers); University Hospitals Regional Hospitals: Campus at Richmond and Bedford in Richmond Heights, Ohio (Dr. Varma); Geisinger Health System in Stanton, Pennsylvania (Dr Kim); Allergy/ Immunology Associates, Inc. in Mayfield Heights, Ohio (Dr Hostoffer); and the Departments of Family Medicine and Osteopathic Manipulative Medicine at the Lake Erie College of Osteopathic Medicine in Erie, Pennsylvania (Dr Rowane).

> Financial Disclosures: None reported.

Support: None reported.

Address correspondence to Brian P. Peppers, DO, PhD, University Hospitals Regional Hospitals Campuses at



FAC DEV: Intro and Case Discussion



FAC DEV: Landmarks of Thoracic Cage



"n February of 2014, the American Osteopathic Ass American Association of Colleges of Osteopathic

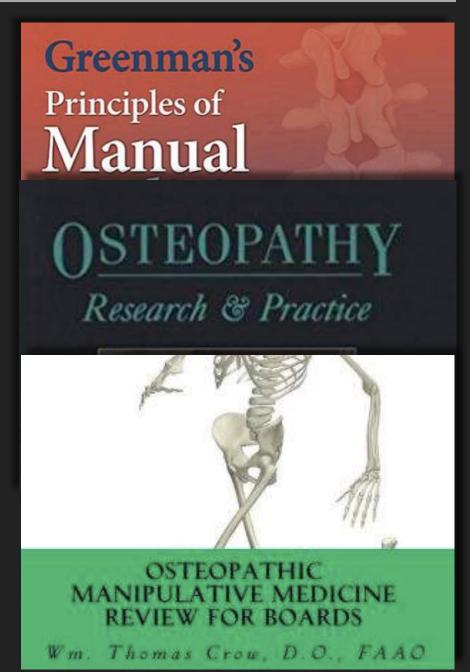
DESCRIBE THE RESOURCES AVAILABLE TO SUPPORT OSTEOPATHIC MEDICAL EDUCATION IN THE FOLLOWING AREAS: <u>A. REFERENCE MATERIAL PERTAINING TO OMM AND OPP INTEGRATION INTO PATIENT CARE (E.G., PHYSICAL, ON-SITE LIBRARY; ELECTRONIC LIBRARY RESOURCES; OMT VIDEO SERIES BY XYZ; ETC.)</u>

- UH Regional Hospitals Medical Library textbooks on OPP vary from recent publications to historical books that are still currently relevant to both art and science involving OPP. A small sampling of OPP textbooks includes:
  - ▶ A Nicholas, A, Nicholas, E. Atlas of Osteopathic Technique. Second Edition. Lippincott Williams & Wilkins. 2011.
  - Chila, A [ed]. Foundations of Osteopathic Medicine. Lippincott Williams & Wilkins. 2010.
  - Ward, Robert C. (Executive Editor). Foundations for Osteopathic Medicine. Baltimore, Maryland: Williams & Wilkins. 1997.
  - Rowane MP, Evans P. Basic Musculoskeletal Skills: The 15 Minute Office Encounter. Indianapolis, IN: American Academy of Osteopathy Publications, 2013 [Second Printing].
  - Nelson, KE, Glonek, T. Somatic Dysfunction in Osteopathic Family Medicine. Second Edition Lippincott Williams & Wilkins. 2014.
  - Fryette, Harrison: Principles of Osteopathic Technique. Carmel, CA. Academy of Applied Osteopathy. 1954.
  - Page, LE: The Principles of Osteopathy. Kirksville, Missouri, Press of Journal Printing Company, 1952.
  - Walton, WJ: Osteopathic Diagnosis and Technique. Colorado Springs, CO, American Academy of Osteopathy, 1970.
  - Kuchera, WA. Kuchera, ML: The Kuchera Manual in Osteopathic Principles in Practice. Second Edition (Revised) Kirksville, Missouri: KCOM Press, 1992.
  - DiGiovanna, EL, Schiowitz, S, Dowling, DJ. An Osteopathic Approach to Diagnosis and Treatment. Third Edition, Philadelphia. PA: Lippincott-Raven Publishers. 2004.
  - Greenman, Philip E. Principles of Manual Medicine. Second Edition Baltimore, Maryland: Williams & Wilkins. 1996.
  - Kuchera, ML, Kuchera, WA: Osteopathic Considerations In Somatic Dysfunction. Second Edition (Revised) Kirksville, Missouri: KCOM Press, 1991, 33-52.
  - Carreiro, J. Pediatric Manual Medicine. Church Livingstone Elsevier. 2009.
  - Carreiro, J. An Osteopathic Approach to Children. Second Edition. Church Livingstone Elsevier. 2009.
  - Jones, LH, Kusunose, R. Goering, E. Jones Strain-Counterstrain. Jones Institute. 1995.
  - Hebgen, EU. Visceral Manipulation in Osteopathy. New York. Thieme Publishing Group. 2011.

# OSTEOPATHIC EDUCATION PROGRAM 13.A (CONTINUED).

DESCRIBE THE RESOURCES AVAILABLE TO SUPPORT OSTEOPATHIC MEDICAL EDUCATION IN THE FOLLOWING AREAS: <u>A. REFERENCE MATERIAL PERTAINING TO OMM AND OPP INTEGRATION INTO PATIENT CARE (E.G., PHYSICAL, ON-SITE LIBRARY; ELECTRONIC LIBRARY RESOURCES; OMT VIDEO SERIES BY XYZ; ETC.)</u>

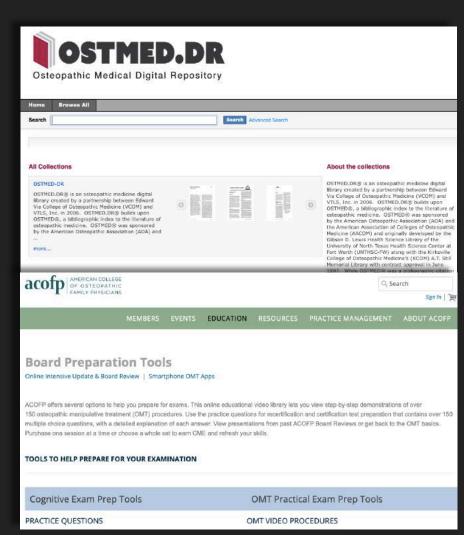
- Videos that incorporate OPP, including:
  - "Treating the Hospitalized Patient with Osteopathic Manipulative Treatment" by Karen Steele, DO, FAAO
  - "Principles of Manual Medicine" by Philip E.Greenman, DO, FAAO
- Series of readings fundamental to understanding OPP and boards review:
  - Still AT. Osteopathy Research & Practice
  - ► Crow WT. Osteopathic Manipulative Medicine Review for Boards (3<sup>rd</sup> Edition).
  - Nelson KE. Somatic Dysfunction in Osteopathic Family Medicine.
  - DiGiovanna EL, Schiowitz S. Dowling DJ. An
     Osteopathic Approach to Diagnosis and Treatment.



# OSTEOPATHIC EDUCATION PROGRAM 13.A (CONTINUED).

DESCRIBE THE RESOURCES AVAILABLE TO SUPPORT OSTEOPATHIC MEDICAL EDUCATION IN THE FOLLOWING AREAS: <u>A. REFERENCE MATERIAL PERTAINING TO OMM AND OPP INTEGRATION INTO PATIENT CARE (E.G., PHYSICAL, ON-SITE LIBRARY; ELECTRONIC LIBRARY RESOURCES; OMT VIDEO SERIES BY XYZ; ETC.)</u>

- ▶ OPP/OMM/OMT On-Line Reference materials:
  - OSTMED.DR® (<a href="http://cdm17018.contentdm.oclc.org">http://cdm17018.contentdm.oclc.org</a>)
    - Osteopathic medicine digital library
    - Books, selective journals, video and images, and core journals, including:
      - Journal of Osteopathy v.4 (2, 4-12) 1897; v.5 (1-7) 1898
      - ▶ JAOA 1950 to present
      - AOAJ 1960 to present
- ► LECOM/LECOMT Core Library affiliation w/ UH enables access to the American College of Osteopathic Family Physicians OMT Coursework (http://www.acofp.org/acofpimis/acofporg/apps/OMT/index.html)



DESCRIBE THE RESOURCES AVAILABLE TO SUPPORT OSTEOPATHIC MEDICAL EDUCATION IN THE FOLLOWING AREAS: B. ACCESSIBILITY OF EXAMINATION TABLES SUITABLE FOR OMT AND EDUCATION.

- 2 portable OMT exam tables
  - Site 1 for didactic and workshop training sessions.
  - Amendable for application of OMT in care of patients.
- ▶ OPP/OMT training sessions
  - Strive to demonstrate application of OPP/OMT in settings that do not have OMT tables.
  - ► Trainees must be able to utilize OMT in an A/I ambulatory and inpatient setting.
- Multiple portable OMT tables at UH Regional Hospitals (e.g. 18 portable OMT tables at <u>Richmond Medical Center</u>) training sites for didactic and workshop sessions
  - ONMM Grand Rounds
  - Monthly ONMM Core Faculty Didactic-Workshop Series

# **OSTEOPATHIC EVALUATION 14.**

SELECT THE COMMITTEE THAT REVIEWS THE PROGRESS OF ALL DESIGNATED OSTEOPATHIC FELLOWS IN THE PROGRAM AS IT RELATES TO OPP.

Clinical Competency Committee (CCC)

#### CCC 2/12/2019

#### Agenda/minutes

In Attendance expected:

Emily Pas, Program administrator

Dr Hostoffer, Program Director

Dr Devi Jhaveri, Associate program director

- 1. Biannual Osteopathic Evaluation Review: Dr Hostoffer
  - a. All evaluations are in the process of being organized
  - b. Process will start next Monday
- 2. 360 and Osteopathic report review: Dr Hostoffer
  - a. Similar to above
- 3. Log Review: Dr Jhaveri
  - a. All fellows have met their Mins for patients and procedures
- 4. Milestone and Osteopathic review: Dr Hostoffer and Dr Jhaveri
  - a. Milestones have been submitted to ACGME
  - b. Will review composites on ACGME site
- 5. Faculty and fellow surveys are completed and submitted
  - a. Will review the composites and comparisons on Monday
- 6. Change meeting with Dr. Nedorost to next week Monday
- 7. Inspection binders will be reviewed next week Monday
- 8. Changes to chiefs for next year:
  - a. Didactic chiefs; Jason Schend
  - b. Scheduling Chief: Shan Shan Wu
  - c. Meeting Chief: Neha

# LIST THE OSTEOPATHIC FACULTY MEMBER(S) ON THE CCC.

- Robert Hostoffer, DO, MEd, FAAP, FACOP, FACOI, UH Adult & Pediatric Allergy/Immunology Fellowship Program Director
- Devi Jhaveri, DO, FAAP, ACOP, UH Adult & Pediatric
   Allergy/Immunology Fellowship Assistant Program Director

		Name:	Devi Jnaveri D.O.		
		CURRICULUM VITAE	915 Landerbrook layfield Heights, (		
AME:		Robert William Hostoffer, Jr., D.O.	16 381 3333 12 399 5533		
DDRE	<u>.ss:</u>	Home: 5536 Prestwick Ln. Highland Hts., Oh 44143	rjhaveri@allergyo	cleveland.com	
7. 7.		Business: Allergy Immunology Associates, Inc. 1611 South Green Road South Euclid, Ohio 44121	Employment Associate Program Director Allergy	University Hospitals of Cleveland, Case Western	Cleveland, OH
AT E	F BIRTH:	August 31, 1959	mmunology ellowship	Reserve University	
LAC	OF BIRTH:	Mt. Pleasant, PA	artner and hysician	Allergy Immunology Associates Inc.	Mayfield Heights, OH
FOPATHIC	AL STATUS:	Wife: Karen Louise Children: Alexander David, Vincent Michael, Nicholas James, Sarah Irene, Zachary Thomas	tesearch Partner Aedical Director	Ohio Clinical Research Associates, LLC.	Mayfield Heights, OH
DU S	TION:	St. Mary's Preparatory Orchard Lake, Michigan, 1977			
		John Carroll University University Heights, OH B.S. (Biology), 1981	00	Osteopathic Medicine	Ohio University College of Osteopathic Medicine
		Philadelphia College of Osteopathic Medicine Philadelphia, PA D.O., 1985	g g	Marketing and Finance	University of Illinois Chicag
		Lake Erie College of Osteopathic Medicine Erie, PA Masters of Medical Education, 2019	ellow	Allergy and Immunology	University Hospitals Richmo Medical Center
		2009-2012	Resident	Pediatrics	Rainbow Babies & Children

WHAT OBJECTIVE FORMATIVE ASSESSMENT IS USED BY THE PROGRAM TO DETERMINE THE FOLLOWING IN DESIGNATED OSTEOPATHIC FELLOWS? A. OSTEOPATHIC MEDICAL KNOWLEDGE:

- Yearly in-service.
- Osteopathic A/I AOA Boards.
- Daily incorporation of OPP into didactics.
- Scholarly activity that incorporates OMM and OPP w/ subsequent discussion.

- year old male presents with mild chest tightness and cough. The patient has asthmatic the appropriate medicines. You plan to increase his maintenance medicines. What OMT procedure would be helpful:
  - a. Drainage of Galbreath
  - b. Auricular pull
  - Lymphatic drainage
  - Pedal pump
  - Cranial occipital release
- 2). An 18 year old male presents to your office with cough and resolving bronchitis. All of th protedures would be appropriate except:
  - a. Thoracic myofascial
  - b. Lateral Recumbent under the shoulder
  - c. Mid and Lower Thoracic Technique
  - d. Lymphatic Drainage
  - e. Solar plexus release



AMERICAN OSTEOPATHIC ALLERGY AND IMMUNOLOGY

year old female presents to your office for evaluation of a runny nose. been dealing with this for around 5 years. Symptoms are worse in the s around her cat. Symptoms include runny nose, sneezing, itchy eyes, and first appropriate diagnostic step?

- a. Aeroallergen serum IgE

b. Aeroallergen skin testing
c. Nasal Cytology
d. Aeroallergen serum IgG
e. No need for diagnostic testing as history alone is sufficient

a. Aeroallergen skin testing
c. Nasal Cytology
d. Aeroallergen serum IgG
e. No need for diagnostic testing as history alone is sufficient

a. Aeroallergen skin testing
c. Nasal Cytology
d. Aeroallergen serum IgG
e. No need for diagnostic testing as history alone is sufficient

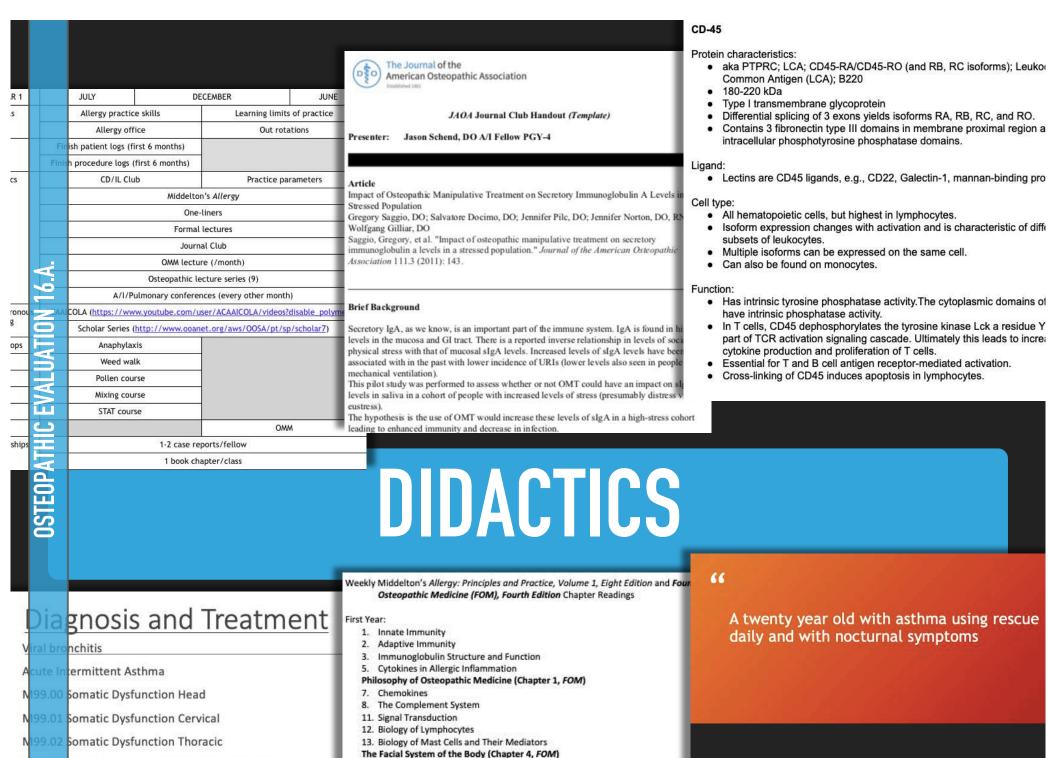
- a. Oral Antihistamine
- b. Oral Leukotriene inhibitor
- c. Intranasal steroid
- d. Immunotherapy
- e. Avoidance/Removal of cat from house
- 23. Based on the case scenario in question 1, the patient eventually decides to s immunotherapy. What type of allergen extract is not standardized by the

# Written Exam

Demonstrate your mastery of current advances in the s Pediatric and Adult Allergy and Immunology.

APPLY NOW

Pediatric and Adult Allergy and Immunology



Biology of Basophils
 Biology of Eosinophils

17. Biology of Neutrophils

N199.06 Somatic Dysfunction Upper Extremity

N199.08 Somatic Dysfunction Rib

# **OSTEOPATHIC EVALUATION 16.B.**

WHAT OBJECTIVE FORMATIVE ASSESSMENT IS USED BY THE PROGRAM TO DETERMINE THE FOLLOWING IN DESIGNATED OSTEOPATHIC FELLOWS? B. OSTEOPATHIC PROCEDURAL SKILLS:

- Biannual formative evaluation
- Monthly rotation assessment
- 360-degree evaluation form
- Objective osteopathic competency evaluation

					University Hospitals				
	Name:								
	1 <sup>ST</sup> SI	EMI-ANNUAL EVALUATION FOR ALLERGY/IMMUNOLLOGYFELLOWSHIP							
	I. ROTATION R DIRECTIONS: Please	I. ROTATION REVIEW DIRECTIONS: Please rate each			our Semi-Annual Evaluation Program Director meeting goes well, YOU ARE TO FILL TO YOUR SEMI-ANNUAL EVALUATION PD EVALUATION MEETING AND BRING at you have participated in during this academic year. Please rate from 1-3.  Ins.; 2- Met educational expectations; 3-Exceeded expectations				
	ROTATION ROTATION RLOCK MONTH		ROTATION	FACULTY- TEACHING	OPPIONT EXPERIENCE	OVERALL RATING	COMMENTS MHAT DID YOU LIKE A WHAT COULD BE DONE TO MAKE THIS A BETTER EXPERENCE.		
	University Hospitals  Date of Review: / /		I	1 2 3	1 2 3 N/A	123			
	Annual Fellow Evaluation		- 1			_			
d: Based on the consensus of the members of the Clinical Competency Committee with the program director;				1 2 3	1 2 3 N/A	1 2 3			
/ final evaluation of this resident in meeting the goals and objectives set for the training program.  ION BASED ON THE FOLLOWING ASSESSMENT TOOLS:  raluations    Chart Stimulated Review				1 2 3	1 2 3 N/A	1 2 3			
			Below Expected Level*	1 2 3	1 2 3 N/A	1 2 3			
				1 2 3	1 2 3	123			
Demonstrates knowledge about established and evolving biomedical, dinical, epidemiological and social behavioral sciences as well as the application to patient care.  Demonstrates the ability to investigate and evaluate patient care practices, appraises and assimilates			_		N/A				
as ed scientific evidence to continuously improve patient care based on constant self-evaluation and life-long learning.				1 2 3	1 2 3	1 2 3			
aal and ation Skills	게 하고 보고 보고 :				N/A				
alism	Demonstrates a commitment to carrying out professional responsibilities, and adherence to ethical principles.								
Demonstrates awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on other resources in the system to provide optimal health care.  Demonstrates the ability to integrate Osteopathic Principles and Practices in the residents discipline, including integrating belief to patient content of the patient of t									
integrating holistic patient-centered care in planning, testing, therapy, and prevention.  pected performance (required comments)									
	f the Clinical Competency Committee to Program Director:  ng and at expected level in the knowledge, clinical skills, professional attitudes and behaviors per ACG	ME core							

