

October 11, 2019

State Board of Chiropractic Examiners

To Whom It May Concern:

This letter is to state that as Director of Parker Professional Programs, I have reviewed the speakers below and determined that they are post-graduate level instructors, through a curriculum vitae or resume, and they have knowledge, training and expertise in the topics to be covered for “The Lumbar MRI in Clinical Practice: Systematic Interpretation”. The documentation appears to fall within chiropractic guidelines of the various state boards.

Parker University
Continuing Education
2540 Walnut Hill Lane
Dallas, Texas 75229
www.parker.edu

William Morgan, DC

Please contact me if further information is needed, my direct phone number is 214-902-3492, or via email at pfrase@parker.edu.

Sincerely,



Phyllis Frase-Charrette
Director of Professional Programs

METHOD OF CERTIFYING IN ONLINE ACTIVITIES

1. **Name of Course:** The Lumbar MRI in Clinical Practice: Systematic Interpretation
2. **Organization Sponsoring the Course:** Parker University
3. **Course Objective:** To enhance the expertise of the Chiropractic Professional.
4. **Study Hours Required:** 4 Online
5. **Instructor(s):** William Morgan, DC
6. Educational background and experience of instructor(s) is on file in the University offices.
7. **Attendance Verification Method and Certifying Officer:** FL Licensees are required to provide a valid driver's license to be awarded CE. The Online presentation is delivered via web pages in which the participant must review anatomy images, read supporting text, listen to audio instruction, and answer test questions. The time the participant spends on each page is logged and tracked. In addition, the test questions must be passed, or the participant cannot continue on to the following pages. The computerized log files that track the participant's access time and usage will be utilized to validate the attendance and participation. The instructors will be available for questions via e-mail. Upon successful completion, Parker University Continuing Education Department will maintain and distribute attendance records.
8. **Textbooks and/or Equipment Required:** Internet
9. **Outline of Material Covered:** Attached
10. **Location(s):** Computer/Internet Based
11. **Date(s):** Based upon date of actual completion

Objectives and Program Schedule

The Lumbar MRI in Clinical Practice: Systematic Interpretation
William E. Morgan, DC

Module 1: Intro: Course Overview (30min.)

- The Clinicians Perspective. Identifying the unique needs of clinicians, particularly those who use manual medicine to treat the spine.
- Why should a spinal clinician study lumbar MRI?
- What makes it into a radiology report? What doesn't?
- Setting the standard: An informal pretest to highlight what this course will cover. The baseline test: 30 slides of MRIs
- Brief explanation of the teaching method employed and the course expectations.
- Never leave the safety net: Interpreting MRI for enhanced musculoskeletal care with the safety net of a board certified radiologist. This course is not a replacement for a radiologist.

Module 2: Introduction to Systematic MR Interpretation (30min.)

- Introduction to MRI views, image types, image orientation, and sequencing
- Orientation and sequencing of the MRI images
- Image orientation and location descriptors
- Identifying image sequences
- MRI Image Types (T1 Weighted images, T2WI, Fat suppressed T2WI, Intermediate T2WI, Gadolinium enhanced T1WI, Fast spin echo (FSE), FSE STIR, Proton density, Fat saturation, and FIESTA (fast imaging employing Steady sTate Acquisition))
- Comparing T1 to T2 weighted images
- Criteria for ordering an MRI

Module 3: Anatomical Atlas of the Lumbar Spine on MRI: A Detailed Review of the Normal Anatomy (15 min)

- Anatomy of the spine
- Normal vascularity
- Muscles
- Characteristics of disc anatomy
- Normal fat distribution
- Normal appearance of cortical bone of the vertebral bodies

- Ligaments on MRI
- Normal variants
- Organs visible on spinal MRI

Module 4: Standardized Anatomical Reference Descriptors: Classification of Lumbar Disc Derangements (30 Min.)

This period of instruction will utilize schematics and lecture to provide instruction in the nomenclature and terminology of this topic, followed by a detailed presentation of what these descriptions look like on MRI.

- Normal disc
- Symmetrical bulge
- Asymmetrical bulge
- Disc herniation
- Differentiation between a broad-based and a focal herniation
- Differentiation between a disc protrusion and a disc extrusion
- Sequestered disc fragments
- Central disc herniation
- Para-central disc herniation
- Para-central herniation displacing a nerve root
- Nerve root compression
- Foraminal disc herniation
- Far lateral foraminal disc herniation
- **Classification of annular tears**
 - Radial tears
 - Transverse tears
 - Concentric tears
- **Disc morphology: A pictorial essay and lecture**
 - Spontaneous regression of large disc herniations
 - Progression of disc herniations
- Gallery of lumbar disc derangements

Module 5: Spondylolysis and Spondylolisthesis on MRI (30min.)

- **Types of spondylolisthesis**

- Congenital
- Isthmic
- Degenerative
- Traumatic
- Post-surgical
- **Characteristics of spondylolisthesis on MRI**
 - Elongation of the central canal on axial images associated with pars defect
 - IVF changes with spondylolisthesis
 - Disc rolling up with anterior listhesis
 - Trapezoid shape of the effected vertebra
- The case for functional MRI

Module 6: Spinal Structural Concerns (30min.)

- Tethered Cord
- Spondylosis
- Central Canal Stenosis
- Fractures
- Modic Changes
- Facets

Module 7: Less Commonly Known Findings of Clinical Significance (30Min.)

- Conjoined nerve roots
- Classification of spinal cord tumors by location
- Perineural (Tarlovs) Cysts
- Hematomas
- Metastases
- Inflammatory joint disease
- Unspecified findings (orphans)

Module 8: Less Commonly Known Findings of Clinical Significance (continued) (15 Min.)

- Fat on MRI: Fat as tumors, fat as space occupying lesions, fat as a tethered cord, fatty bone infiltration, fatty necrosis of muscle.

- Incidental visceral findings seen on lumbar MRI
- Post-surgical findings
- Artifacts

Module 9: Putting it all Together: Systematic Sequence of Interpretation (30Min.)

- Putting it all together: The systematic approach to reading an MRI
- Retaking the test
- Reviewing the test answers
- Concluding remarks

Curriculum Vitae

Name: William E. Morgan, D.C.

Address and Phone Number:

Office of the President
Parker University
2540 Walnut Hill Lane,
Dallas, TX 75229

(240) 750-3891, Mobile

Work Email: Wmorgan@Parker.edu
Private Email: MorganDC@gmail.com

SSN: XXX XX 6420

National Provider Identification Number: 1841251436

Marital Status: Married to Fellow Chiropractor Clare Morgan since 1987

Education:

Prerequisites for chiropractic college. Diablo Valley College 321 Golf Club Road, Pleasant Hill, CA 94523	January 1982
Doctor of Chiropractic, Palmer College of Chiropractic-West. 90 E. Tasman Drive, San Jose, CA 95134	September 20, 1985
Bachelor of Science. The University of the State of New York at Albany (now Excelsior College). 7 Columbia Circle, Albany, NY 12203-5159	December 20, 1996

Post-Doctoral Credentials:

Fellowship in Integrated Medicine (2000 hours). National Naval Medical Center, Bethesda Texas Chiropractic College credentialed this fellowship Texas Chiropractic College 5912 Spencer Highway Pasadena, Texas 77505-1699	May 31, 2004
Diplomate American Academy of Pain Management (DAAPM), 2004 American Academy of Pain Management 13947 Mono Way #A Sonora, CA 95370	July 19, 2004
Battlefield Acupuncture/Articular Acupuncture Camp David Medical Department Thurmont, Maryland	January 15, 2014
Selective Functional Movement Assessment	September 6, 2014

Certification Course
Walter Reed National Military Medical Center, Bethesda, Maryland

Graston Myofascial Release Certification Course 2002

Employment History

Name and Address of Employer	From	To
(1) Parker University, President 2540 Walnut Hill Lane, Dallas, TX 75229	June 15, 2016	Present

Work Performed: Duties of university president and head of Parker Seminars.

(2) U.S. Navy National Naval Medical Center (NNMC) Bethesda, Maryland 1998-2011 Walter Reed National Military Medical Center 2011-Present	1998	2016
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Work Performed: Chiropractic care, department head responsibilities (NNMC), research coordinator, patient advocacy, lecturing, supervision of other clinic personnel, provide care to distinguished visitors, and implementation of rehabilitation programs.

Chiropractor to Congress: Maintain a clinical practice within the U.S. Capitol building working in the Office of the Attending Physician twice a week providing care to the U.S. Congress and the Supreme Court.

Provide chiropractic care at the White House and Camp David as a visiting consultant.

Train and supervise medical and chiropractic students, interns, and residents. Train dental residents (oral facial pain specialty training) rotating through the chiropractic department.

Research investigator.

	From	To
(2) United States Naval Academy Annapolis Maryland	August 12, 2009	June 8, 2016

Worked Performed: Provide chiropractic care to elite athletes as the chiropractor to the United States Naval Academy football team; provide care for Naval Academy athletes after practices, prior to games, and on the sidelines of games. This position requires collaboration and integration with physicians, trainers, coaches, physical therapists, and nutritionists.

ONLINE CE ATTENDANCE CERTIFICATE

Name: _____

Title: Online: XXXX

Address: _____

Course # XXXX

Date: XXXX

City: _____ **State:** _____ **Zip:** _____

Location: Online

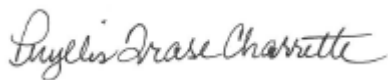
STATE [only one per voucher]: _____ **YOUR STATE LICENSE #:** _____

DO NOT WRITE BELOW THIS BOX

Completion Date	Class Hours	Course Title	Instructor
XX/XX/XX			

TOTAL HOURS ATTENDED: _____

Board Approval No. _____



Phyllis Frase Charrette
Director, Parker Professional Programs

This certificate is to acknowledge your completion of the Online Continuing Education course shown above. This copy is for your records and can be submitted to your board of licensing. Please Note: Verify the information is correct upon receipt – discrepancies will only be accepted up to 6 months after the closing date of the course. Please keep this certificate in a secure place. Any replacement, copy, or fax will incur a \$25 fee per certificate.



These Questions are delivered via the Parker Seminars mobile App.

Quality Feedback Survey

Course Name: _____

Date: _____ Location: _____

How did you hear about this Course?

Parker Brochure School E-mail Referral Parker Web Site Other _____

Please score each speaker on an “A to E” scale, with “A” Extremely Satisfied and “E” being Extremely Dissatisfied.

How would you rate this speaker

a b c d e

Rate the overall content of the session:

a b c d e

Rate the classroom & facilities:

a b c d e

Please add any additional comments:

a b c d e

Is there a certain speaker or topic you would like to see next time?:

a b c d e

12) What topics would be of interest to you for future classes?

Comments:

THANK YOU FOR YOUR FEEDBACK!

The purpose of this quality feedback survey is to provide information to the Instructors and to Parker University about extant standards of performance. **Your response will be held in confidence. You will not be identified in any way by reference to your response. For additional complaints or concerns regarding this program please contact Parker University at 800.266.4723.** Parker University will share the outcomes of this evaluation with the Instructor, and will keep a copy on file in the Continuing Education Office to demonstrate compliance with accreditation standards and requirements.