CURRICULUM VITAE

Chris Howard, RN, MSN, APRN BC, CFNP

Spine Institute of Louisiana

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Curriculum Vitae
Chris Howard, RN, MSN, APRN BC, CFNP

EXPERIENCE

Certified Family Nurse Practitioner with Dr. Pierce Nunley MD. 2001- Present
Certified Family Nurse Practitioner in ENT with Dr. Chandra Joshi MD. 2000-2001
Registered Nurse at Willis Knighton Medical Center. 1994-2000 Worked in Medical Intensive Care Unit, Surgical Intensive Care Unit, Cardiac Critical Care Unit, Transplant Care Unit and Emergency Department.

CURRENT JOB DESCRIPTION

Function as Advanced Practice Family Nurse Practitioner in Spine/Ortho Practice in collaborative practice with Pierce D. Nunley MD
Clinical Management of patients including new evaluations, ongoing diagnostic and treatment in office and inpatient consultations in hospital setting. Neurological evaluations, documentation / and interpretation of findings
Provide surgical assistance and post op care of operative patients.
Participate in multiple research studies currently and previously conducted with Dr. Nunley at the Spine Institute of Louisiana.

LICENSURE

Currently licensed as Family Nurse Practitioner in state of Louisiana.
Current prescriptive authority.

CERTIFICATION

Registered Nurse and Advanced Practice Registered Nurse State Board of Louisiana
National Accreditation with ANCC (American Nurse Credentialing Center)

PROFESSIONAL ORGANIZATIONS

American Association of Nurse Practitioners
Member of Louisiana State Nurse Practitioner Association

EDUCATION

High School: Caddo Magnet High School 1984-1988
Undergraduate: Northwestern State University
Bachelor of Science Degree Nursing 1994
Graduate School: Northwestern State University 2000
Masters of Science Degree

MISCELLANEOUS

Married, with children
Hobbies: Tennis, running, biking.

PUBLICATIONS

Referred Journals

Nunley PD, Jawahar A, Kerr EJ 3rd, Cavanaugh DA, **Howard C,** Brandao SM. Choice of plate may affect outcomes for single versus multilevel ACDF: results of a prospective randomized single-blind trial. Spine J. 2009 Feb;9(2):121-7. Epub 2008 Feb 8.

RESEARCH ACTIVITIES

A 2 and 5 year comparative evaluation of clinical outcomes in the treatment of moderate lumbar spinal stenosis with the Superion® Indirect Decompression System (IDS) vs direct decompression surgery for FDA actual conditions of use study. Sponsor: Vertiflex, Inc.

Prospective, concurrently controlled, multi-center study to evaluate the safety and effectiveness of the Spinal Kinetics™ M6-C Artificial Cervical Disc compared to Anterior Cervical Discectomy and Fusion (ACDF) for the treatment of symptomatic cervical radiculopathy. Sponsor: Spinal Kinetics.

Clinical investigation plan for post approval "Real Conditions of Use" study, a 2 and 5 year comparative evaluation of clinical outcomes in the treatment of degenerative spinal stenosis with concomitant low back pain by decompression with and without additional stabilization using the Coflex Interlaminar Technology for FDA Real Conditions of Use study Sponsor: Paradigm Spine.

A phase 3, open-label study to evaluate the safety of oliceridine (TRV130) in patients with acute pain for which parenteral opioid therapy is warranted. Sponsor: Trevent, Inc

Investigational plan for the evaluation of the ACADIA™ Facet Replacement System. Sponsor Globus Medical.

Clinical study protocol for the investigation of the Simplify™ cervical artificial disc. Sponsor: Simplify Medical, Inc.

Spineology clinical outcomes trial SCOUT IDE (G140140) clinical investigation. Sponsor: Spineology.

Treatment of Lumbar Spinal Stenosis with X-STOP® PEEK Spacer in moderately symptomatic patients. Sponsor: Medtronic.

Prospective, multi-center, randomized study comparing the Vertiflex Superion Interspinous Spacer (ISS) to the X-STOP Interspinous Process. Decompression (IPD) System in Patients with Moderate Lumbar Stenosis. Sponsor: Vertiflex, Inc.

Multi-center, prospective, randomized controlled clinical trial comparing the safety and effectiveness of the Mobi-C® Prosthesis to Conventional Anterior Cervical Discectomy and Fusion in the treatment of symptomatic degenerative disc disease (DCC) in the cervical spine. Sponsor: LDR Spine USA, Inc.

Comparison of complication rates between lateral approaches to the lumbar spine: K2M RAVINE® Far Lateral System vs NuVasive XLIF® Sponsor K2M, Inc.

Non-randomized safety and efficacy study of patients receiving Nucel® bone graft for one or two level interbody fusion for degenerative disease of the lumbar spine. (Nucel-03) Sponsor: NuTech Medical, Inc.

INSITE: Investigation of sacroiliac fusion treatment. Sponsor: SI-Bone, Inc.

Multi-center, open-label study of SI-6603 in patients with lumbar disc herniation (Phase III) Sponsor: Seikagaku Corporation.

Prospective, multicenter, randomized, double-blind, and placebo controlled study to evaluate the efficacy and safety of a single injection of rexlemestrocel-L alone or combined with Hyaluronic Acid (HA) in subjects with chronic discogenic lumbar back pain through 12 months. Sponsor: Mesoblast LTD.

Phase 2b randomized double-blind placebo controlled study to evaluate the safety and efficacy of *Staphylococcus Aureus* 4-antigen vaccine (SA4Ag) in adults undergoing elective posterior instrumented lumbar spinal fusion procedures. Sponsor: Pfizer.

Multicenter randomized double-blind, controlled comparative study of SI-6603 in patients with lumbar disc herniation (Phase III) Sponsor: Seikagaku Corporation.

Prospective randomized IDE trial to compare KIVAplasty with Kyphoplasty for treatment of osteoporotic vertebral compression fractures. Sponsor: Benvenue Medical.

A non-randomized prospective multi-center feasibility study of Allostem (Allofsource Inc.) in patients receiving fusion for single and two-level degenerative disease of the lumbar spine.

A study to compare VITOSS Bioactive® + BMA versus Osteocel Plus through Radiological and Clinical Outcomes in Extreme-Lateral Interbody Fusions (XLIF®).

A non-randomized prospective multi-center feasibility study of Nucel® in patients receiving fusion for single level degenerative disease of the lumbar spine.

A pivotal, multi-center, clinical trial evaluating the safety and effectiveness of the lumbar TDR device in patients with single-level Lumbar Degenerative Disc Disease (aka NuVasive Lateral TDR IDE).

A prospective study utilizing intraoperative epidural injection of Fentanyl and Bupivacaine for post-operative pain management. (IRB Approved study).

AxioMed "Freedom Lumbar Artificial Disc" FDA, Investigational Device Evaluation (IDE) study site.

A non-randomized, prospective, multi-center feasibility study of the Disc Dynamics DASCOR® Disc Arthroplasty Device in the treatment of degenerative disc disease. (PILOT STUDY)

A prospective, multi-center, randomized study comparing the VertiFlex® Superion™ Interspinous Spacer (ISS) to the X-STOP® Interspinous Process Decompression (IPD®) System in patients with moderate lumbar spinal stenosis.

Multi-center prospective study for clinical and radiographic outcomes of spine deformity comparing Set Screws to Taper Lock Instrumentation, safety and efficacy.

Clinical Trial comparing the Blackstone Advent™ Cervical Disc to Anterior Cervical Discectomy and Fusion (ACDF) for the treatment of One Level Degenerative Disc Disease.

In vitro Biomechanical Analysis of the Spine using Pedicle Screws and Rods: Ti-6Al-4V vs. NiTi (Nitinol) 2007-2008. A multi-center, prospective, randomized, controlled clinical trial comparing the safety and effectiveness of the Mobi- C® Prosthesis to conventional Anterior Cervical Discectomy and Fusion (ACDF) in the treatment of symptomatic Degenerative Disc Disease (DDD) in the cervical spine.

Comparison of Laminectomy to Laminoplasty using The ARCH™ Fixation System in patients with multiple level Cervical Spinal Canal Stenosis.

Comparison of dynamic stabilization of the lumbar spine with the Stabilimax NZ™ Dynamic Spine Stabilization System to posterolateral instrumented fusion.

A multi-center, prospective, randomized, controlled clinical trial comparing the safety and effectiveness of the Mobi.C® Prosthesis to Conventional Anterior Cervical Discectomy and Fusion in the treatment of Symptomatic Degenerative Disc Disease (DOD) in the cervical spine.

Comparison of Optimesh to Allograft Bone for posterior interbody fusion with supplemental screw fixation.

Biomechanical Effects on Adjacent Segments to Total Disc Arthroplasty versus Interbody Fusion during physiologic range of motion of the Lumbar Spine.

Kine*flex*/*C*™ Cervical Disc Arthroplasty, FDA, Investigational Device Evaluation (IDE) study site.

Kine*flex*™ Lumbar Disc Arthroplasty, FDA, Investigational Device Evaluation (IDE) study site.

A randomized, controlled clinical study to evaluate the safety and effectiveness of Cortoss® Synthetic Cortical Bone Void Filler in Vertebral Augmentation. FDA Investigational Device Evaluation (IDE) study site.

Comparison of static versus dynamic plating in anterior cervical fusion for 1, 2 & 3 level fusions. Class I, Prospective, randomized, IRB approved study.

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