The faculty of the Department of Neurosciences interacts with medical students during each of the students four years (Pillars 1, 2, 3).

In Pillar 1, the faculty participates in periodic clinical correlations in neurology as well as sessions on ethics/professionalism.

Dr. Valentina Joseph has assumed the position of Clerkship Director for Pillar 2 students. Dr. Jennifer Kruger serves as the Clerkship Coordinator in Rapid City.

Multiple faculty members participate in the mini-block sessions for Pillar 2. During these week long rotations, Pillar 2 students are exposed to the Neuroscience disciplines of Neurology, Neuroradiology, Neurosurgery and PM&R. Students have consistently rated these mini-block experiences very highly.

As Yankton does not have a local neurologist, the Yankton students spend a mini-block week dedicated to in-patient and out-patient experiences with the neurology faculty on the Avera McKennan campus. This clinical week is coordinated by Dr. Jeffrey Boyle. The faculty is committed to making the medical students’ LIC experiences comparable on all three campuses. For their LIC neurology rotations, the Yankton students attend clinics with Dr. Jerome Freeman in Sioux Falls and Dr. Valentina Joseph in Vermillion.

Various electives in neurology are currently available in Pillar 3. Fourth year medical students (Pillar 3) have the option of spending elective time on two teaching services at Sanford – a general neurology service and a stroke service. The stroke team works closely with the neuro-critical care ICU team. Also a Neuro-Critical Care elective is offered to Pillar 3 students. Additionally, Sanford, Avera and Rapid City Neurology offer general neurology electives that can be combinations of outpatient and inpatient experiences.

In 2018, 39 students opted for electives in Neurology, Neuro Critical Care and PM&R. The Pillar 3 electives offer students frequent opportunities for collaborative interaction between medical students and residents.

The Neurosciences Department is actively involved in resident education. Residents from Internal Medicine, Psychiatry, Family Medicine and Transitional Year have clinical rotations with the Neurosciences faculty. Internal Medicine residents have a required one month rotation on Neurology and Psychiatry residents spend two months on a Neurology rotation. In Sioux Falls, the residents spend much of their neurology rotation time on the Neurology Teaching Services.

The Student Interest Group in Neurology (SIGN) was established in 2014 and continues to have active membership. For 2018-19, the SIGN leadership is: Erik Burnison – president; Alex Sellers – vice president; Avery Franzen – secretary. Student members of
SIGN, as well as all Pillar 2 students, electronically receive the *Neurology Case of the Week* on D2L. Students are encouraged to review the cases and answer the focused clinical questions that follow. This format provides an opportunity for ongoing student/faculty interaction. Such weekly interaction is empathized particularly for the FARM students and Pillar 2 students in Yankton.

- The Department is committed to achieving comparable educational experiences on all campuses. In 2018, Dr. Freeman visited multiple FARM sites and periodic faculty visits will continue to those campuses. Dr. Freeman continues to offer telemedicine neurology consultations for FARM sites to promote student understanding of neurologic disease. This telemedicine format allows the student to perform observed examinations of patients with neurologic illness.

**SECTION OF ETHICS AND HUMANITIES**

- The Neuroscience Department’s Section of Ethics and Humanities has a diverse and active faculty committed to developing a strong curriculum for Pillars 1, 2 and 3. Dr. LuAnn Eidsness continues to serve as the Chair of the Section. Gretchen Spars, MA, MDiv (Certificate in Bioethics Coordinator) has been instrumental in the development of the Bioethics Certificate.

- Four sessions focusing on ethics/professionalism are conducted for Pillar 1 students during their first eight months.

- The Section provides an online course, *Clinical Ethics*, for all Pillar 2 students throughout the state (the three major campuses and the FARM sites). This curriculum promotes discussions centered around all major clinical disciplines. In addition to the online teaching component of the Clinical Ethics course, the students attend two Friday Academy sessions - one at the beginning of the Clinical Ethics course and the other as the online curriculum is being completed.

- The department has created three online electives for Pillar 3 students – *Advanced Studies in Bioethics; Ethical Foundations for Clinical Research; and Ethics, Professionalism and Leadership*. These courses serve as the core for the Bioethics Certificate (12 elective hours) that is offered by the Section of Ethics and Humanities. There are 12 students in the graduating class of 2019 projected to obtain the Bioethics Certificate. For the graduating Class of 2020, 18-20 students are projected to likely obtain the Bioethics Certificate. Courses applicable to this 12 credit requirement include the *Healer’s Art* (coordinated by the department of Family Medicine) and the one credit online *Clinical Ethics* course that all Pillar 2 students take.
Course enrollment for the online bioethics electives has steadily increased:

- **Advanced Studies in Bioethics** (NEUR 850 - March 2019) – 17 students enrolled
- **Ethics, Professionalism and Leadership** (NEUR 851 - April 2019) – 17 students enrolled
- **Ethical Foundations for Clinical Research** (NEUR 852 - October 2019) – 28 students enrolled
- **Advanced Studies in Bioethics** (NEUR 850 - February 2020) – 15 students enrolled
- **Ethics, Professionalism and Leadership** (NEUR 851 - March 2020) – 24 students enrolled

Various other Pillar 3 electives in bioethics are offered. **Ethical Issues in Medicine** offers the student’s time to expand knowledge of bioethics in clinical settings and by reading/discussing issues with interdisciplinary Section faculty. **Spirituality & Medicine** explores the role spirituality and religion play in a patient’s healing and how a physician’s own beliefs may influence the approach to illness, healing and personal life. The course has been facilitated by Marilyn Moor, RN-MA, and Dr. Michael Elliott (Chief Medical Officer, Avera McKennan Hospital). **Humanities & Medicine** is a course that utilizes short stories, poetry, essays, video and music to explore aspects of illness and caregiving. Students attend the course in person, by teleconferencing (Rapid City) and Skype. In 2018 and 2019, the core faculty for this course were Jerome Freeman, MD, Ellen Schellinger, MA and Peter Hoesing, PhD. Other Section faculty have also made guest appearances in this course.

Members of the Section continue to work closely with the DeGroot Center at Sanford USD Medical Center. The Center is dedicated to bioethics education, humanities and the healing arts. The mission of the Center parallels and complements the work being done by the Section. The principle goal of the Center is education. The faculty of the Center are also active faculty members with the Section of Ethics and Humanities. Ellen Schellinger has received extensive training in Mindfulness Based Stress Reduction (MBSR) through the University of Massachusetts Center for Mindfulness. She teaches a formal MBSR course and also participates in periodic lectures for Pillar 1 and Pillar 2 students.

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**LIFE CIRCLE SOUTH DAKOTA**

LifeCircleSD began in 1999 as “Partnership for Improving End of Life Care in SD” after a SSOM Board of Visitors session focusing on end-of-life care. Then Dean of the medical school, Dr. Robert Talley, supported this effort and it has been based in the medical school since its inception. It is a statewide organization with three work groups: academic work group for interprofessional education, community education and public policy. Please visit our web page for more information: [http://www.usd.edu/medicine/lifecircle](http://www.usd.edu/medicine/lifecircle).

The Academic Work group consists of interdisciplinary faculty representing medicine, nursing, chaplaincy, social work and pharmacy. This group is responsible for the Interdisciplinary Palliative Care (IPC) seminar (started in 1999) with the goal to improve care at the end-of-life. This Seminar occurs in three ½ day sessions that begin with home visits, followed by large
group didactic education, and then small group discussion. Didactic content also occurs on an online platform through Desire2Learn.

Another objective of the Seminar is to promote mutual recognition and value the interprofessional roles. Currently, students in medicine, nursing, pharmacy, social work and chaplaincy/ministry are participating in the seminar. The Seminar occurs in Sioux Falls, Rapid City and Yankton.

The third Work Group focuses on Public Policy with current efforts to establish POLST in South Dakota. The membership extends beyond the core LifeCircle committee, with involvement of many state agencies, professional organizations, religious groups, in addition to health care professionals.

**NEUROSCIENCES FACULTY**

**Sanford Health**

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Nessim Amin, MD</td>
<td>Emily Hutchinson, CMP</td>
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<td>Susan Assam, MD</td>
<td>Christopher Janssen, MD</td>
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<tr>
<td>Cindy Baldwin, RN, MS, CNP</td>
<td>Fanny Jaquez, MD</td>
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<tr>
<td>Thomas Boetel, DO</td>
<td>Peter Johnson, MD</td>
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<td>Molly Clark, PharmD, MHA</td>
<td>Valentina Joseph, MD</td>
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<td>Erica DeBoer, MA, RN</td>
<td>Jae Kim, MD</td>
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<td>Lisa Docken, RN</td>
<td>Catherine Mamah, MD</td>
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<td>Efrat Feldman, MD</td>
<td>Eugenio Matos, MD</td>
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<td>Kathryn Florio, DO</td>
<td>Maria Recio, MD</td>
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<td>Jerome Freeman, MD</td>
<td>Divyajot Sandhu, MD</td>
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<td>Joanne Gunderson, MSN</td>
<td>Jitendra Sharma, MD</td>
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<td>John Hansen, MD, MPH</td>
<td>Michelle Van Demark, RN, MSN</td>
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**Cross Appointments to Neurology**

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<th>Name</th>
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<tbody>
<tr>
<td>Wilson Asfora, MD (Neurosurgery)</td>
<td>Thomas Free, DO (Radiology)</td>
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<tr>
<td>J. Jeffery Baka, MD (Radiology)</td>
<td>Troy Gust, MD (Neurosurgery)</td>
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<tr>
<td>David Brechtelsbauer (Family Medicine)</td>
<td>Julie Johnson, MD (Pediatrics)</td>
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<tr>
<td>Aaron Berg, MD (Radiology)</td>
<td>Dave Kapaska, DO (Family Medicine)</td>
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<tr>
<td>Larry Burris, DO (Internal Medicine)</td>
<td>Bryan Wellman, MD (Neurosurgery)</td>
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<td>Edward Czamecki, MD (Radiology)</td>
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**Regional Medical Clinic & Rehabilitation – Rapid City**

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<tr>
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<tbody>
<tr>
<td>Robert Finley, MD</td>
<td>Matthew Simmons, MD</td>
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<tr>
<td>Steven Hata, MD</td>
<td>Joshua Sole, MD</td>
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<tr>
<td>Jennifer Kruger, MD</td>
<td>Brian Tschida, MD</td>
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<tr>
<td>Craig Mills, MD</td>
<td>David Tullar, PA-C</td>
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**Rapid City Regional Hospital**

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Rebecca Holso, BSN</td>
<td>Gretchen Landers, CNP</td>
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</table>
**The Rehab Doctors – Rapid City**
Trevor Anderson, MD  
Christopher Dietrich, MD  
Peter Vonderau, MD

**Avera Medical Group Neurology**
Jeffrey Boyle, MD  
Karen Garnaas, MD  
Carol B. Nelson, MD  
William Rossing, MD  
Lisa Viola, DO  
Todd Zimprich, MD

**Avera Medical Group Rehabilitation & Physical Medicine**
Thomas Ripperda, MD  
Jose Santos, MD

**Yankton Medical Clinic**
Judith Peterson, MD

**Veteran’s Administration**
Xuesheng Feng, MD, PhD (Sioux Falls, SD)  
Laurie Weisensee, MD (Fort Meade, SD)

**Other**
Mei He, MD  
Misty Jensen, PharmD  
Kathleen Kovarik, PhD  
Robert MacLachlan, MD  
Gauravjot Sandhu, MD  
Shane Schellpfeffer, EdD  
Susan Schrader, PhD  
Adil Shaikh, MD

**Faculty with Appointments/Cross Appointments to Section of Ethics and Humanities**
Sheila Agee, MFA  
Cameo Anders, JD (Anders Law Office)  
Jordan Baye, PharmD, MA (Sanford Health)  
Mark Beard, MD (Family Medicine)  
Lora Black, RN, MS (Sanford Health)  
Ann Cook, PhD (University of Montana)  
LuAnn Eidsness, MD (Internal Medicine)  
Peter Hoesing, PhD (Dakota State University)  
Wendell Hoffman, MD (Internal Medicine)  
Kenneth Kirton, MD (Family Medicine)  
Beth Mikkelsen, MD (Internal Medicine)  
Ann Pederson, ThD (Augustana University)  
Shelley Nielson, MD (Obstetrics/Gynecology)  
Ellen Schellingier, MA (Sanford Health)  
Matthew Simmons, MD (Neurology)  
Gretchen Spars, MDiv, MA (Sanford Health)

**NEUROSCIENCES CASE CONFERENCE  2018–2019**

This clinical and teaching session is held each Monday from 12:00-1:00 PM at Sanford USD Medical Center.

**STUDENT RECOGNITIONS**

- In 2019, the Section of Ethics and Humanities has nominated three students for bioethics scholarships: Susan Wik and Dan Pfeifle (Freeman Scholarship for Excellence in Bioethics); Sam Jensen (Excellence in Neurosciences Award)
- The department provides funding, as requested, to allay expenses for medical students to attend the annual meeting of the American Academy of Neurology.
PUBLICATIONS 2018

Articles:


Books/Book Chapters:


Joseph V, Devasahayam J, Goyal M. “Sleep issues in myopathic and muscular dystrophic patients”. (Sleep Issues in Neuromuscular Disorders, Springer Publications-2018)

Posters:

Poster presentation, Annual Meeting of the Consortium of Multiple Sclerosis Centers May 2018: “Patients’ Preferences and Willingness-to-Pay for Disease-Modifying Therapies: A Discrete Choice Experiment in the U.S.” (Natasha Frost, MD; Jerome Freeman, MD; Diana Brixner, PhD; Jane Mort, PharmD; James Clem, PharmD; Surachat Ngorsuraches, PhD)