PEDIATRICS

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PEDS 710 PEDIATRIC PALLIATIVE CARE 4 Credit Hours ELECTIVE

Palliative care is an approach to care that improves the quality of life of pediatric patients and their families facing the challenges associated with life-threatening illness, through the prevention and relief of suffering by means of early identification and impeccable assessment and treatment of distressing symptoms to include pain (inclusive of physical, psychosocial and spiritual). The learner will be exposed to the evidence-based palliative care to include goals of care conversations, shared decision-making models, and advanced care planning; integrative and complementary medicine modalities; caregiver support; bereavement and staff debriefings; and end of life symptom management within an interdisciplinary team approach. This four-week rotation provides learners with a team-based, inclusive pediatric palliative care experience with attentiveness to individualizing the patient care and research/academic learning based on the learner’s skills and interests (for example - medical students primarily interested in adult medicine are still warmly welcomed and the team will foster translating the learning into adult-health-models). Medical knowledge - Recognize suffering to include physical (pain and distressing symptoms) and psychosocial, spiritual, and emotional layers - Identify pharmaceutical and integrative therapy methods to manage complex symptoms to include chronic and acute pain, dyspnea, intractable nausea, seizures, and end of life symptoms - Understand philosophies regarding patient-provider communication and ethical principles relevant to decision making - Patient Care - Foster learning from various interdisciplinary team members (child life, healing touch practitioner, social worker, nurses, case manager) to recognize collaborate dynamics of palliative care - Participate in mentored goals of care conversation and care plan development with patients and families - Professionalism - Demonstrate compassion, empathy, integrity, respect, and altruism - Reflect on the need for “care for the caregiver” (self-care) as part of professionalism and resiliency; learn about various self-care approaches to prevent compassion fatigue and to foster mindfulness in medicine - Activities: Literature searches, Readings, Patient interaction, Journal club presentation.

Instructor: Drs. Weaver and MacFayden
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.

Typically Offered: Each four weeks
Capacity: 1

Visiting Student Information: This course is not available to Visiting Students.

PEDS 722 PED CARD/CV DISEASE 4 Credit Hours ELECTIVE

This elective is intended for students desiring to further their knowledge of congenital heart disease. It should be especially useful for those who will practice pediatrics, family medicine, thoracic surgery or internal medicine. The student on Pediatric Cardiology spends time in the pediatric outpatient clinic with each of the several pediatric cardiologists on faculty. The average number of residents on the elective is two per month. There are over 1,200 outpatient visits to the pediatric cardiology clinic yearly, of which 480 patients are new. There is an average of 5 or 6 outpatient sessions per week with approximately 8 patients per session. The student sees the patient simultaneously with the staff cardiologist. The student on the elective will be required to research a cardiology topic in-depth and deliver a 20-minute oral presentation to the cardiology staff.

Activity-Hours/Week Rounds (Clinic)-33 Didactic conferences-5 Independent learning-2 Research project-0 Independent patient care-0

Instructor: Dr. Howard Hsu.
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.

Typically Offered: Each four weeks
Capacity: 1
Location: Children’s Hospital Omaha

Visiting Student Information: This course is NOT available to visiting students.

PEDS 724 PEDIATRIC EMERGENCY MEDICINE ELECTIVE 4 Credit Hours ELECTIVE

This four-week elective will provide you with opportunities to assess, evaluate, and support patients and families in a pediatric emergency room or pediatric urgent care setting. Course Objectives: Medical Knowledge - Describe the diagnosis and management of common pediatric emergency medicine problems - Demonstrate basic skills in the area of cardiopulmonary resuscitation. Patient Care - Demonstrate a systematic approach to evaluating pediatric emergency patients - Manage time effectively in completing patient care tasks. Professionalism: - Demonstrate integrity, compassion, respect, altruism and empathy when interacting with patients and families - Demonstrate punctuality and ability to complete patient care tasks efficiently. Methods: Medical Knowledge - Complete suggested readings as outlined in the course documents - Participate in teaching sessions and conferences. Patient Care - Evaluate patients in the emergency room and urgent care centers - Communicate to patients and families diagnostic findings and various treatment options that fit within their social and cultural context. Evaluation: Medical Knowledge, Patient care Professionalism - Evaluate patients in the emergency room and urgent care centers - Global performance evaluation (100%). Scheduled Activities: Shifts-12/ 8-hour shifts, Research Project-0 hrs/wk, Didactic Conferences-2 hrs/wk, Independent Patient Care-0 hrs/wk, Independent Learning-6 hrs/wk.

Instructor: Dr. Lisa White; lwhite@childrensomaha.org.
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.

Typically Offered: Each four weeks
Capacity: 1
Location: Children's Hospital Omaha.

Visiting Student Information: This course is NOT available to visiting students.
Peds 726 Ped Hemat Onc/Bone Mar 4 Credit Hours
Elective
This elective in Pediatric Hematology/Oncology and Bone Marrow Transplantation will encompass the activities of the program at both the University of Nebraska Medical Center and at Children's Memorial Hospital. One half of the month is spent at UNMC. During this block, you will round on BMT patients, see new Hematology/Oncology consults, and participate in the Hem/Onc and BMT clinics. The block spent at Children's is largely in the clinic. Inpatient rounds are done as time permits. You will be asked to see new consults and to participate in outpatient activities. Students desiring to spend additional time can have the opportunity to participate in clinical and laboratory research or have in-depth involvement in the transplantation program. Activity-Hours/Week Rounds-30 Didactic conferences-5 Independent learning-5 Research project-0 Independent patient care-0
Instructor: Dr. James Harper
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.
Typically Offered: Each four weeks
Capacity: 2 Location: UNMC and Children's Hospital Omaha
Visiting Student Information: Visiting Students are not to contact faculty or clinical departments prior to acceptance through VSAS. Doing so is considered a professional breach and may disqualify the student from being offered a rotation.

Peds 727 Human Cytogenetics 4 Credit Hours
Elective
The goal of this course is to familiarize students with cytogenetic, FISH, microarray, and molecular genetic procedures, nomenclature, and reporting. Activity
Typically Offered: FALL/SPR

Peds 728 Newborn Medicine 4 Credit Hours
Elective
The student will serve as a sub-intern under the supervision of a staff neonatologist and the pediatric house officer. The student will be exposed to the critical care of sick and high risk neonates and the convalescent care of recovering, growing neonates. Emphasis will be placed on resuscitation of the high risk infant, recognition of signs and symptoms and neonatal illness with the formation of a differential diagnosis and treatment plan; monitoring of physiologic parameters; calculation of fluid, electrolyte and nutrition requirements; assessment of blood gasses and respiratory treatment strategies. The student will have the opportunity to participate with staff and house staff in minor procedures. Scheduling and assignment will be as per house staff and attending neonatologist. Didactic instruction will be provided through daily rounds, conferences, and lectures. There is an average of 45 new admissions per month with an average of 24 patients per day. Activity-Hours/Week Rounds-40 Didactic conferences-3 to 4. Independent learning-0. Research project-0. Independent patient care-0.
Instructor: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.
Typically Offered: Each four weeks.
Capacity: 2
Visiting Student Information: Visiting Students are not to contact faculty or clinical departments prior to acceptance through VSAS. Doing so is considered a professional breach and may disqualify the student from being offered a rotation.

Peds 729 Ped Endocrinology 4 Credit Hours
Elective
This elective provides the student with experience in diagnostic problems of growth, pubertal development, thyroid dysfunction and adrenal disorders in both inpatient and outpatient settings. Further experiences can be gained in disturbances of carbohydrate metabolism. The student will be responsible for the daily care of inpatients, endocrine consultations and implementation of tolerance tests with the supervision of the staff. Activity-Hours/Week Rounds/Clinic-40 Didactic conferences-2 Independent learning-0 Research project-0 Independent patient care-0
Instructor: Dr. Carera.
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.
Typically Offered: Each four weeks.
Capacity: 1 Location: Pediatric Endocrinology Clinic, 8200 Dodge St.
Visiting Student Information: Visiting Students are not to contact faculty or clinical departments prior to acceptance through VSAS. Doing so is considered a professional breach and may disqualify the student from being offered a rotation.

Peds 730 Ped Gastroenterology 4 Credit Hours
Elective
The student will: Become broadly familiar with gastrointestinal pathophysiology in infants, children and adolescents; Assist in evaluation of patients with gastrointestinal, hepatobiliary and nutritional disorder; Participate in gastrointestinal procedures; and gain some expertise in interpretation of gastrointestinal histopathology. Students will learn to evaluate pediatric patients with chronic and infectious diarrhea, abdominal pain, constipation, malabsorption, inflammatory bowel disease, gastrointestinal infections, Hirschspring’s disease, neonatal cholestatis, growth failure, chronic vomiting and liver disease. Students will develop an understanding of gastrointestinal physiology and development. Basic principles of enteral and parenteral nutrition in Pediatrics will be reviewed. The student will participate in the care of both hospitalized and ambulatory patients at Children's Hospital and Outreach Clinics. The student may choose to emphasize inpatient and outpatient activities based upon his/her experiences and individual career goals and needs. Teaching rounds are performed on a daily basis. The medical student would work closely with pediatric house officers as well as the attending. No night call will be taken by the student. Activity-Hours/Week Rounds-35 Didactic conferences-5 Independent learning-4 Research project-0 Independent patient care-0
Instructor: E. Rubin Quiros.
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.
Typically Offered: Each four weeks.
Capacity: 1 Location: Children's Hospital Omaha.
Visiting Student Information: Visiting Students are not to contact faculty or clinical departments prior to acceptance through VSAS. Doing so is considered a professional breach and may disqualify the student from being offered a rotation.
**Peds 731 Genetics & Metabolic Dis 4 Credit Hours**

**Elective**

The student will be helped to develop skills in diagnosing, managing and counseling patients with inherited and acquired disorders of metabolism, genetic defects and congenital malformations. At the end of the rotation, the student should: Be able to identify the more common pediatric syndromes and associations; Be familiar with major etiologic categories of congenital anomalies; Be adept at obtaining a family history (3rd generation pedigree); Be familiar with the unique features of a dysmorphologic examination; Understand the nature of non-directive counseling; Know the major psychosocial, ethical and legal implications of genetic testing and counseling; and Present a short (10 minute) report and discussion of a genetic disorder, metabolic condition or congenital anomaly. Activity-Hours/Week. Rounds/Clinics-20. Didactic conferences-4. Independent learning-6. Research project-10.

**Instructor:** Dr. Louis Starr.

**Contact:** Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.

**Capacity:** 1.

**Typically Offered:** Each four weeks.

**Visiting Student Information:** Visiting Students are not to contact faculty or clinical departments prior to acceptance through VSAS. Doing so is considered a professional breach and may disqualify the student from being offered a rotation.

**Peds 732 Pediatric Pulmonary 4 Credit Hours**

**Elective**

The pediatric Pulmonology clinic meets 2 half days per week. In these clinics, the student, under the supervision of the staff, evaluates new and follow-up patients with all forms of pediatric lung diseases. Approximately 40% of these patients have cystic fibrosis and are followed for routine care. The remainder includes a significant number of patients with asthma, recurrent pneumonia, chronic cough, tuberculosis, recurrent aspiration pneumonias and many other assorted disorders. The student will learn to perform and interpret basic pulmonary function tests. Inpatient rounds are made daily with the staff on patients hospitalized for cystic fibrosis or other pulmonary disease. Consultations are performed on other services’ patients with pulmonary conditions. Activity-Hours/Week Rounds-36 Didactic conferences-5 Independent learning-0 Research project-0 Independent patient care-0

**Instructor:** Dr. Heather Thomas; Ithomas@childrensomaha.org

**Contact:** Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.

**Typically Offered:** Each four weeks.

**Capacity:** 1.

**Visiting Student Information:** Visiting Students are not to contact faculty or clinical departments prior to acceptance through VSAS. Doing so is considered a professional breach and may disqualify the student from being offered a rotation.

**Peds 733 Pediatric Neurology 4 Credit Hours**

**Elective**

This course offers students clinical pediatric neurology experience with specific focus on evaluation, diagnosis and treatment of the neurological diseases in children from conception to the adult state under close supervision of the faculty. The goal of this four-week elective is to provide the student with the clinical experience of evaluating children with neurological disorders and thereby acquire skills necessary to perform the pediatric neurologic exam and to develop a diagnostic and therapeutic approach to common neurologic problems in children.

**Activity-Hours/Week Rounds-35 Didactic conferences-5 Independent learning-2 Research project-0 Independent patient care-0**

**Instructor:** Dr. Paul Larsen.

**Contact:** Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.

**Typically Offered:** Each four weeks.

**Capacity:** 1.

**Visiting Student Information:** Visiting Students are not to contact faculty or clinical departments prior to acceptance through VSAS. Doing so is considered a professional breach and may disqualify the student from being offered a rotation.

**Peds 734 Infectious Disease 4 Credit Hours**

**Elective**

This elective provides the student with an opportunity for in-depth study of clinical and laboratory aspects of infections in children. Students will be expected to read a course syllabus and will be asked to present one or more interesting cases at scheduled conferences. Students will learn to evaluate neonates, infants and children with a wide range of infectious diseases. This is primarily an inpatient experience with about 10% of patients seen in the outpatient clinic. Students are required to see all new consults initially with residents or fellows. The students perform a complete workup and assessment, then present their findings and recommendations to the attending physician on daily rounds. Three laboratory tutorial sessions are taught during the month, each lasting 1 to 2 hours. In addition, rounds are made each day in the microbiology laboratory and students are responsible for monitoring all ongoing microbiology test/results. Students are required to do considerable outside reading on their patients’ illnesses. A selected reading list is provided to all students at the beginning of the rotation and students are responsible for all the material therein. Regular “journal Club” sessions are held throughout the month to discuss selected chapters from Infectious Diseases of Children. Activity-Hours/Week. Rounds-40. Didactic conferences-5. Independent learning-5. Research project-0. Independent patient care-0.

**Instructor:** Jessica Snowden.

**Contact:** Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.

**Typically Offered:** Each four weeks.

**Capacity:** 1.

**Visiting Student Information:** This elective is NOT available for visiting students.
Peds 736 Dvlpmntl Pedi Prcticum 4 Credit Hours
ELECTIVE
This elective will provide the student with an orientation to chronic care and developmental disabilities through both clinical and didactic experiences. The student will observe two comprehensive interdisciplinary patient evaluations and summary conferences, attend core curriculum presentations, observe developmentally disabled children in the classroom, attend approximately seven different types of clinics, and receive experience in the use of diagnostic screening techniques such as the Denver Developmental Screening Test. The student will become familiar with the role of the physician in the diagnosis, evaluation and clinical care of children, youth, and adults with developmental disabilities and chronic handicapping conditions. Activity-Hours/Week. Rounds-30. Didactic conferences-5. Independent learning-10. Research project-2. Independent patient care-0.
Instructor: Dr. Ellis.
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.
Typically Offered: Each four weeks.
Capacity: 1.
Visiting Student Information: Visiting Students are not to contact faculty or clinical departments prior to acceptance through VSAS. Doing so is considered a professional breach and may disqualify the student from being offered a rotation.

Peds 737 Rheumatology 4 Credit Hours
ELECTIVE
The purpose of this elective is to provide students with practical experience in pediatric rheumatology. The experience gained through this elective will enable the student to diagnose and manage pediatric patients with rheumaticologic disorders in primarily an outpatient setting although students will be involved in select inpatient consults. Under the guidance of a board certified rheumatologist, the student will see a broad spectrum of patient problems ranging in age from toddler to young adulthood. Students will be expected to present a topic of their interest the last week of the rotation and will participate in pre-test and post-testing to evaluate growth and identify areas of strengths and weaknesses. Activity-Hours/Week. Rounds-30. Didactic conferences-5. Independent learning-5. Research project-0. Independent patient care-0.
Instructor: Dr. Adam Reinhard.
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.
Typically Offered: Each four weeks.
Capacity: 1.
Visiting Student Information: This course is NOT available to visiting students.

Peds 741 Pediatric Global Health Clinical Elective 4 Credit Hours
The UNMC Pediatric Global Health Clinical Elective provides medical students the opportunity to gain insight into pediatric healthcare delivery during a 4-week rotation in a low and middle income country. Course objectives may vary according to sites where students travel to, however, the following objective should be met with the course requirements for grading: a. Discuss relationship between health and the social determinants of health. b. Identify barriers to health and healthcare in low- and middle-resource settings. c. Demonstrate knowledge of the major causes of morbidity and mortality in the region in which they are working. d. Demonstrate an understanding of healthcare delivery strategies in low and middle-resource settings. e. Demonstrate an understanding of cultural and ethical issues in working with underserved populations. f. Demonstrate the ability to adapt clinical skills and practice in a resource-constrained environment. g. Demonstrate humility, flexibility, professionalism, and cultural sensitivity when working within a different healthcare context.
Prerequisite: Peds 703.
Instructor: Dr. Shirley Delair.
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.
Typically Offered: Each four weeks.
Capacity: 1.
Visiting Student Information: This course is NOT available to visiting students.

Peds 742 Ped Nephrology 4 Credit Hours
ELECTIVE
The student will become familiar with pediatric aspects of genito-urinary tract disease; specifically, Medical management of congenital renal or G-U anomalies; Acute and chronic urinary tract infections; Evaluation of asymptomatic proteinuria and hematuria including urine sediment examination; Evaluation and therapy of hypertension; Medical management of acute or chronic renal failure including dialysis; Management of acute or chronic glomerulonephritis. The medical student will receive journal articles regarding common pediatric nephrology problems. Reading of pertinent sections of current pediatric textbooks is also recommended. Independent research and reading regarding nephrology patient problems will be expected. Activity-Hours/Week. Rounds-30. Didactic conferences-2. Independent learning-8. Research project-0. Independent patient care-0.
Instructor: Dr. Mauch.
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.
Typically Offered: Each four weeks.
Capacity: 1.
Visiting Student Information: Visiting Students are not to contact faculty or clinical departments prior to acceptance through VSAS. Doing so is considered a professional breach and may disqualify the student from being offered a rotation.
PEDS 750 HONORS PEDS 4 Credit Hours
ELECTIVE
The purpose of this rotation is to engage the student interested in pediatric medicine in a variety of activities that will improve the student’s ability to evaluate pediatric problems and formulate a thorough problem list, differential diagnosis for each problem, and a logical management plan. Additionally, the student will gain experience that will prepare them for a pediatric residency. This rotation is geared toward self-learning and improving one’s ability to think critically. These general objectives will be achieved through the following activities or tasks: Case tutorials with Dr. Finken; Attending conferences such as the Patient Management Conference and Pediatric Grand Writing a reflection paper. Develop a plan to maintain and foster personal happiness and balance during residency by discussion and reading “The Intern Blues.” Activity-Hours/Week. Tutorials-10. Didactic conferences-3. Independent learning-5. Paper-1. Prerequisite: Plans to MATCH in Pediatrics or Medicine/Pediatrics. Instructor: Dr. Finken. Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu.. Typically Offered: July, October, and March. Capacity: 2. Visiting Student Information: This course is NOT available to visiting students.

PEDS 751 PEDS SUBINTERNSHIP 4 Credit Hours
ELECTIVE
This senior pediatric elective is an opportunity for medical students to receive hands-on experience in a wide variety of hospitalized pediatric patients. One track is that the student will function as a sub-intern for pediatric patients admitted at UNMC. The other option is for the student, functioning as a sub-intern, to admit, evaluate, manage and discharge patients on the wards at Children’s Hospital in a rotating fashion with pediatric interns. This will be done under the guidance and supervision of the senior pediatric resident and the attending physician. Admissions will be assigned to maximize the student’s exposure. The student will be expected to take in-house night call. Activity-Hours/Week. Rounds-40+. Didactic conferences-2. Independent learning-0. Research project-0. Independent patient care-0. Instructor: Dr. Jason Burrows Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu. Typically Offered: Each four weeks. Capacity: 2. Visiting Student Information: This elective is NOT available to visiting students.

PEDS 754 OFF CAMPUS AFFILIATE 4 Credit Hours
ELECTIVE
Senior students may request credit for any off-campus program, which offers unusual opportunities in clinical or investigative pediatrics. Advance departmental approval is required. An Off-Campus Elective Application form must be submitted for this experience. (See Off-Campus Elective Application procedures.) Prerequisite: Off-Campus Approval form completed. Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu. Typically Offered: Each four weeks. Capacity: Variable. Location: Variable. Visiting Student Information: This course is NOT available to visiting students.

PEDS 760 GEN PEDI PRECEPTORSHIP 4 Credit Hours
ELECTIVE
Pediatricians throughout the state have expressed an interest in having medical students spend four or more weeks with them in their private office. You must contact the preceptor on an individual basis to reserve a time for this service. A list of preceptors is available in the Department of Pediatrics from Joy Higgins. Prerequisite: Pre-arranged with designated preceptors. Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu. Typically Offered: Each four weeks. Capacity: Variable. Visiting Student Information: This course is NOT available to visiting students.

PEDS 764 OFF CAMPUS NON-AFFLN 4 Credit Hours
ELECTIVE
Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu. Typically Offered: Each four weeks. Capacity: Variable. Location: Variable (within NE). Visiting Student Information: This course is NOT available to visiting students.

PEDS 766 RESEARCH 4 Credit Hours
ELECTIVE
A student interested in participating in an ongoing active research area within the Department of Pediatrics may arrange with the appropriate faculty to devote an elective month to laboratory investigation. By registering for the Pediatric Research elective and a related clinical subspecialty elective in consecutive months, the student could arrange a flexible program permitting simultaneously enrolling for a graduate level course in a related basic science subject. Prerequisite: Pre-arranged with research advisor. Contact: Patty Davis, M4 Curriculum Coordinator, Room 5163 UT, 402-559-9538, pddavis@unmc.edu. Typically Offered: Each four weeks. Capacity: Variable. Visiting Student Information: This course is NOT available to visiting students.