#### **COURSE SYLLABUS & SCHEDULE**

### COURSE: PAS 614 Clinical Experience in Pediatrics

#### ACADEMIC CREDIT: 2 semester hours

**COURSE DESCRIPTION:** Four week required rotation in a pediatrics office clinical setting. Students engage in all aspects of patient care, including history taking, physical examination, and treatment plan design and evaluation. Students' application of patient and family education to treatment and preventive measures is emphasized.

#### **COURSE GOAL**

The goal of this course is to provide a foundation for the physician assistant student to prepare to enter into pediatrics following graduation. The knowledge and skills developed during this clinical rotation will prepare the student to enter into clinical practice by exposing the student to a wide diversity of patient populations in the pediatric setting.

**PREREQUISITES:** Successful completion of the PA program didactic year.

#### **COURSE COORDINATOR:**

Faculty Name and Title: Kelli Huesman, MPAS, PA-C, Associate Professor, Director of Clinical Education
Email: <u>khuesman1@udayton.edu</u>
Phone: 937-229-3281
Fax: 937-229-2903
Office Hours: Variable, please contact directly for an appointment
Contact policies: Available during office hours, or through email

Faculty Name and Title: Sean Haig, MPAS, PA-C, Clinical Faculty Email: <u>shaig1@udayton.edu</u> Phone: 937-229- 4845 Fax: 937-229-2903 Office Hours: Variable, please contact directly for an appointment Contact policies: Available during office hours, or through email

CLINICAL PRECEPTOR: As assigned by clinical faculty

TIME/LOCATION: Offsite at clinical facility, location TBD, see schedule for definitive information

## **RECOMMENDED TEXTS:**

#### Anatomy and Physiology:

Moini, Jahangir (2020). *Anatomy & Physiology for Health Professionals* (3<sup>rd</sup> ed). Burlington, MA: Jones & Bartlett Learning. ISBN: 978-1284151978.

#### **Clinical Medicine:**

Papadakis, M.A., McPhee, S.J., & Rabow M.W. (2020) *Current Medical Diagnosis and Treatment 2020*. New York, NY: Lange Medical Books/McGraw Hill. ISBN: 978-1260455281.

#### PAS614 Clinical Experience in Pediatrics

#### History and Physical Exam:

Bickley, L (2016). *Bates' Guide to Physical Examination and History Taking* (12<sup>th</sup> ed). Wolters Kluwer Health/Lippincott Williams & Wilkins. ISBN: 978-1469893419

#### Labs:

Desai, S., Katta, R. (2020). *Clinician's Guide to Laboratory Medicine* (4<sup>th</sup> ed. Pocket). Houston, TX: MD2B. ISBN: 978-1937978105.

#### **Pharmacology:**

Brenner, G.M. & Stevens, C. (2017). *Brenner and Stevens' Pharmacology* (5<sup>th</sup> ed). Philadelphia, PA: Elsevier. ISBN: 978-0323391665.

#### Procedures:

Clinical Procedures for Health Professionals (2017). *Clinical Procedures for Health Professionals* (1<sup>st</sup> ed). Philadelphia, PA: Jones & Bartlett. ISBN: 978-1284032413

#### **Radiology:**

Herring, W. (2020). *Learning Radiology: Recognizing the Basics* (4<sup>th</sup> ed). Philadelphia, PA: Mosby/Elsevier. ISBN: 978-0323567299.

#### Study System:

Sedrak, M, & Massey, S. (2011). *Classroom to Clinic Study System: Personal Professor for Clinical Rotations and PANCE/PANRE Review.* Philadelphia, PA: F.A. Davis Company. ISBN 978-0803623538.

Brown, P.C., Roediger, H.L., & McDaniel, M.A. (2014). *Make it Stick: The Science of Successful Learning*. United States of America: Library of Congress Cataloging-in-Publication. ISBN: 978-0674729018.

#### Research:

Blessing, J.D. & Forister, J.G. (2020). *Introduction to Research and Medical Literature for Health Professionals* (5<sup>th</sup> ed.). Burlington, MA: Jones and Bartlett Learning. ISBN: 9781284153774.

#### **Dermatology:**

Habif, M.D., *et al.* (2013). *Skin Disease Diagnosis and Treatment* (4<sup>th</sup> ed.). Philadelphia, PA: Elsevier, Inc. ISBN: 978-0323442220.

## Orthopedics:

Armstrong A.D. & Hubbard M.C. (2015). *Essentials of Musculoskeletal Care* (5<sup>th</sup> ed.). Rosemont, IL: AAOS. ISBN: 978-1625524157.

Hoppenfeld, S. (1976). *Physical Examination of the Spine & Extremities*. Norwalk, CT: Appleton & Lange. ISBN: 978-0838578537.

## Pediatrics:

Marcdante, K.J. & Kliegman, R.M. (2019). *Nelson Essentials of Pediatrics*. Philadelphia, PA: Elsevier, Inc. ISBN: 978-0323511452.

## **Emergency Medicine:**

Cline, D.M., et al. (2013). *Tintinalli's Emergency Medicine Just the Facts*. China: McGraw Hill. ISBN: 978-0071744416.

## Women's Health:

Casanova R, Chuang A, Goepfert AR, Hueppchen NA, Weiss PM. (2019) *Beckmann and Ling's Obstetrics and Gynecology, (8th ed)*. Philadelphia: Wolters Kluwer. ISBN: 978-1496353092.

## Mental Health:

Black, D.W., & Andreasen, N.C. (2014). *Introductory Textbook of Psychiatry*. 6th ed. Arlington, VA: American Psychiatric Publishing. ISBN 978-1-58562-470-6.

# OVERALL KNOWLEDGE, SKILLS AND ATTRIBUTES FOR ALL CLINICAL ROTATIONS (SCPEs)

## • Knowledge:

- Understand and explain the etiologies, risk factors, underlying pathologic processes and epidemiology for the conditions encountered in clinical experience
- Demonstrates the appropriate history and physical exam skills, identifying normal and abnormal findings, and is able to counsel patients who present for acute, chronic and preventative conditions
- Adequately formulates a differential diagnosis based on H&P findings and is able to develop and carry out management plan based on the differential
- Select and interpret appropriate diagnostic or laboratory studies
- Manage presenting conditions to include understanding the indications, contraindications, side effects, interactions, and adverse reactions of pharmacological and non-pharmacologic agents

## • Skills: Interpersonal and Communication

- Appropriately adapts communication style to the context of the individual patient interaction, displaying respect, compassion and integrity, with the ability to show sensitivity and responsiveness to patients' culture, age, gender and disabilities
- Accurately and adequately document information regarding care process for medical, legal, quality and financial purposes

## • Clinical reasoning and problem solving

• Identifies the appropriate site of care for presenting conditions, including the identification of emergent cases and those requiring referral and admission

- Professionalism
  - Work effectively with preceptor and other health care professionals to provide patient centered care
  - Promptly completes assigned tasks
  - Consistently arrives at appointed time
  - Recognizes personal learning needs and limitations, seeks to rectify them
  - Accepts and uses constructive criticism from preceptor and staff

## LEARNING OUTCOMES SPECIFIC FOR PEDIATRICS

## INFANT

- Elicit a history for an infant (0-2 years old) health maintenance visit to include essential aspects such as nutrition, sleep, developmental milestones, and parent/caregiver concerns
- Perform a physical exam of an infant, adapting the exam in accordance to the infant's age, including primitive reflexes and observation of developmental milestones, when able
- Provide anticipatory guidance to the parent/caregiver of an infant regarding nutrition, sleep, safety, and parent/caregiver well-being and support
- Recommend age-appropriate screening for infants, including development and autism screening, anemia and lead testing, and oral health screening

## CHILD

- Elicit a history for a child (3-11 years old) health maintenance visit to include essential aspects such as nutrition, sleep, behavior, school performance, activity, and parent/caregiver concerns
- Perform a physical exam of a child, adapting the exam in accordance to the child's age and developmental stage
- Provide anticipatory guidance to the child and parent/caregiver regarding nutrition, sleep, safety, physical activity, screen time, and peer and family relationships
- Recommend age-appropriate screening for children, including vision, hearing, and dyslipidemia screening

## ADOLESCENT

- Obtain the essential elements of a health maintenance visit of an adolescent (12-18 years old), to include history and physical examination, utilizing the HEADDSS mnemonic, preferably with the patient separate from his/her parent/caregiver
- Identify Tanner stage on physical exam, and discuss pubertal changes with a pre-adolescent or adolescent patient
- Provide anticipatory guidance to the adolescent patient regarding nutrition, sleep, safety, physical activity, screen time, risky behaviors, and peer and family relationships
- Recommend age-appropriate screening for adolescents, including vision, hearing, dyslipidemia, and depression screening
- Sensitively discuss matters of minor consent and confidentiality with an adolescent patient

## GENERAL

- Recommend age-appropriate immunizations for infants, children and adolescents, and address parent/caregiver concerns regarding vaccinations
- Evaluate infant, child, and adolescent growth utilizing documentation with a growth chart
- Accurately document a pediatric health maintenance visit
- Gather a history and perform an appropriate exam, then formulate a differential diagnosis and management plan for a pediatric patient presenting with respiratory symptoms

- Gather a history, perform an appropriate exam with otoscopy, then formulate a differential diagnosis and management plan for a pediatric patient presenting with ear pain
- Gather a history and perform an appropriate exam, then formulate a differential diagnosis and management plan for a pediatric patient presenting with a rash

## **CLINICAL OBJECTIVES:**

- 1. Differentiate between disease etiologies, risk factors, underlying pathologic process and epidemiology for common conditions for patients seen in the pediatric population.
- 2. Analyze signs and symptoms for commonly seen diseases and disorders encountered in pediatrics related to the most frequent presentation for a given disorder.
- 3. Interpret sufficient, essential, and accurate history to direct an appropriate physical examination and develop correct diagnoses commonly for patients seen in pediatrics
- 4. Correlate physical findings with patient's history in order to reach a differential diagnosis for a pediatric patient.
- 5. Manage general medical and surgical conditions seen in pediatrics to include understanding the indications, contraindications, side effects, interactions and adverse reactions of pharmacological agents and other relevant treatment modalities in the post-operative setting.
- 6. Analyze how to order and then interpret diagnostic labs and tests which are commonly used in the pediatric setting to include radiographs, ECGs, laboratory tests.
- 7. Interpret appropriate interventions for prevention of conditions commonly seen in pediatrics
- 8. Adapt their communication style to the context of all patient interactions in the pediatric environment.
- 9. Develop reliable, accurate, concise, organized documentation for patient interactions to include a well child exam, new patient evaluation and routine progress note.
- 10. Communicate effectively in both written and verbal format with all members of the pediatric health care team.
- 11. Conduct respectful interviews of pediatrics patients and their care giver, with empathy and sensitivity.
- 12. Educate patients and their families regarding present pediatrics conditions.
- 13. Counsel patients and their families regarding preventive health care in pediatrics, i.e.: lifestyle changes, screenings, or immunizations.
- 14. Distinguish between risks, benefits, and alternatives for procedures commonly encountered in pediatrics in the outpatient and possibly inpatient settings.
- **15.** Synthesize abnormal physical examination findings for a pediatrics patient and correlate these findings to possible diagnoses.
- 16. Formulate appropriate medical management based on evaluation of the patients who present with an acute problem.
- 17. Develop appropriate medical management based on evaluation of the patients who present with a chronic problem.
- 18. Discern level of care and disposition for patients seen in pediatrics.
- 19. Maintain a respectful attitude toward and work appropriately with preceptors, staff and patients at all times.
- 20. Analyze personal learning needs and limitations while in the pediatrics setting and seeks to rectify them.
- 21. Effectively use constructive criticism from preceptors and staff to aid in the development of the medical professional.
- 22. Maintain timely attendance, dress appropriately, and promptly complete assigned tasks.

- 23. Perform an oral presentation to the preceptor in a clear and concise manner which will include pertinent patient history, physical exam findings, most likely diagnosis and a proposed management plan.
- 24. synthesize a management plan to include medications, patient education, activity modifications, dietary considerations, referrals, and follow-up care

## **Teaching Methods:**

Teaching methods may include any or all of the following:

- 1. Direct teaching from preceptors
- 2. Hospital Grand Rounds
- 3. Reading assignments

## ASSESSMENT CRITERIA

Student competency in the Pedicatric Rotation: Instructional objectives are determined based on the following criteria:

•	Written evaluation from preceptor	40%
	The preceptor will monitor the student's clinical skills and knowledge progression with a	
	formative Mid-Rotation Evaluation, and will conduct a formal review of the student's	
	performance to determine the student's competence with a summative End of	
	Rotation Evaluation (EOR)	
٠	PAEA – EOR	40%
•	Participation in clinical call back week at End of Rotation	10%
٠	Mandatory Electronic Entries and Written Assignments	10%

Includes 1 written assignment, weekly reports, student evaluation of preceptor, and patient encounters. EOR Evaluations and Student Evaluations of Preceptor/Site are due no later than 5 pm on the Wednesday following the completion of the rotation.

TOTAL 100%

## This final course grade is a Pass/Fail based on passing the EOR exam with a minimum of a 70%, passing the Final EOR evaluation and completing all the required criteria as directed above.

In order to successfully pass this course the student must:

- Score a minimum of 3 or higher for each competency on the preceptor evaluation. Any students receiving 1's or 2's in the categories of medical knowledge, interpersonal/communication skills, technical and clinical skills, medical decision making, or professionalism may fail the rotation. The final decision will be based on an in-depth conversation with the preceptor, the Director of Clinical Education and the student.
- University of Dayton PA Program utilizes the PAEA EOR exams. The students will take an EOR exam correlating with their current rotation. These exams will require a proctor during the exam, and with the exception of the Orthopedic EOR which is given in Isidore, the testing will be completed through the PAEA Examdriver website. The cost for the EOR exams for each rotation will be covered by the student. The PAEA EOR exams consist of a 120-question exam built on the blueprint and topic list. The exams are peer reviewed by PA educators and statistically validated. The scoring of the PAEA EOR exams are completed on a scaled scoring system. This is based on a nationwide performance of PA students for that specific examination. Those students who fall one standard deviation below the mean will have failed the exam and be required to remediate, see below of remediation details.

- If the student does not pass the exam, he/she will be required to take a remedial exam within 7 days. The student is required to cover the cost of the remedial exam. The student will be allowed to proceed with the next scheduled rotation without delay. If a student fails both the initial EOR exam and the remedial exam within the same course, this will constitute the failure of the clinical course. Failure of a clinical course will delay the student's progression to graduation. The failed course will be repeated in the following clinical year.
- Participate in the Clinical End of Rotation seminars.
- Submit mandatory electronic entries.

\*\*The final grade/decision in regards to the passing of each Clinical Rotation will be made by the Director of Clinical Education (DCE) based on the mid-rotation and end of rotation evaluations, the results of the EOR exams and the communication held between the DCE and the preceptors working with each student.

## EXPECTED CLINICAL PATIENT & PROCEDURAL LOGGING:

There are three (3) required areas of clinical requirements that will be documented longitudinally throughout the entire clinical year experience. Students are expected to encounter patients across the life span, as well as patient encounters regarding preventive health care, prenatal visits, emergent, acute, and chronic visits. Additionally, specific medical procedures (foley placement, pap smears, pelvic examination, suture, and IV placement) are required to be performed at a level necessary for clinical practice.

- 1. Students will perform appropriate history and physical examination of patients in the following age groups across the life span:
  - birth-18; 19-64, and over 65
- 2. Students will evaluate and recommend appropriate treatment for:
  - preventive health care encounters
  - prenatal encounters
  - emergent encounters
  - acute encounters
  - chronic encounters
  - pre-, intra-, post- operative encounters
  - well child encounters
- 3. Students will efficiently perform the following procedures:
  - foley placement
  - pap smears/pelvic examination
  - suture
  - IV placement/venipunctures

Students will track their progress in meeting these requirements by completing the "Clinical Encounter Booklet". The Clinical Encounter Booklet contains the forms for preceptors to complete rating the student on his/her performance. Due to the large number of expected encounters for evaluating patients throughout the life span a portion of each target number will be used to evaluate completeness. Students' progress will be reviewed during call back weeks, and if it is determined the student is at risk to not meet the competencies, he/she will meet with the Director of Clinical Education to address these deficiencies in order to meet the requirements prior to anticipated graduation. Please refer to the table below for details regarding the clinical patient and procedural tracking:

A passing score of a 3 or above on a Likert scale of (1-5) is required for each evaluated encounter to be considered passing.

Clinical patient and procedural tracking	Target Number of Encounters	Minimum Number Required
Life Span		
Birth – 18	25	15
Age 19-64	150	15
Age 65 and above	50	5
Health Care Settings		
Preventive Health	150	15
Prenatal	5	5
Well Child Exams	5	5
Emergent	150	15
Acute	150	15
Chronic	150	15

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Pre, intra, post-	50	15 (5 apiece)
operative		
Well child	5	5
Procedures		
Foley placement	5	5
Pap smears/Pelvic	5	5
exam		
Suturing	15	15
IV	5	5
placement/venipuncture		

## DISCLAIMER

This syllabus is intended to give the student guidance regarding what will be covered during the clinical rotation and will be followed as closely as possible. However, the instructor reserves the right to modify, supplement, and make changes in the course as necessary to meet course objectives. Every effort will be made to adhere to the clinical schedule but alternations may be necessary due to unforeseen circumstances. Any changes will be announced via email communication.

## ACADEMIC INTEGRITY

From **The University of Dayton Academic Honor Code: A Commitment to Academic Integrity:** Regardless of motive, student conduct that is academically dishonest, evidences lack of academic integrity or trustworthiness, or unfairly impinges upon the intellectual rights and privileges of others is prohibited. Cheating on examinations or other graded evaluations consists of willfully copying or attempting to consult a notebook, textbook, or any other source of information not authorized by the instructor; willfully aiding, receiving aid or attempting to aid or receive aid from another student during an examination or other evaluation; obtaining or attempting to obtain copies of any part of an examination or other evaluation (without permission on the instructor) before it is given; having another person take the exam; or any act which violates or attempts to violate the stated conditions of an examination or other evaluation. Cheating on an assignment consists of willfully copying or attempting to copy all or part of another student's assignment or having someone else complete the assignment when class assignments are such that students are expected to complete the assignment on their own. It is the responsibility of the student to consult with the instructor concerning what constitutes permissible collaboration and what materials are allowed to be consulted.

## PLAGIARISM STATEMENT Plagiarism is defined in the University of Dayton Student Handbook.

Plagiarism involves:

- Quoting directly from any source of material including other students' work and materials from research consultants without appropriately citing the source and identifying the quote
- Knowingly citing an incorrect source
- Using ideas (other than information that is common knowledge) from any course of material including other students' work and materials from research consultants without citing the source and identifying the borrowed material/ideas
- Faculty may establish additional guidelines for plagiarism ignorance is no excuse for plagiarism. Students should be aware of their own responsibilities in appropriately quoting and citing sources used.

Additional information on plagiarism is available through the UD Roesch Library website (http:library.udayton.edu/faqs/howto/plagiarism.php).

Students should be aware that the University has access to software designed to detect plagiarized passages and work. This software will be applied randomly or at the instructor's discretion. Detection of plagiarized passages or work can result in disciplinary action.

## STUDENTS WITH DISABILITIES

If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact the LTC's Office of Learning Resources (OLR) to discuss reasonable accommodations. Please contact OLR at 937-229-2066 (TTY 937-229-2059 for deaf/hard of hearing), by email at disabilityservices@udayton.edu or stop by OLR in the LTC, room 023 Roesch Library. If you have an Accommodation Letter provided by OLR, please contact me to discuss. If you need assistance accessing print material including textbooks and electronic material such as PDF documents, please review the OLR website information about alternative formats under Disability Resources.

## **ON CAMPUS LEARNING SUPPORT**

The University of Dayton's Office of Learning Resources (OLR) is a free service for all students seeking to perform their best academically. OLR offers a variety of personalized and structured resources that help students achieve academic excellence, such as tutoring, academic coaching (test taking strategies, time management counseling, and study techniques), Supplemental Instruction (SI), services for international students, and writing support. OLR is located on the ground floor of Roesch Library. If you wish to request a tutor, you must go to go.udayton.edu/tutoring and follow the given instructions. Please contact OLR at 937-229-2066 or learningresources@udayton.edu if you have any questions.

## Exam Topic List

The lists below are taken from the PAEA End of Rotation Exam, suggested topic list to study for both the rotation and for the end of rotation exam. This list mirrors the NCCPA blueprint topics and will therefore help prepare students for a successful completion of the PANCE.

Dermatology	Cardiovascular
Dermatitis (diaper, perioral)	Atrial septal defect
Drug eruptions	Coarctation of the aorta
Lichen planus	Patent ductus arteriosus
Pityriasis rosea	Tetralogy of Fallot
Stevens-Johnson syndrome	Ventricular septal defect
Toxic epidermal necrolysis	Acute rheumatic fever
Erythema multiforme	Kawasaki disease
Acne vulgaris	Hypertrophic cardiomyopathy
Lice	Syncope
Scabies	
Androgenetic alopecia	Pulmonary
Exanthems	Acute bronchiolitis
Verrucae	Croup
Burns	Pneumonia (bacterial, viral)
Urticaria	Respiratory syncytial virus
Contact dermatitis	Asthma
Atopic dermatitis	Foreign body
Tinea	Hyaline membrane disease
Impetigo	Cystic fibrosis
	Hematology
Ears, Nose, and Throat/Ophthalmology	Anemia
Conjunctivitis	Bleeding disorders
Orbital cellulitis	Leukemia
Strabismus	Lymphoma
A	
Acute otitis media	Neutropenia
Allergic rhinitis	Brain tumors
Allergic rhinitis Hearing impairment	
Allergic rhinitis	Brain tumors
Allergic rhinitis Hearing impairment Mastoiditis Otitis externa	Brain tumors Hemophilia
Allergic rhinitis Hearing impairment Mastoiditis	Brain tumors Hemophilia
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Allergic rhinitisHearing impairmentMastoiditisOtitis externaTympanic membrane perforationEpistaxisAcute pharyngotonsillitisEpiglottitisOral candidiasisPeritonsillar abscess	Brain tumors         Hemophilia         Lead poisoning         Endocrinology         Short stature         Hypothyroidism         Hyperthyroidism         Hypercalcemia         Obesity         Diabetes mellitus         Orthopedics/Rheumatology
Allergic rhinitisHearing impairmentMastoiditisOtitis externaTympanic membrane perforationEpistaxisAcute pharyngotonsillitisEpiglottitisOral candidiasisPeritonsillar abscessGastrointestinal/Nutritional System	Brain tumors         Hemophilia         Lead poisoning         Endocrinology         Short stature         Hypothyroidism         Hyperthyroidism         Hypercalcemia         Obesity         Diabetes mellitus

Colic	Osgood-Schlatter disease
Gastroesophageal reflux disease	Scoliosis
Constipation	Congenital hip dysplasia
Pyloric stenosis	Avascular necrosis of the proximal femur
Intussusception	Neoplasia of the musculoskeletal system
Hirschsprung disease	Juvenile rheumatoid arthritis
Foreign body	
Encopresis	Infectious Disease
Hepatitis	Atypical mycobacterial disease
Jaundice	Pinworms
Duodenal atresia	Epstein-Barr disease
Inguinal hernia	Erythema infectiosum
Umbilical hernia	Herpes simplex
Niacin deficiencies	Influenza
Vitamin A deficiency	Mumps
Vitamin C deficiency	Roseola
Vitamin D deficiency	Rubella
Lactose intolerance	Measles
	Varicella infection
Urology/Renal	Hand-foot-and-mouth disease
Cryptorchidism	
Hydrocele	Psychiatry/Behavioral Medicine
Paraphimosis	Child abuse and neglect
Phimosis	Attention-deficit/hyperactivity disorder
Testicular torsion	Autism spectrum disorder
Enuresis	Feeding or eating disorders
Hypospadias	Depressive disorders
Vesicourethral reflux	Anxiety disorders
Glomerulonephritis	Disruptive, impulse-control and conduct disorders
Cystitis	Suicide
Neurology/Developmental	
Normal growth and development	
Immunization guidelines	
Anticipatory guidance	
Teething	
Febrile seizures	
Epilepsy	
Meningitis	

Turner syndrome	
Down syndrome	

DATE OF SYLLABUS REVISION: 11//2021, DCE