



# Pediatric Gastroenterology Hepatology and Nutrition Fellowship

## Fellowship Curriculum



## Curriculum

### Overview

Overview of three-year fellowship call and elective schedule.

Block	Year 1	Year 2	Year 3
<b>GI and hepatology Inpatient Service</b>	2 weeks each month	2 weeks/4 weekends	3 weeks/4 weekends
<b>GI and Hepatology Specialty Clinics and Procedures(2)</b>	2 weeks each month	1/2 day per week	1/2 day per week
<b>Continuity Clinic</b>	1/2 day per week	1/2 day per week	1/2 day per week
<b>Research</b>	4 Weeks	80%	80%
<b>Vacation</b>	4 Weeks	4 weeks	4 weeks

### I. First year

#### Inpatient block

- Call schedule
  - Two weeks per month
  - Monday 7AM-Monday 7AM
- Clinic
  - Continuity clinic
    - Weekly- Thursday 12:30pm-4:00pm
    - Winchester Clinic – Monthly
- VCE/ph impedance reading Tuesday/Friday

## Outpatient Block

- Outpatient blocks consist of two full weeks dedicated to outpatient specialty clinics and procedures. Saturday and Sunday off.

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
AM	MOR/OPSC	Winchester*/ Hepatology	DHC	Infusion clinic	Continuity clinic
PM	MOR/OPSC OR Hepatology Clinic*	Acute clinic 1 <sup>st</sup> half of year AND Hepatology Clinic*		Acute clinic OR EoE Clinic*	Didactics/ Division meeting

\*See below for further details

- Clinic
  - Winchester clinic – Monthly
  - Hepatology – (second half of the year)
  - Transplant – (second half of the year)
  - EoE- (second half of the year)
  - IBD infusion clinic- Twice per month
  - Continuity clinic
    - Weekly – Friday 9:30am-12:30pm
- DHC/OPSC/MOR scopes
  - Two full days per month for procedures
- VCE/ph impedance reading
  - VCE/ph impedance will be read by the fellow on Tuesday/Friday
  - Urgent and inpatient studies will be read out of schedule

## Elective

- 4 weeks of elective time in January
  - Nutrition
  - Pathology
  - Radiology
  - SLP
  - Motility
    - 1 week rotation in CHKD

## Conferences

- Academic conferences
  - Best practice, MMI, Clinical case
    - 10 conferences per year
  - Pathology conference, Radiology conference

- Monthly
- Journal Club
  - 3 conferences per year
- Motility conference
  - Twice per year

## II. Second year

- Call schedule
  - Two full weeks of inpatient service per year (7am Fri-7am Fri)
  - 4 weekends per year (7pm Friday-Monday 7am)
- Clinic
  - Specialty clinics
    - Optional ½ day weekly
  - Continuity clinic
    - Weekly – Friday 9:30am-12:30pm
  - Winchester
    - Twice per academic year
- Procedures
  - Optional ½ day weekly
- Research
  - 80% of clinical time is fully dedicated to Research
- Conferences
  - Academic Updates – Twice yearly

## III. Third year

- Call schedule
  - 3 full weeks of inpatient service per year (7am Fri-7am Fri)
  - 4 weekends per year (7pm Friday-Monday 7am)
- Clinic
  - Specialty clinics
    - Optional ½ day weekly
  - Continuity clinic
    - Weekly – Friday 9:30am-12:30pm
  - Winchester
    - Twice per academic year
- Procedures
  - Optional ½ day weekly
- Research
  - 80% of clinical time is fully dedicated to Research
- Conferences
  - Academic Updates – Twice yearly

## **Academic Conferences**

### 1. Fellow Presented conferences

#### **Clinical Case Conference**

The fellow will choose a challenging case (clinic, inpatient) and generate several clinical questions. The goal is to use evidence based data to answer clinical questions. (please refer to core curriculum topics that should be covered during Fellow's conferences)

Day/Location: Friday, 2:00pm. Pediatric Conference room, Old Medical School Building.

#### **Morbidity and Mortality Conference**

The fellows are expected to present the clinical outcomes and complications of patients under the care of the GI Division staff. Systems and judgment errors are reviewed in a constructive and positive manner in an effort to continually improve clinical decision-making. Plans are developed to implement new procedures and policies to circumvent similar errors / complications in the future. Individual judgment errors are addressed as necessary by the faculty and Program Director.

Day/Location: Friday, 2:00pm. Pediatric Conference room, Old Medical School Building.

#### **Best Practice Conference**

The fellow will choose a topic (please refer to core curriculum topics that should be covered during Fellow's conferences) and discuss evidence practice guidelines. Fellow should be able to develop a proposed guideline and/or algorithm based on the evidence discussed.

Day/Location: Friday, 2:00pm. Pediatric Conference room, Old Medical School Building.

#### **Journal Club**

Fellow are required to choose an article from a peer reviewed journal. Article will be discussed with faculty members. The goal is to improve critique skills, keep up to date with most recent published data and discuss application for clinical practice.

Day/Location: Friday, 2:00pm. Pediatric Conference room, Old Medical School Building.

#### **Pathology Conference**

This conference meets monthly. Fellows and faculty members of the Division of Gastroenterology and a member of the Department of Pathology review specific cases and biopsy or pathology specimen. Fellows are expected to discuss the case and present gross findings on endoscopy when pertinent.

Day/Location: First Wednesday of the month, 4:30pm. Pathology Conference room, Main Hospital.

### Radiology Conference

This conference meets monthly. Fellow must prepare a list of interesting/challenging cases to be discussed in a multidisciplinary meeting with radiologist. During conference fellow will provide an overview of the case with pertinent clinical information.

Day/Location: Third Tuesday of the month, 4:00pm. Radiology Conference room, Main Hospital.

### Motility Conference

This conference meets 2-3 times per year. Fellow prepares a list of interesting/challenging cases to be discussed in a multidisciplinary meeting with CHKD Motility Faculty. During conference fellow will provide an overview of the case with pertinent clinical information.

Day/Location: TBD

## 2. Faculty Presented Conferences

### Acute Care Lectures

This meeting will meet monthly or twice per months for the first 4 months of the academic year. Faculty be in charge of presenting these lectures.

Day/Location: Friday at 1:00pm, Pediatric Conference room, Old Medical School Building.

### Core Curriculum Lecture series

This meeting will meet monthly. Faculty will be in charge of presenting these lectures/cases to be discussed with all the fellows.

Day/Location: Wednesday at 12:00, Pediatric Conference room, Old Medical School Building.

### Board Review Lecture

This meeting will meet monthly. UVA and DC Children's faculty will be in charge of presenting these lectures.

Day/Location: Wednesday at 9:00am, Pediatric Conference room, Old Medical School Building/Zoom.

## Gastroenterology and Hepatology Conference schedule

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
AM			Board Review Lecture (monthly)	8:00-9:00AM Pediatric Grand rounds (weekly)	
Noon		12:00-1:00PM Fellows Forum (bimonthly)	12:00-1:00PM Core Curriculum Lecture (bimonthly)		

PM		4:00-5:00PM Radiology Conference (monthly)	4:30-5:30PM Pathology Conference (monthly)		2:00-3:00PM GI Fellow's and Faculty Conference /Division Meeting
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## Core Curriculum topics

- I. Core Curriculum Lecture Series
  - Jaundice and Cholestasis in the Newborn
  - GI and hepatology physiology
    - Gastric/pancreatic hormones
    - Motility
    - Small bowel and colonic absorption/secretion
  - Intestinal Failure
  - Motility Disorders
    - Achalasia
    - Gastroparesis
    - Pseudo obstruction
  - Gastrointestinal Reflux Disease
  - Nutrition
    - Parenteral Nutrition
  - GI and allergy
    - FPIES, autoimmune enteropathy, EoE
  - General GI potpourri: hemorrhoids, GT care and troubleshooting, PICC line, CVL, EToH locks, Fever with central line
  - H. pylori, PUD, GI and small bowel ulcerations
  - Polyps and polyposis syndromes
  - Functional GI disorders
    - Irritable bowel syndrome
    - Rumination syndrome
    - Functional abdominal pain
    - Functional dyspepsia
  - Inflammatory bowel disease
    - Therapies
      - Biologics
      - Immunomodulators
      - Surgery
      - Nutrition
  - Hepatic diseases
    - Wilson's disease
    - Autoimmune hepatitis
    - Alpha 1 anti trypsin deficiency
    - Infectious hepatitis
  - Hepatic cirrhosis and portal hypertension

- Management
  - Oral therapies
  - Surgery
  - Interventional procedures

## II. Acute Care Lectures

- Acute gastrointestinal bleeding
  - Etiologies by age
  - Endoscopic interventions
- Acute liver failure
  - Pathophysiology
  - Etiologies
  - Work up
  - In-patient Management
- Transplant - Rejection
  - Acute cellular rejection
  - Antibody Mediated Rejection
  - Chronic rejection
- Transplant – Immediate post op complications and long term follow up
  - Discuss post-transplant complications
  - Long term follow up and immunosuppression management
- Diarrhea
  - Infectious, secretory, osmotic diarrhea



## **Methods of Evaluation for Fellows**

In order for the gastroenterology training program to assess its ability to achieve the goals and objectives, an evaluation process is in place that includes faculty, staff, and observation, and review of in training examination results.

### 1. Global assessment

Semi-annually, fellows meet individually with the Program Director to formally review their evaluations. Evaluations are based on Pediatric Subspecialty Milestones developed by the ACGME and Academy of Pediatrics. Milestones are knowledge, skills, attitudes, and other attributes for each of the ACGME competencies organized in a developmental framework from less to more advanced. The Pediatrics Subspecialty Milestones are designed to describe changes in observable attributes of the learner across the continuum of medical education from residency through fellowship into practice. The following link provides a copy of Pediatric Subspecialty Milestones, which will be used through training to evaluate fellows progress

(<https://www.acgme.org/Portals/0/PDFs/Milestones/PediatricsSubspecialtyMilestones.pdf>)

### 2. Monthly Feedback sessions with Program Director

Monthly, fellows will meet with Program Director for an informal feedback session. This meeting is an informal session to provide the fellow with immediate feedback as per their performance during their inpatient rotation, inpatient rotation and procedure skills within the last month and to provide strategies for improvement.

### 3. Weekly Feedback Session with Faculty

Weekly, fellows will meet briefly with the attending on service. This meeting is to provide the fellow with immediate feedback as per their performance during the inpatient service week and to discuss strategies for improvement.

### 4. Written examination

All fellows participate in the annual In Training Examination offered by the American Board of Pediatrics. The results are reviewed and an individualized program of instruction and learning is developed based upon the fellows' performance.

## **Methods for Evaluating Fellowship Program and Faculty**

1. Yearly ACGME Survey
2. New Innovations Faculty evaluations

- Quarterly
- 3. Faculty Evaluations with Penny Guy
- Yearly