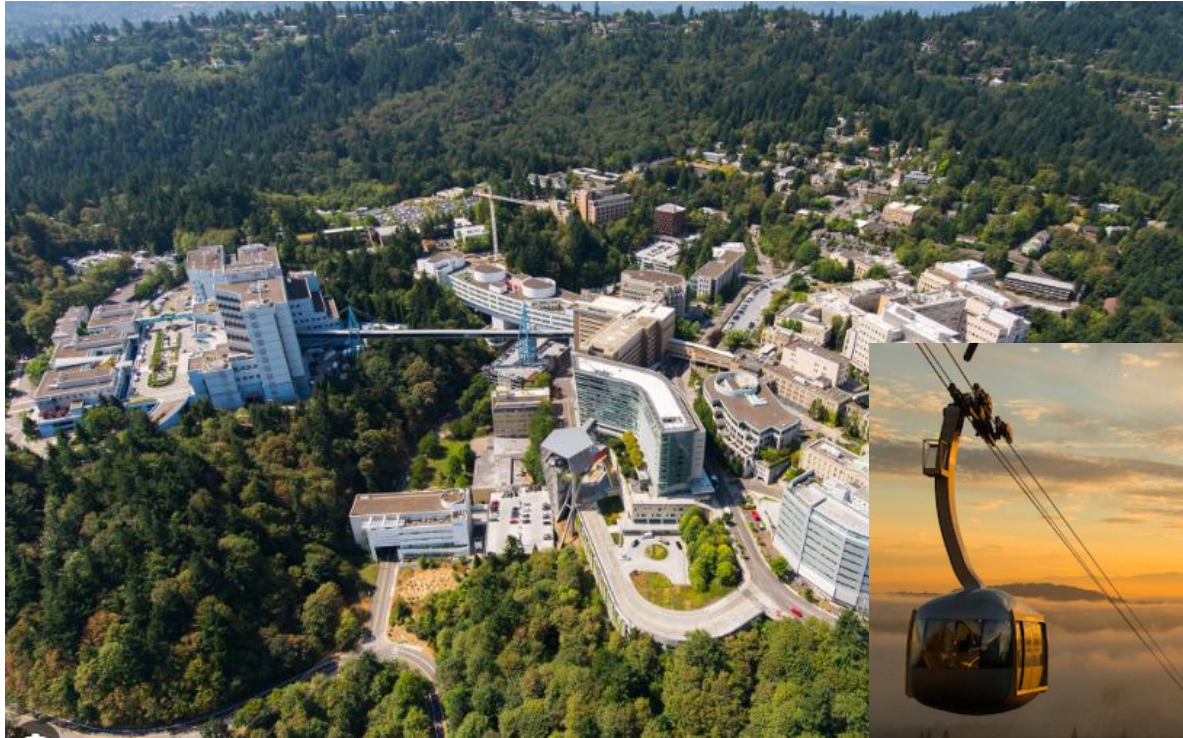


Welcome to OHSU Nephrology and Hypertension Fellowship program



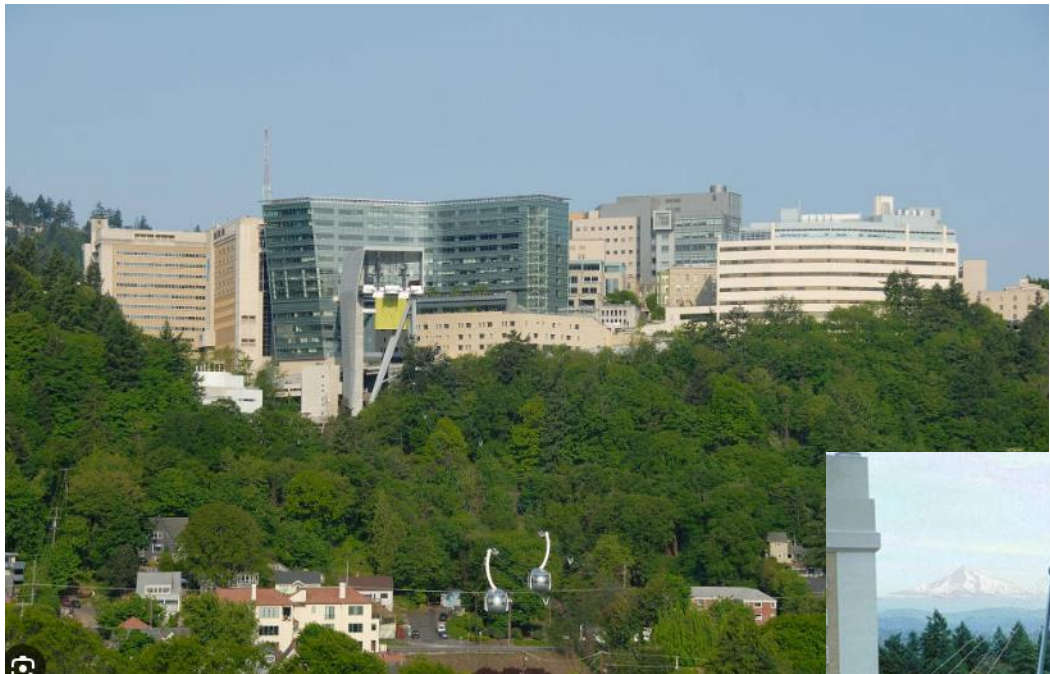
We've been training future nephrologists since 1972



In 2004, The Schnitzer corporation donated 20 acres of riverfront property to expand the OHSU campus.



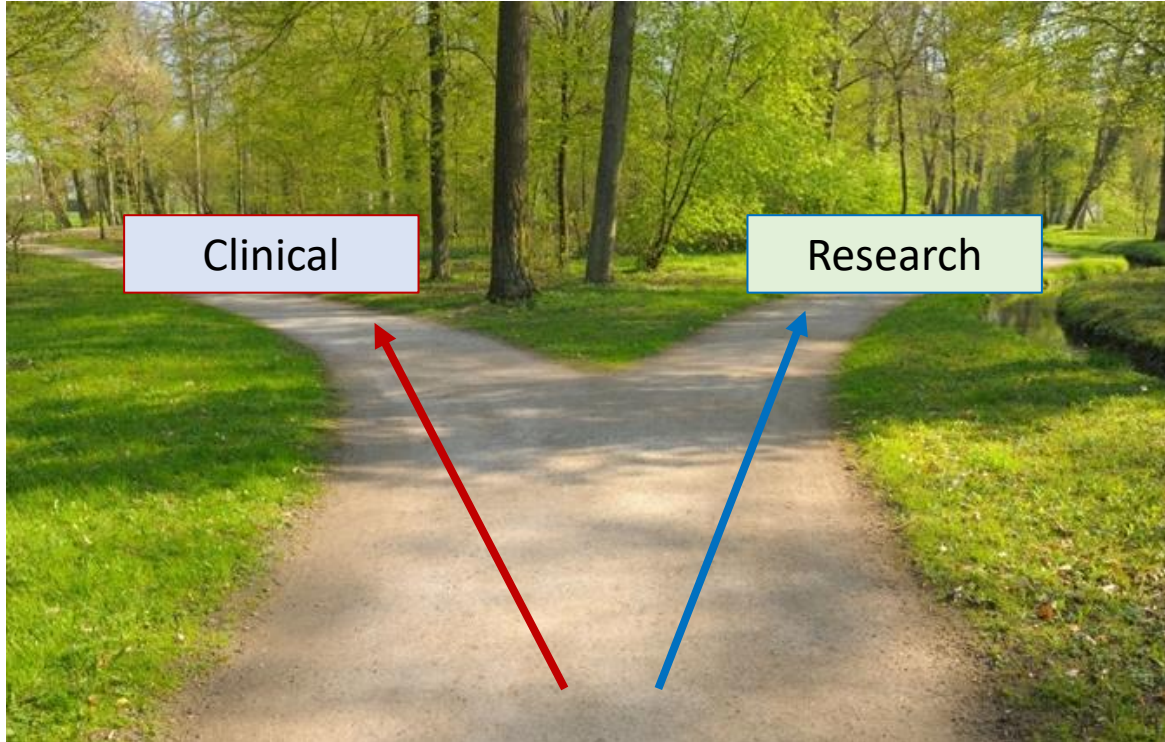
The OHSU medical school was chartered in 1887. Marquam Hill (above) started with a 20-acre tract donation in 1917.



The vast majority of our training is in these two buildings.



We have two main pathways for fellows to follow during training with us:



These paths start with the same, foundational first year of training.

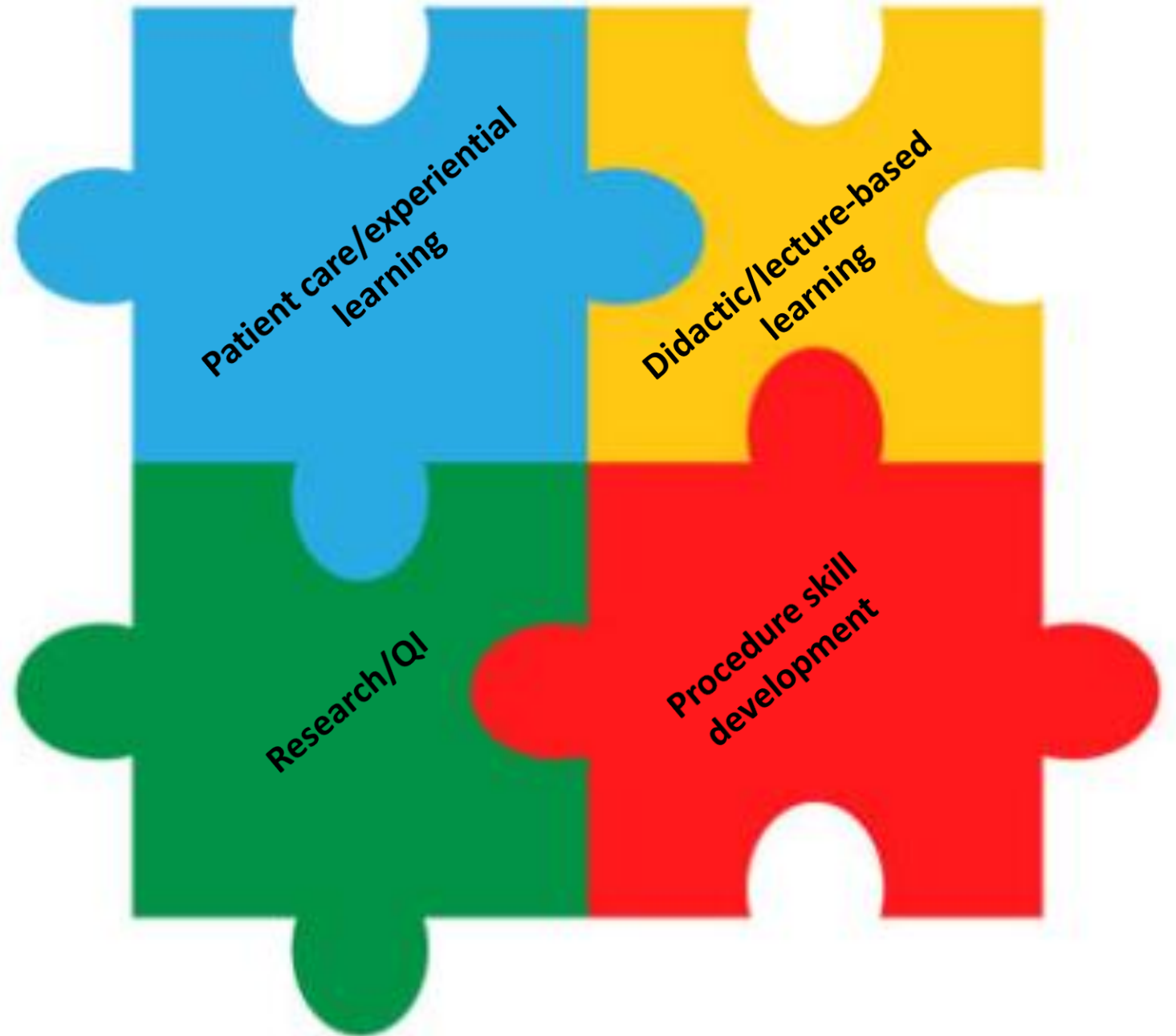
We also have options to personalize your training For your goals...



These additional training pathways do not lead to separate accreditation. But they can be a way to explore areas of interest in nephrology to support future training or to develop a niche area for future practice.

Many fellows pick and choose electives across these categories to personalize their training to meet individual interests and goals.

These are the primary
tenets or components of
nephrology training at
OHSU



Patient care/experiential learning

Inpatient

Outpatient

Year 1:

- 5 months OHSU consult service
- 3 months VA service
- 2 months transplant service
- 2 months ambulatory (outpatient clinics/dialysis)

Year 2 clinical:

- 3.5 months of OHSU consult service
- 2.5 months of VA service
- 6 months research

Year 2 research:

- 1 month OHSU consult service
- 1 month VA
- 10 months research

Year 3 research:

- 12 months research

• ½ day of clinic each week

- Year 1 alternating clinics
 - OHSU HTN clinic
 - VA CKD clinic
- Year 2 alternating clinics
 - OHSU CKD clinic
 - VA CKD clinic
 - *Home dialysis clinic (monthly)*
 - *VA outpatient dialysis shift*

Inpatient rotations

- Fellow rotations are in HALF MONTH blocks. This provides:
 - Greater variety through the year
 - Better spread of ambulatory months across the year. During ambulatory rotations, fellows don't have weeknight call and they use vacation time

	July 21	Aug 21	Sept 21	Oct 21	Nov 21	Dec 21	Jan 22	Feb 22	Mar 22	Apr 22	May 22	June 22	
Fellow 1	1st - 15th	Training	OHSU Consults	Ambulatory	OHSU Consults	VA Consults	Transplant	OHSU Consults	Ambulatory	VA Consults	OHSU Consults	VA Consults	Transplant
	16th - 31st	OHSU Consults	VA Consults	Transplant	Ambulatory	OHSU Consults	VA Consults	OHSU Consults	Transplant	OHSU Consults	Ambulatory	OHSU Consults	VA Consults
Fellow 2	1st - 15th	Training	OHSU Consults	Transplant	Ambulatory	OHSU Consults	OHSU Consults	Ambulatory	Transplant	Ambulatory	VA Consults	OHSU Consults	OHSU Consults
	16th - 31st	VA Consults	OHSU Consults	VA Consults	Transplant	VA Consults	OHSU Consults	OHSU Consults	OHSU Consults	Ambulatory	Transplant	VA Consults	OHSU Consults
Fellow 3	1st - 15th	Training	VA Consults	OHSU Consults	Transplant	Ambulatory	VA Consults	OHSU Consults	VA Consults	OHSU Consults	Transplant	Ambulatory	VA Consults
	16th - 31st	OHSU Consults	OHSU Consults	Ambulatory	VA Consults	OHSU Consults	Transplant	Ambulatory	OHSU Consults	OHSU Consults	VA Consults	OHSU Consults	Transplant

OHSU Consult service

- 1 attending
- 2 gen neph fellows
- Often a student
- Often a resident

Census: 20-30

**Consultative
only**

VA service

- 1 attending
- 1 gen neph fellow
- Often a student
- Often a resident

Census: 5-12

**Consultative
only**

OHSU+VA Transplant service

- 1 attending
- 1 fellow
- Surgery and pharmacy team members

Census: 10-15

**Consultative
&
Admitting**

OHSU ESRD service

- 1 PA or 1 attending

Call


- All call is home call
- Mon-Thurs call rotation includes gen neph fellows on OHSU Consults (2), VA service (1), and transplant (1 - when gen neph is on txp)
 - In addition, senior fellows on research each cover one weeknight call night per half month block
 - First year fellows on ambulatory blocks do NOT take weeknight call
- Fri-Sun call is covered by the weekend team



Weekends

Weekend Call

- 1 attending for general nephrology, 1 attending for transplant
 - 2 fellows (includes 1st and 2nd year fellow)
 - Sometimes a medicine resident
- **Fellow A:**
 - On call Friday night
 - Rounds Saturday 7am-1pm
 - Rounds and coverage Sunday 7am-Monday 7am
 - **Fellow B:**
 - Rounds and coverage Saturday 7am-Sunday 7am
 - Rounding 7am-1pm Sunday



We all work as a team to get patients seen on the weekends.

Fellows work 16-17 weekends a year, split between long-call and short-call. This leaves ~2/3 of weekends as non-call weekends.

Outpatient Clinic

- Year 1

- HTN clinic (every other week) 12 months

- VA CKD clinic (every other week)

24 months

- Year 2

- VA CKD clinic (every other week)

- OHSU CKD clinic (every other week) 12 months

- Home dialysis clinic (monthly clinic) 12 months

- VA outpatient hemodialysis shift 12 months

All of our clinics are continuity clinics, meaning you have a panel of your own patients who you follow over time.

Home Dialysis Clinic

- OHSU Nephrology has a robust and growing home dialysis program, which has increased 25% over the past several years.
- We also have a collaborative agreement with Kaiser Permanente NW. They have a very large peritoneal dialysis program.
- Senior fellows attend ½ day of home dialysis clinic monthly.
- We also encourage fellows to attend a home dialysis training conference



VA Hemodialysis continuity experience (2nd year)



Second-year fellows are each assigned to 10 patients on a VA outpatient hemodialysis shift. The VA hemodialysis unit is located in the Portland VA Medical Center – meaning, on the same campus at the main hospital and inpatient work.

Second-year fellows will see these patients once each month, write monthly dialysis notes, and lead care plans for these patients, in conjunction with a linked VA staff nephrologist.

This is an invaluable training experience for fellows in learning about caring for outpatient hemodialysis patients.

Ambulatory

30	31	1 AM VA IR Observation PM VA Clinic	2 VACATION	3 VACATION
6 LABOR DAY	7 VACATION	8 VACATION	9 VACATION	10 AM OHSU Amyloid Clinic (Dr. Avasare) PM Research Time/Meeting (Dr. Raphael)
13 AM VA Dialysis Tech School PM Peds Neph Clinic (Dr. Al Uzri and Dr. Jenkins)	14 AM VA Transplant Clinic PM OHSU GN Clinic (Dr. Avasare)	15 AM OHSU Transplant PM VA Clinic	16 Transplant	17 Transplant

Outpatient experiences during ambulatory can include:

- Pediatric and adolescent nephrology clinic
- Pediatric and adult transplant clinic
- Urology stone clinic
- Palliative care clinic
- Vascular surgery clinic
- GN clinic
- Dialysis tech observation
- IR procedure observation

And more....

We talk with fellows in advance to help tailor ambulatory options to personal interests.

Mon	Tue	Wed	Thu	Fri
Consults	Consults	Consults	16 AM VA Dialysis Tech School CONSULTS COVERAGE PM (2 nd years SIM lab)	17 AM VA IR Observation Reading time
20 AM VA Dialysis Tech School PM HTN Clinic	21 Vacation	22 Vacation	23 Vacation	24 Vacation
27 Vacation	28 AM VA Transplant Clinic PM CKD Clinic Virtual Dr. Wusirika	29 AM OHSU Transplant Clinic PM VA Clinic	30 AM VA IR Observation PM Clinic Dr. Rueda Virtual	1 Transplant

Didactic learning

Division Conferences

	Mon	Tues	Wed	Thurs	Fri
AM		Medicine Grand Rounds (virtual)		Transplant conference	Case conference/Research Conference (mixed media)
Noon	Journal club (virtual)	Fellow didactic (f2f)		Fellow path conference (every 1 st Thursday)	Biopsy conference (every 3 rd Friday)

Weekly didactic lectures

Didactic lectures take place once a week, generally on Tuesdays from 12-1

Topic	Current Faculty
Basics of Hemodialysis	Dirkx
Acute Kidney Injury (1.5 hrs)	Rope
Basics of Peritoneal Dialysis	Chopra
Transplant Overview – initial work-up	Rehman
Outpatient Calls	Weiss
Hypertension	Weiss/Rope
CPRS Encounters	Gustafson
CRRT (1.5 hrs)	Rope
How to give a Presentation	Weiss
Secondary Causes of Hypertension	Rueda
Procedures in Nephrology	Wusirika
Estimation of Renal Function	Weiss
Basic Complications of HD	Chopra
Chronic Kidney Disease	Rope
Renal Potassium Handling	Dirkx
Clinical Potassium disorders	Rope
Basic Renal Research	McCormick
Renal Imaging	Foster
Vascular access: The Basics	Wusirika
Cardiorenal Syndrome	Rope
Anemia in CKD	Gustafson
Infectious Complications of PD	Weiss
Urinalysis	Greenburg
Advanced cardiac device therapy and nephrology	Ryan
Systemic calcium/Phos/Vit D handling	Dirkx

Topic	Current Faculty
Central Line Placement Simulation Lab	Pak/Wusirika
Non-infectious Complications of PD	Weiss
Glomerulonephritis I (GN)	Avasare
Addiction - stigma	Byler (fellow)
Glomerulonephritis II (Nephrotic)	Avasare
Hepatorenal Syndrome	Rueda
Metabolic Acidosis	Fong
Renovascular Disease	Rope
Vascular Access-Advanced	Wusirika
Renal Acidification	Rueda
HCV/HIV and Renal Disease	Ahn
Acute Intoxications	Rueda
CKD-MBD (2 hours)	Dirkx
Basic Science Session/RCOR	McCormick
Water balance	Cohen
Living Kidney Donors	Wusirika
SLE Nephritis	Avasare
Medical management of stones	Cohen
Palliative care and renal disease	Shafir
Paraproteinemia	Ahn
Cancer and the kidney	Rope

This is just a sampling of our didactic sessions provided throughout the year...

Boot Camp

	July 5, 2021	July 6, 2021	July 7, 2021	July 8, 2021	July 9, 2021
Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-8:30				Transplant Conference	Clinical Case Conference
8:30-9:00				Webex	Webex
9:00-9:30		EPIC Training	EPIC Training	Hanan/Peter	Hanan/Peter
9:30-10:00		Webex	Webex	Marilyn/Eric	Marilyn/Eric
10:00-10:30				Naveen/Justin	Naveen/Justin
10:30-11:00				Morning Rounds	Morning Rounds
11:00-11:30				VA100-335 & UH4A	VA100-335 & UH4A
11:30-12:00	Holiday				
12:00-12:30		Lunch Break	Lunch Break	Basics of HD	Research Conference
12:30-1:00				Dr. Dirkx	Webex
1:00-1:30				Webex	Presentations - Dr. Weiss
1:30-2:00			Finish Onboarding items		Webex
2:00-2:30		Finish Onboarding items		Library Resources	CPRS - Dr. Gustafon
2:30-3:00		Reading list		Laura Zeigen	Webex
3:00-3:30		Fill out ILP	Neph EPIC Training	Webex	
3:30-4:00			Dr. Rope	Afternoon Rounds	Afternoon Rounds
4:00-4:30			Webex	UHS 4B	UHS 4B
4:30-5:00					

Fill out ILP

	July 12, 2021	July 13, 2021	July 14, 2021	July 15, 2021	July 16, 2021
Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-8:30	Shadow your Senior fellow	Shadow your Senior fellow	Journal Club Conference	Transplant Conference	Clinical Case Conference
8:30-9:00	Hanan/Peter	Hanan/Peter	Webex	Webex	Webex
9:00-9:30	Marilyn/Eric	Marilyn/Eric	Hanan/Peter		
9:30-10:00	Naveen/Justin	Naveen/Justin	Marilyn/Eric	Consults	Consults
10:00-10:30			Naveen/Justin		
10:30-11:00	Morning Rounds	Morning Rounds	Morning Rounds	Morning Rounds	Morning Rounds
11:00-11:30	VA100-335 & UH 4A	VA100-335 & UH 4A	VA100-335 & UH 4A	VA100-335 & UH 4A	VA100-335 & UH 4A
11:30-12:00					
12:00-12:30	Lunch Break	Basics of PD - Dr. Chopra	Lunch Break	Lunch Break	Lunch Break
12:30-1:00		Webex			
1:00-1:30	CRRT - Dr. Rope		AKI - Dr. Rope		
1:30-2:00	Webex	Dragon Training	Webex		
2:00-2:30	Calls - Dr. Weiss	Webex		Consults	Consults
2:30-3:00	Webex		Shadow senior fellows		
3:00-3:30					

Educational sub-curricula: Advanced topics in dialysis

- **Advanced dialysis topics**: This curriculum was designed by and is presented by our director of dialysis, Dr. Pavan Chopra. This lecture series is designed to give fellows a better understanding of some of the more nuanced (and less often taught) arenas within dialysis care, including:
 - Dialysis unit medical directorships
 - End of life care and dialysis
 - Ending the therapeutic relationship with patients
 - Health insurance and dialysis
 - Public policy and dialysis
 - Each topic will be covered by a 1-2 hour lecture once a month during the second year of fellowship (required for senior fellows, although junior fellows are welcome to attend).

Nephro-Talk

- Advanced communication skills training
- 4 online modules, followed by a face to face didactic to review skills



Lectures outside of the division

- We encourage our fellows to take part in external learning opportunities, including conferences.
- Conferences often attended include:
 - ASN
 - Home dialysis University
 - Satellite Home Dialysis Academy of Excellence
 - CRRT academy
 - Nephrology business university
- Fellows receive \$750/year in CME money
- Second-year fellows receive an additional \$1000 during their second year from the Bill Bennett Endowment Fund



Research and QI

- All fellows take part in one research and at least one QI project during training
- Senior fellows have 6 months of research time during their 2nd year to support this
 - Fellows can choose basic science or clinical projects
 - We have two division faculty members with expertise in QI



Research within the division

Bartters/
Gitelmans
and WNK
kinase

Innovations in
hypertension
management

Clinical
outcomes in
GN

Renal path and
clinical
correlations

And more...

Access
evaluation
and
management

Book chapters
and handbook
development

PTLD and
cell-free
DNA
testing

HTN and
sleep
physiology

Hyponatremia
and water
balance

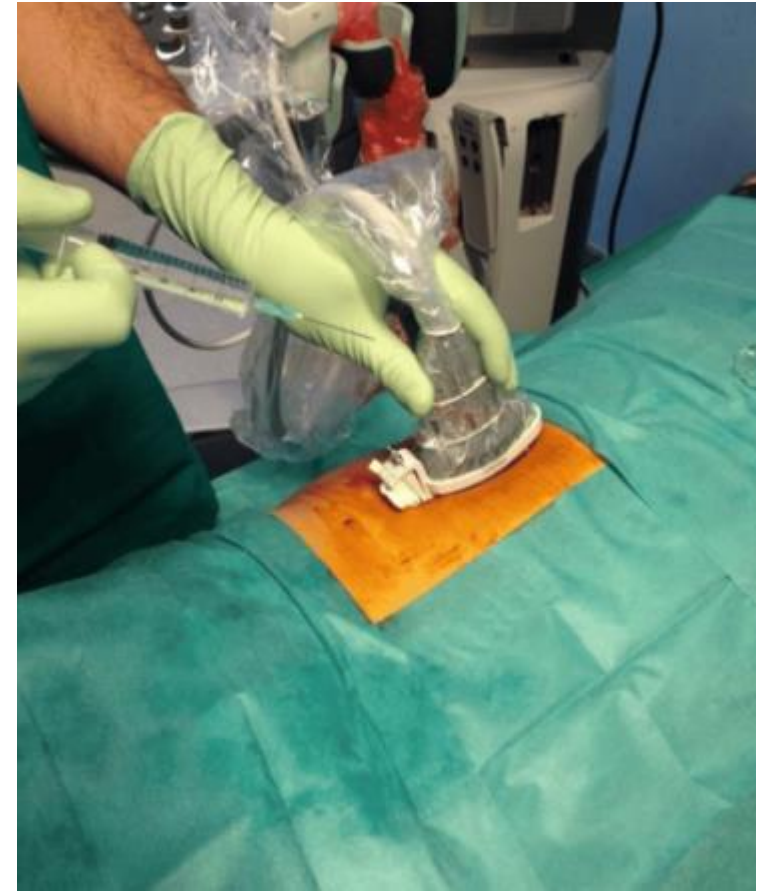
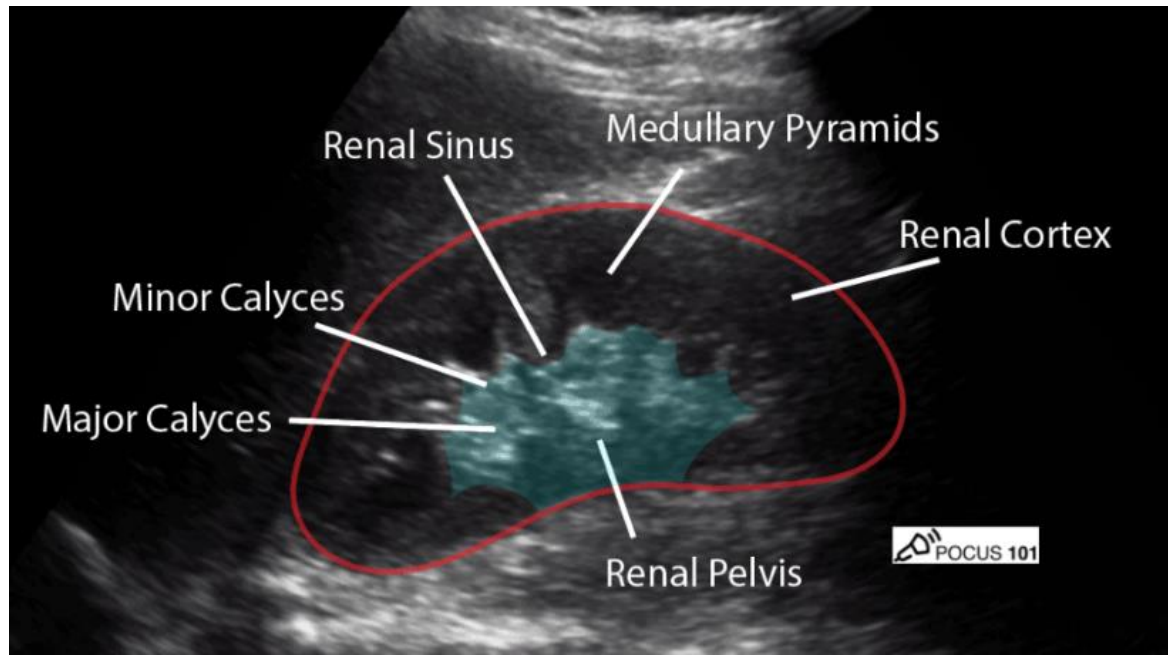
CRRT and
volume
balance

Systematic
reviews/guideline
development

Clin-path dz
correlates in
diabetic
nephropathy

Procedure and skill development

- Our program has opportunities for training in:
 - Dialysis line placement
 - Kidney biopsy (native and transplant)
 - POCUS
 - IR elective



Nephrology POCUS training

- 2 hands-on training half-days each year with OHSU POCUS faculty
- Access to 5 monitored ultrasound machines for ongoing practice at the point of care as well as nephrology POCUS machine at VA Medical Center
 - Results are reviewed by OHSU POCUS faculty and scored for accuracy
- 2-week POCUS rotation during second year to solidify/expand skills



Other things to know about us

Wellness (and the well-being of our trainees) is important to us

- We acknowledge and respect the importance of self-care and wellness skills as a critical component not only in training but in achieving long-term career happiness and well-being.
- OHSU has a wellness center, which is confidential, free, and available to all trainees.
- We take duty hours seriously – we have a jeopardy system in place to facilitate coverage post call as needed

Our trainees are part of the House Officers Union

- Some important features include:
 - housing stipend (\$2,205 for next year)
 - relocation money, up to \$1000
 - \$750 education money
 - equivalent of 3% of salary into 457b retirement plan
 - Medical license sponsorship

More information available at: <https://www.ohsuhou.org/>

A bit more about Portland...



**Portland has all 4
seasons – although
snow is really rare...**



Diverse music scene – from large to small venues



A variety of sports teams and athletic events...



**The Gorge –
45 minutes
from OHSU**



**Forest Park – 10
minutes from OHSU**

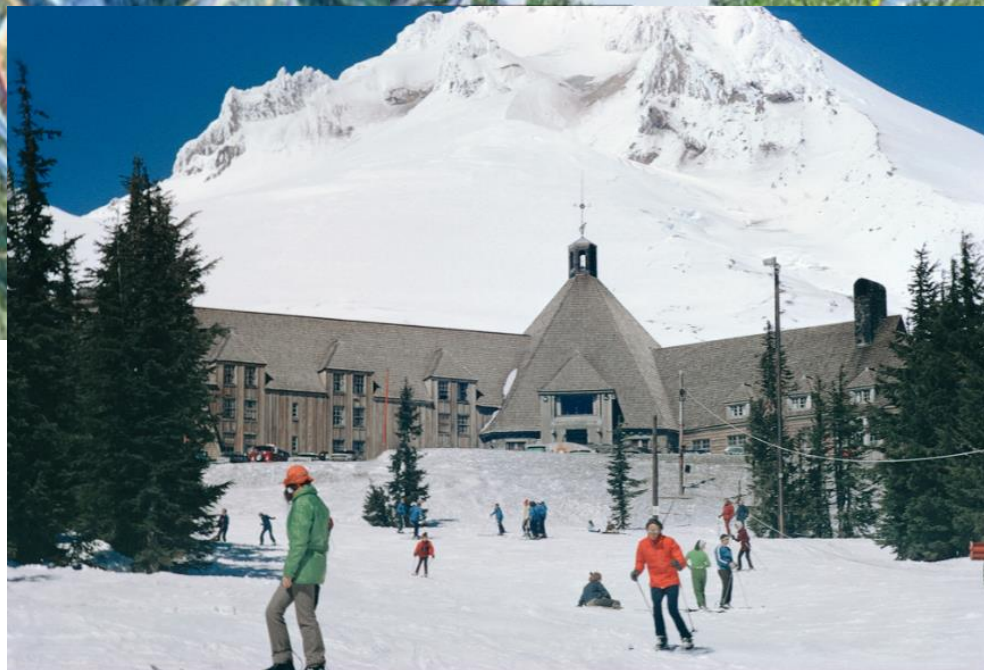


**The Coast –
1.5 hours
from OHSU**



**Mt. Hood –
1.5 hours
from OHSU**



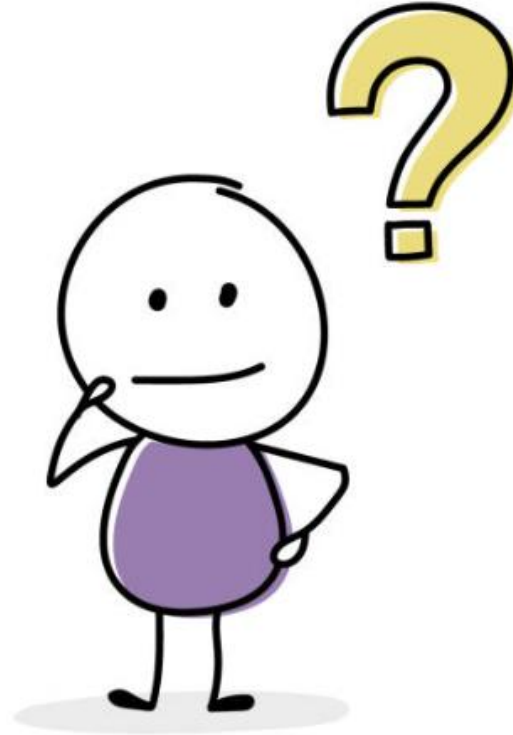


There are 3 ski resorts at Mt. Hood, all just a bit over an hour from Portland.

Portland is known for its many farmer's markets. Most neighborhoods have one, and we even have one on the OHSU campus in the summer (shown here)



Questions about OHSU nephrology training?
Please reach out!



We accept applications through ERAS during the internal medicine specialty training application cycle. Please check our website for more information.