

# **Division of endocrinology and metabolism**

## **(Seoul National University Hospital)**

### **1. Introduction**

In this division, most practice is provided as outpatient clinic. Every year, approximately 100,000 patients visit the clinic and about 3,500 patients are hospitalized for treatment. Diabetes mellitus and thyroid diseases comprise most of the patients. However, many cases of pituitary diseases, bone metabolism disorders, adrenal gland disorders and very rare endocrine diseases can be experienced in this division, because this is a historic tertiary referral hospital equipped with outstanding medical team. Case conferences with other related departments such as surgery, radiology and pathology promote the quality of medicine. In addition, each staff is performing clinical and/or basic research on endocrinology and metabolism. Every visiting fellow or student can join outpatient clinics, ward rounding, case conferences, and research projects.

### **2. Programs**

#### **1) Contents**

##### **① Journal Club :**

- Two up-to-date, high quality articles are reviewed every week
- Presentation and discussion
- Every Friday morning 7:30 – 8:00

##### **② Morning Conference :**

- Conferences of department of internal medicine
- Monday: Chief review
- Tuesday: Staff lecture / Morbidity and Mortality conference biweekly
- Wednesday: Transfer case / Quality assurance conference / Special lecture
- Thursday: Original article review
- Monday to Thursday, 8:00 – 8:30 am

##### **③ Case discussion :**

- Review and discussion on patients in ward
- Moderated by an endocrinology staff
- Tuesday 8:30 – 9:00 am, Friday 8:00 – 8:30 am

④ **Neuroendocrine meeting**

- Discussion on pituitary patients
- Moderated by an endocrinology staff
- Monday, Thursday 10:30 – 11:30 am

⑤ **Outpatient Clinic :**

- Diabetes Mellitus, Obesity, Thyroid Diseases, Thyroid Cancers, Osteoporosis, Pituitary and Adrenal Gland Diseases, Parathyroid Diseases
- Monday to Friday, 9:00 am – 12:00 MD and 01:30 pm – 5:00 pm
- Mostly outpatient clinic observation
- Various interesting and challenging cases in endocrinology and metabolism

⑥ **Ward Rounding :**

- Type 1 diabetes, Type 2 diabetes, Gestational diabetes, Hypoglycemia, Thyroid Disease, Thyroid Cancer, Osteoporosis, Cushing's syndrome, Primary Aldosteronism, Pheochromocytoma, Hyperparathyroidism, Hypoparathyroidism
- Consultations from other departments with endocrine diseases
- Inpatient-based endocrine examinations: Dexamethasone suppression test (overnight 1mg, low dose, and high dose), Inferior petrosal sinus sampling, Rapid ACTH stimulation test, Saline infusion test, Adrenal vein sampling, Water deprivation test
- Monday to Friday, 9:00 am – 12:00 MD and 01:30 pm – 5:00 pm
- Mostly rounding and inpatient interview

⑦ **Professor lecture**

- Lectures of endocrinology and metabolism by faculties of the division
- Schedule depends on the lecturer in charge.

⑧ **Endocrine laboratory unit :**

- Observation of endocrine examinations: Insulin tolerance test, Thyroid sonogram, Intima-media thickness measurement, Pulse wave velocity measurement, Quantitative sensory test, Glucagon stimulation test, Oral glucose tolerance test
- Wednesday 9am, Monthly

⑨ **Endocrine Case Conference :**

- Interesting endocrine cases
- Presentation and discussion
- Biweekly, Monday, 5:00 pm – 6:00 pm

⑩ **Thyroid conference**

- Joint conference with departments of surgery, otorhinolaryngology, radiology, nuclear medicine and pathology
- Biweekly, Monday, 5:00 pm – 6:00 pm

⑪ **Neuroendocrine Conference :**

- Joint conference with department of neurosurgery
- Biweekly, Tuesday, 5:30 pm – 6:00 pm

⑫ **Adrenal Gland Conference :**

- Joint conference with department of general surgery
- Bimonthly, Wednesday, 4:30 pm – 5:30 pm

⑬ **Research Meeting :**

- Presentation and discussion on on-going basic and clinical research at our division
- Wednesday, 6:00 pm – 7:00 pm

⑭ **Parathyroid Gland Conference :**

- Joint conference with department of general surgery
- Bimonthly, Thursday, 4:00 pm – 5:00 pm

⑮ **Medical Grand Round :**

- Update on advances in medical care and recent scientific achievement in department of internal medicine
- Thursday, 5:00 pm – 6:00 pm

## 2) Curriculum

① **Short-term visiting fellowship program**

1) Duration : 4 weeks program courses

2) Curriculum :

2-1) Outpatient clinic

- Diabetes and Obesity: Tue, Wed
- Thyroid: Mon, Thu
- Bone and general endocrinology: Fri

## 2-2) Procedure

- Endocrine laboratory unit: Endocrine function test, work-up procedures for DM complications, Thyroid sonography

## 2-3) Case discussion

- Tue and Fri, 8:30-9:30 am

## 2-4) Conferences

- Neuroendocrine meeting: Mon, Thu, 10:30am
- Endocrine case conference: Mon, 5pm (every other week)
- Thyroid conference: Mon, 5pm (every other week)
- Neuroendocrine conference: Tue, 5:30pm (every other week)
- Adrenal conference: Wed, 4:30pm (every other month)
- Research meeting: Wed, 6pm
- Parathyroid gland conference: Thu, 4pm (every other month)
- Journal club: Fri, 7:30am

\*\* Reports at the last week of training periods: Presentation of trainee about what he/she learned and feedback from the faculties

## ② Long-term visiting fellowship program

1) Duration : 12 months program courses

2) Curriculum : matching program with one professor each month

### 2-1) Outpatient clinic:

- Diabetes and Obesity: 4 month
- Thyroid: 4 month
- bone and general endocrinology: 3 month

### 2-2) Case discussion

- Tue and Fri, 8:30-9:30 am

2-3) Procedure: Observation and training several techniques for 1 month

- Endocrine laboratory unit: Endocrine function test, work-up procedures for DM complications, Thyroid sonography

2-4) Conferences

- Neuroendocrine meeting: Mon, Thu, 10:30am
- Endocrine case conference: Mon, 5pm (every other week)
- Thyroid conference: Mon, 5pm (every other week)
- Neuroendocrine conference: Tue, 5:30pm (every other week)
- Adrenal conference: Wed, 4:30pm (every other month)
- Research meeting: Wed, 6pm
- Parathyroid gland conference: Thu, 4pm (every other month)
- Journal club: Fri, 7:30am

2-5) Professor lecture

- Schedule depends on the lecturer in charge.

2-6) Optional schedule

- Visit to other hospitals of Seoul Nat'l Univ.
- Observation of endocrine surgery (ex. Robotic thyroidectomy)

\*\* Reports at the last week of each month: Presentation of trainee about what the trainee learn and feedback from the faculties

③ Routine time table

| Mon  | Tue  | Wed   | Thu  | Fri  |
|--|--|---|--|--|
|  |  |   |  | 7:30am<br>journal club                       |
| 8am<br>morning conference  |  |   |  | 8am<br>case discussion                       |
|  | 8:30am<br>case discussion                            |   |  |  |
| 10:30am<br>Neuroendocrine<br>meeting   | 9am<br>outpatient clinic<br>or ward rounding         | 9am<br>endocrine lab<br>unit  | 10:30am<br>Neuroendocrine<br>meeting   | 9am<br>outpatient clinic or<br>ward rounding |
| 12pm<br>lunch  |  |   |  |  |
| 1:30pm<br>outpatient clinic or ward rounding or professor lecture                            |  |   |  |  |
| 5pm<br>endocrine case<br>conference<br>(biweekly)<br><br>thyroid<br>conference<br>(biweekly) | 5:30pm<br>neuroendocrine<br>conference<br>(biweekly) | 4:30pm<br>adrenal gland<br>conference<br>(bimonthly)<br><br>6pm<br>research meeting | 4pm<br>Parathyroid<br>gland conference<br>(bimonthly)<br><br>5pm<br>medical grand<br>round |  |

### 3. Faculty lists

| Name           | Position                    | e-mail   |
|----------------|-----------------------------|--|
| Seong Yeon Kim | Professor                   | <a href="mailto:seongyk@plaza.snu.ac.kr">seongyk@plaza.snu.ac.kr</a> |
| Kyong Soo Park | Professor                   | <a href="mailto:kspark@snu.ac.kr">kspark@snu.ac.kr</a>               |
| Do Joon Park   | Professor,<br>Section Chief | <a href="mailto:djpark@snu.ac.kr">djpark@snu.ac.kr</a>               |
| Chan Soo Shin  | Professor                   | <a href="mailto:csshin@snu.ac.kr">csshin@snu.ac.kr</a>               |
| Young Joo Park | Professor                   | <a href="mailto:jyparkmd@snu.ac.kr">jyparkmd@snu.ac.kr</a>           |
| Young Min Cho  | Assistant Professor         | <a href="mailto:ymchomd@snu.ac.kr">ymchomd@snu.ac.kr</a>             |
| Hye Seung Jung | Assistant Professor         | <a href="mailto:junghs@snu.ac.kr">junghs@snu.ac.kr</a>               |
| Soo Heon Kwak  | Assistant Professor         | <a href="mailto:shkwak@snu.ac.kr">shkwak@snu.ac.kr</a>               |
| Sun Wook Cho   | Assistant Professor         | <a href="mailto:swchomd@snu.ac.kr">swchomd@snu.ac.kr</a>             |
| Jung Hee Kim   | Instructor                  | <a href="mailto:jhkxingfu@gmail.com">jhkxingfu@gmail.com</a>         |