<table>
<tr><td>講義ユニット名
Title of Lecture</td><td colspan="2">Nephrology</td><td>所属科目名
Title of Course</td><td>Clinical diagnosis and treatment I</td></tr>
<tr><td rowspan="2">講義ユニット責任者
Responsible Instructor</td><td>TAKAO MASAKI</td><td>所属
Affiliation</td><td colspan="2">Nephrology (内線　Ext. Number 6544)</td></tr>
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E-mail</td><td colspan="2"></td></tr>
<tr><td rowspan="2">講義ユニットコーディネーター
Lecture Coordinator</td><td>TOSHINORI UENO</td><td>所属
Affiliation</td><td colspan="2">Nephrology (内線　Ext. Number 2949)</td></tr>
<tr><td></td><td>メール
E-mail</td><td colspan="2"></td></tr>
<tr><td>授業方法
Lesson Style</td><td colspan="4">Lectures using Power Point slides.</td></tr>
<tr><td>概要
Overview</td><td colspan="4">The objective is to help students develop an extensive understanding of kidney disease, mainly including primary glomerular disorder, tubulointerstitial disorder, renovascular disease, acute renal failure, and chronic renal failure as well as secondary renal disorders associated with hypertension, diabetes, connective tissue disease, infections and drugs. This unit also covers the pathology, symptoms, approaches to diagnosis, and treatment of these kidney disorders.</td></tr>
<tr><td>講義ユニットの到達目標
Academic Goals</td><td colspan="4">Explain the amount, composition, and osmotic pressure of body fluids in children in comparison to adults.
Give an outline of the entire function of the kidney and the structures and functions of all parts of the nephron.
Explain the filtration mechanism of the glomeruli.
Explain the mechanism of reabsorption and secretion in all parts of the renal tubule and the mechanism of the concentration of urine.
Give an outline of the electrode regulation mechanism and the mechanisms of the regulation of the acid-base equilibrium.
Explain actions of hormones and vasoactive substances on the kidney.
Give an outline of the imaging diagnosis of the renal/urinary tract system.
Give an outline of methods for measuring the glomerular filtration rate.
Explain the indications and contraindications of kidney biopsy.
Give an outline of hypernatremia and hyponatremia.
Give an outline of hyperkalemia and hypokalemia.
Give an outline of hypercalcemia and hypocalcemia.
Give an outline of hyperphosphatemia and hypophosphatemia, and hyperchloremia and hypochloremia.
Explain the definition, pathophysiology and diagnosis of acidosis and alkalosis.</td></tr>
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	Give an outline of treatment of acidosis and alkalosis. Explain the causes and pathology of proteinuria. Explain important points in treating patients with proteinuria. List causes of hematuria. Explain important points in treating patients with hematuria. Explain the causes, symptoms, diagnosis, and treatment of acute renal failure. Give an outline of the causes, symptoms, diagnosis, and treatment of chronic renal failure. Explain treatment (dialysis, kidney transplantation) of chronic renal failure. Explain the causes, symptoms, diagnosis and treatment of acute glomerulonephritis. Explain the symptoms, diagnosis, and treatment of chronic glomerulonephritis (including IgA nephropathy). Explain the classification, symptoms, diagnosis, and treatment of nephrotic syndrome. Give an outline of rapidly progressive glomerulonephritis. Give an outline of renovascular hypertension. Explain the classification, pathophysiology, diagnosis, and treatment of renal tubular acidosis. Explain the concept, symptoms, and diagnosis of Fanconi's syndrome (including renal glycosuria). Explain the causes, symptoms, diagnosis, and treatment of acute and chronic pyelonephritis. Explain the causes, symptoms, diagnosis, and treatment of acute and chronic interstitial nephritis. Explain the symptoms, diagnosis, and treatment of diabetic nephropathy. Explain the symptoms, diagnosis, and treatment of lupus nephritis. Give an outline of amyloidosis. Explain the symptoms, diagnosis, and treatment of renal amyloidosis. Explain renal lesions in diseases related to connective tissue disease (vasculitic syndrome, Goodpasture's syndrome). Give an outline of purpura nephritis.
講義日程 Class Schedule	See the attached schedule.
出席の取り扱い Class Attendance Policy	Attendance is taken every lecture using the Student Attendance Management System. A student whose attendance is less than two-thirds of all the classes is not eligible for taking the final examination.

評価項目 Evaluation Item	Achievement level of goals (basic understanding and application of knowledge)
評価法 Evaluation Method	Examination (in the form of a national examination)
履修上のアドバイス Advice for Taking the Lecture	
推奨参考書 Recommended Reference Books	[Reference books recommended for purchase] *Naikagaku* (Asakura Shoten), *Shin-Rinsho-Naikagaku (Practice of Internal Medicine)* (Igakushoin) [Other references useful for this unit] Brenner & Rector's *The Kidney*, *Jinzo-Naika Resident Manual (Therapy in Nephrology)* (Shindan To Chiryo Sha)