This survey is designed to detect practice patterns; it does not seek right or wrong answers. Please answer all questions according to what you do in your everyday clinical practice.

All answers are recorded in an anonymous fashion.

Please click on "next" to start the survey.
* Subspecialty (choose field of major activity)
  - Cardiology
  - Clinical Pharmacology
  - Endocrinology/Diabetes/Metabolism
  - Gastroenterology
  - General Internal Medicine
  - Gerontology & Geriatric Medicine
  - Hematology/Oncology
  - Infectious Diseases
  - Laboratory Medicine
  - Nephrology & Hypertension
  - Pulmonary & Critical Care
  - Rheumatology & Immunology
  - Other (please specify)

4. Specialty

Progress: ■□□□□□□□□□□□

* Primary Specialty
  - Anesthesiology
  - Dermatology
  - Family Medicine
  - Internal Medicine & Subspecialties
  - Neurological Surgery
  - Neurology
  - Obstetrics & Gynecology
  - Ophthalmology
  - Orthopaedics and Rehabilitation
  - Otolaryngology
  - Pathology
  - Pediatrics
  - Physical Therapy
  - Psychiatry
  - Radiation Oncology
  - Radiology
  - Rehabilitation Medicine
  - Surgery
  - Other (please specify)
5. Practice type

Progress: ■■■■■■■■■■■■

* Practice type
  - Not seeing patients
  - Academic
  - Non-academic solo practice
  - Non-academic single-specialty group practice
  - Non-academic multi-specialty group practice

6. Survey

Progress: ■■■■■■■■■■■■

* How many patients do you see per week?
  Use an average if you are not seeing patients every week.
  - less than 15
  - 15-25
  - 26-50
  - 51-100
  - 101-150
  - more than 150

* How many patients in your practice have any degree of kidney failure?
  Include patients with normal creatinine clearance and evidence of kidney damage such as microalbuminuria, proteinuria, or hematuria.
  - none
  - 1-10%
  - 11-30%
  - 31-50%
7. Survey 2
* In your opinion, what is the best measure of kidney function?
Choose only one answer.
- 24-hour urine collection for creatinine clearance
- Renogram with lasix
- Renal ultrasound
- 24-hour urine collection for urea clearance
- BUN
- Estimated glomerular filtration rate (GFR) using a mathematical formula
- Serum creatinine

8. Survey 3
* In your opinion, how do the following factors influence the risk for developing chronic kidney disease?

<table>
<thead>
<tr>
<th>Factor</th>
<th>No influence</th>
<th>Minimally increased</th>
<th>Highly increased</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cigarette smoking</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recurrent urinary tract infections</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Age above 65 years</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kidney stones</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower urinary tract obstruction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recovery from acute renal failure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic heart failure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Body mass index between 18 and 22</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>African American race</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic ethnicity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Family history of kidney failure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoimmune diseases</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9. Survey4

Progress: ■■■■■□□□□□□□

* What is your blood pressure goal for a patient with a creatinine clearance of 40 ml/min?
  - less than 140/90
  - less than 130/90
  - less than 130/80
  - less than 125/75
  - less than 120/70
  - I don't know

10. Survey4b

Progress: ■■■■□□□□□□□□

* In a patient with mild to moderate chronic kidney disease, which of the following do you consider first-line antihypertensive agents to slow the progression of kidney disease?
  - Check all that apply.
    - Alpha blockers
    - Non-dihydropyridine calcium channel blockers
    - Angiotensin receptor blockers
    - Angiotensin converting enzyme inhibitors
    - Thiazide diuretics
    - Loop diuretics
    - Dihydropyridine calcium channel blockers
    - Beta blockers
    - Other (please specify)

11. Survey6

Progress: ■■■■□□□□□□□□
You see a 55-year old African American woman with type 2 diabetes and hypertension. Her medications are insulin and a thiazide diuretic. Her blood pressure is well controlled, and she has no complaints. Her serum creatinine has increased to 2 mg/dl over the past two years.

Which of the following laboratory tests would you order in a patient like this?

- Lipid panel
- Random (spot) urine sample for microalbumin
- Random (spot) urine sample for creatinine
- CBC
- Liver function panel
- Serum calcium
- Urine analysis
- Serum phosphate
- Intact PTH
- Glycohemoglobin (HbA1c)
- Serum albumin
- Random (spot) urine sample for electrolytes
- 24-hour urine collection for protein
- 24-hour urine collection for creatinine

12. Survey 5

Progress: ■■■■■□□□□□□

Which of the following conditions may be a consequence of chronic kidney disease?

Check all that apply.

- Anemia
- Metabolic acidosis
- Respiratory acidosis
- Secondary hyperparathyroidism
- Worsening hypertension
- Increased serum potassium
- Dyslipidemia
- Malnutrition
- Volume overload
- Hirsutism
- Obesity
At what level of creatinine clearance (or glomerular filtration rate) do you currently screen your patient for each of the following conditions?

<table>
<thead>
<tr>
<th>Condition</th>
<th>Below 90 ml/min</th>
<th>Below 60 ml/min</th>
<th>Below 30 ml/min</th>
<th>Below 15 ml/min</th>
<th>I do not screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metabolic acidosis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anemia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malnutrition</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary hyperparathyroidism</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

At what hemoglobin concentration would you intervene (start treatment or request a consult) in a patient with a creatinine clearance of 40 ml/min and anemia of chronic disease?

- Hgb below 8 g/dl
- Hgb below 9 g/dl
- Hgb below 10 g/dl
- Hgb below 11 g/dl
- Hgb below 12 g/dl
- Hgb below 13 g/dl

At what intact PTH concentration would you intervene (start treatment or request a consult) in a patient with a creatinine clearance of 40 ml/min and secondary hyperparathyroidism?

- Intact PTH above 30 pg/ml
- Intact PTH above 50 pg/ml
- Intact PTH above 70 pg/ml
- Intact PTH above 110 pg/ml
- Intact PTH above 150 pg/ml
Your patient is a 40-year old woman with hypertension. She has the following laboratory data:

- Creatinine clearance: 40 ml/min (normal: 90-140)
- Hgb: 8.0 g/dl (normal: 12-16)
- Iron: 40 mcg/dl (normal: 65-165)
- TIBC: 400 mcg/dl (normal: 300-450)
- Ferritin: 40 ng/ml (normal: 20-300)

* What medications, if any, would you use to treat this patient's anemia (check all that apply)?

- Oral iron
- Intravenous iron
- Erythropoietin or darbapoietin
- No medications
- Other (please specify)

* What consultations, if any, would you request?

- Nephrology consult
- Hematology consult
- No consultation
- Other (please specify)
**Data:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Normal Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creatinine clearance</td>
<td>40 ml/min</td>
<td>(90-140)</td>
</tr>
<tr>
<td>Calcium</td>
<td>8.5 mg/dl</td>
<td>(8.5-10.5)</td>
</tr>
<tr>
<td>Phosphate</td>
<td>2.9 mg/dl</td>
<td>(2.0-4.3)</td>
</tr>
<tr>
<td>PTH (intact)</td>
<td>120 pg/ml</td>
<td>(10-55)</td>
</tr>
<tr>
<td>25-OH Vitamin D</td>
<td>40 ng/ml</td>
<td>(20-56)</td>
</tr>
</tbody>
</table>

*What medications, if any, would you use to treat this patient's elevated PTH?*

- Calcium supplementation
- Phosphate binder
- 1,25-Vitamin D (calcitriol, paricalcitol, or doxercalciferol)
- 25-Vitamin D (ergocalciferol)
- No Medication
- Other (please specify)

*What consultations, if any, would you request?*

- Nephrology consultation
- Endocrinology consultation
- No consultation
- Other (please specify)

18. Survey

Progress: ■■■■■■■□□□

* In your opinion, if a patient with a creatinine clearance of 40 ml/min develops secondary hyperparathyroidism, what combination of serum calcium, serum phosphate, and PTH concentrations is most likely?*

- Low calcium, normal phosphate, high PTH
- High calcium, low phosphate, high PTH
- Low calcium, high phosphate, high PTH
- Low calcium, high phosphate, normal PTH
- Normal calcium, normal phosphate, high PTH
- Other (please specify)
20. Survey9

* At what level of kidney function would you refer a patient with diabetic nephropathy to a nephrologist?

- As soon as the serum creatinine is abnormal
- GFR or CrCl less than 90 ml/min
- GFR or CrCl less than 60 ml/min
- GFR or CrCl less than 30 ml/min
- GFR or CrCl less than 15 ml/min
- As soon as microalbuminuria is present, regardless of creatinine clearance

21. Survey10

* Your patient has chronic kidney disease and wants to start hemodialysis when the kidneys fail. In your opinion, at what level of glomerular filtration rate (GFR) or creatinine clearance (CrCl) should a vascular access (fistula) be placed?

- GFR or CrCl less than 50 ml/min
- GFR or CrCl less than 25 ml/min
- GFR or CrCl less than 15 ml/min
- After patient started dialysis
- I am not sure

* Your patient is a 37-year old Non-Hispanic Caucasian man with hypertension, microalbuminuria (40 mg/day), and a blood pressure of 145/95 mmHg. He is taking a thiazide diuretic. Would you add an angiotensin converting enzyme inhibitor if the patient's serum creatinine concentrations fell within one of the following ranges?

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.6-1.4 mg/dl</td>
<td></td>
</tr>
<tr>
<td>1.5-2.0 mg/dl</td>
<td></td>
</tr>
<tr>
<td>2.1-2.5 mg/dl</td>
<td></td>
</tr>
<tr>
<td>2.6-3.0 mg/dl</td>
<td></td>
</tr>
</tbody>
</table>
Your patient is a 37-year old African American man with hypertension, microalbuminuria (40 mg/day), and a blood pressure of 145/95 mmHg. He is taking a thiazide diuretic. Would you add an angiotensin converting enzyme inhibitor if the patient's serum creatinine concentrations fell within one of the following ranges?

<table>
<thead>
<tr>
<th>Range</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.6-1.4 mg/dl</td>
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<tr>
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</tr>
<tr>
<td>2.6-3.0 mg/dl</td>
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<tr>
<td>3.1-4.0 mg/dl</td>
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<td></td>
</tr>
<tr>
<td>above 4.0 mg/dl</td>
<td></td>
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</tr>
</tbody>
</table>

23. All of your answers are recorded anonymously.
24. Thank you for participating in this survey. Please give us your feedback.

Progress: ■■■■■■■■■■■■

Please rate this survey

<table>
<thead>
<tr>
<th>Questions were clear</th>
<th>Strongly disagree</th>
<th>Somewhat disagree</th>
<th>Neutral</th>
<th>Somewhat agree</th>
<th>Strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Questions were relevant</td>
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<tr>
<td>Length of survey was acceptable</td>
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</tr>
</tbody>
</table>

Comments:

Thank you for participating in this survey.

For questions regarding this survey please contact:

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