**IDEXX SDMA® Test Algorithm**

SDMA can increase with both active or acute kidney injury, as well as chronic kidney disease.

Take action when SDMA* results are increased. Follow this algorithm to determine if kidney disease is probable and what steps you should take to investigate, manage, and monitor the disease.

<table>
<thead>
<tr>
<th>When SDMA result is ≥20 µg/dL</th>
<th>When SDMA result is 15–19 µg/dL†</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform a complete urinalysis</td>
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</tr>
</tbody>
</table>

**Other evidence of kidney disease?**

- Inappropriate urine specific gravity (USG) of <1.030 in a dog or <1.035 in a cat
- Active urinary sediment, particularly casts, white blood cells, or bacteria
- Proteinuria or urine protein:creatinine (UPC) ratio >0.5 in a dog or >0.4 in a cat
- History of weight loss, decreased appetite, polydipsia, polyuria
- Physical examination findings, such as palpable kidney abnormalities
- Creatinine, BUN, and/or phosphorus above reference interval
- Creatinine increasing within reference interval
- Anemia
- Other diagnostic findings (abnormal kidney imaging, unexplained hypertension)

**Kidney disease probable—act immediately**

Follow IMM protocol

**When SDMA result is 15–19 µg/dL†**

**NO**

Recheck in 2–4 weeks

**YES**

If SDMA remains increased

**Investigate**

To identify an underlying cause, perform:

- Urine culture and MIC susceptibility
- Infectious disease testing (Lyme disease, leptospirosis, ehrlichiosis, FeLV, FIV, FIP, toxoplasmosis)
- Diagnostic imaging (stones, pylonephritis)
- History/possibility of toxin exposure?
- History/exposure to potentially nephrotoxic drugs?

For confounding conditions, assess:

- Hydration status
- Blood pressure
- Urine protein:creatinine ratio
- Thyroid status

**Manage**

Treat appropriately

- Underlying disease if identified
- Clinical dehydration
- Persistent hypertension
- Persistent proteinuria
- Hyperthyroidism

Provide kidney support immediately

- Feed kidney-supportive diet
- Provide fresh, clean water sources
- Discontinue all potentially nephrotoxic drugs if possible

Adjust anesthesia protocols

- Provide intravenous fluids, before, during, and upon recovery
- Provide oxygen, before, during, and upon recovery
- Maintain and monitor blood pressure and body temperature
- If needed, use narcotic for pain management

Underlying or confounding disease identified

Monitor as indicated

Underlying or confounding disease not identified

Recheck in 2 weeks

**Monitor**

SDMA returns to normal

- Kidney function has returned to normal
- Monitor confounding conditions and other underlying disease if present

SDMA remains increased but stable

- If SDMA and creatinine are stable, chronic kidney disease (CKD) is diagnosed
- Initiate appropriate treatment based on International Renal Interest Society (IRIS) CKD staging

For questions regarding IDEXX SDMA Test results, please contact our Customer Support Team at 1-888-433-9987.

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*Symmetric dimethylarginine.
†SDMA reference interval for cats, kittens, and adult dogs is 0–14 µg/dL. In puppies, the SDMA reference interval is 0–16 µg/dL. Read the full report at IDEXX.com/sdmapeds.
‡To see the proof and a complete list of references, visit idexx.com/sdma.

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