

## Excessive Urination in Dogs

### **The causes and treatments of a dog's excessive urinating.**

#### CAUSES OF EXCESSIVE URINATION (polyuria)

Endocrine disorders: Hyperadrenocorticism (Cushing's disease), hyperthyroidism, diabetes mellitus, diabetes insipidus, pyometra, or secondary hyperparathyroidism.

Non-infectious/Acquired diseases: Kidney disease or liver disease.

Infectious diseases: Leptospirosis, cystitis (inflammation/infection of the bladder, usually causing frequent urination), or pyelonephritis (kidney infection, usually bacterial).

Toxicity: Ethylene glycol (antifreeze), chocolate, cholecalciferol (rodenticide), organophosphates (frequent urination), calcipotriene (human psoriasis medication), vitamin D, aminoglycoside antibiotics, or amphotericin B (antibiotic).

Congenital/Inherited disorders: Primary parathyroid hyperplasia (in German Shepherd Dogs), portosystemic shunt, renal dysplasia/hypoplasia (abnormal kidney development; in Miniature Schnauzers, Alaskan Malamutes, Cocker Spaniels, Doberman Pinschers, Lhasa Apsos, and many other breeds), chronic hepatitis (Doberman Pinschers), or hepatic amyloidosis (Shar-Pei).

Drug reactions: Glucocorticoids or phenobarbital.

Tumors: In pituitary, liver, adrenal glands, anal sacs (when accompanied by paraneoplastic syndrome), or malignant lymphoma.

Miscellaneous disorders: Paraneoplastic syndrome (if accompanied by hypercalcemia) or polycythemia (abnormal increase in red blood cells, either primary or secondary to another disease).

What to do: Increased urination may or may not be an emergency, depending on the cause, duration, and presence of other symptoms. Contact your veterinarian or emergency clinic immediately for specific advice about your dog's situation.

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