

## VETERINARY TECHNICAL DATASHEET

Polycystic Kidney Disease, (PKD); mutation originally found in Bull Terrier



Mutation Found In :Bull Terrier (Standard), Bull Terrier (Miniature)

### Disorder Type

- Urinary

### Disease Severity

- Moderate/severe

### Background

Polycystic kidney disease (PKD) is an inherited kidney disease affecting English Bull Terriers. Affected dogs develop bilateral kidney cysts which generally leads to kidney failure.

### Key Signs

- Bilateral renal cysts
- Renal failure

### Clinical Description

In PKD, an affected dog develops several bilateral kidney cysts of different sizes, which cause structural kidney damage. The disease leads to chronic renal failure in adulthood. Clinical signs of chronic renal failure include excessive drinking and frequent urination.

### Mode of Inheritance

- autosomal dominant

### Gene Name

- PKD1

### Next Steps

Medical and dietary treatment is directed at managing the renal disease.

### References

Gharahkhani P, O'Leary CA, Kyaw-Tanner M, Sturm RA, Duffy DL. A non-synonymous mutation in the canine Pkd1 gene is associated with autosomal dominant polycystic kidney disease in Bull Terriers. PLoS ONE6:e22455, 2011.