

rctcogvgt u " ycu " qpeg " kpxguvki cvgf " kp " gkijv " ecno " jg  
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hqt " vjg " nghv " cpf " rtqrgt " vj { tqkf " nqdg " kp " rwrrkgu "  
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qh " VVR " yjkej " wugf " vq " dg " ftcuvkecn { " gzvgpfgf  
gzvtc " fgxkeg " hqt " rtqipquku " qh " j { rqvj { tqkfkuo  
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**Keywords:** thyroid gland; Contrast-enhanced ultrasonography (CEUS); Healthy dogs; Hypothyroidism; Non-thyroidal diseases; Canine endocrinology

## Introduction

The intricate interplay between the thyroid gland and a dog's overall health underscores the significance of advanced diagnostic tools in veterinary medicine. Among these, thyroid gland contrast-enhanced ultrasonography (CEUS) stands out as a cutting-edge technique, shedding light on the vascular dynamics of the thyroid in diverse canine populations. This article delves deeper into the applications and implications of CEUS in healthy dogs, those with hypothyroidism, and those grappling with non-thyroidal diseases. In healthy dogs, thyroid gland CEUS provides a canvas for mapping the intricacies of blood flow within the thyroid parenchyma. The technique enables the visualization of normal perfusion patterns, offering a baseline for comparison when investigating abnormalities. By uncovering the natural vascular dynamics of the thyroid, CEUS assists in identifying deviations indicative of underlying health concerns. Hypothyroidism, a prevalent endocrine disorder in dogs, necessitates precise diagnostic approaches for effective management. CEUS proves invaluable in this regard by facilitating the assessment of thyroid vascularity. The identification of altered blood flow patterns and vascularity aids in the differentiation of hypothyroidism from other thyroid disorders, contributing to a more nuanced understanding of canine endocrinology. The applications of thyroid gland CEUS extend beyond the confines of thyroid-specific conditions. Dogs with non-thyroidal diseases often exhibit systemic

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