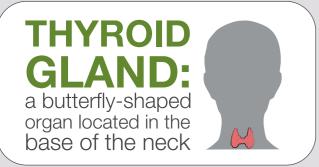
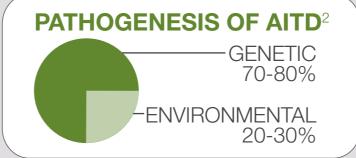
# Autoimmune thyroid disease (AITD)



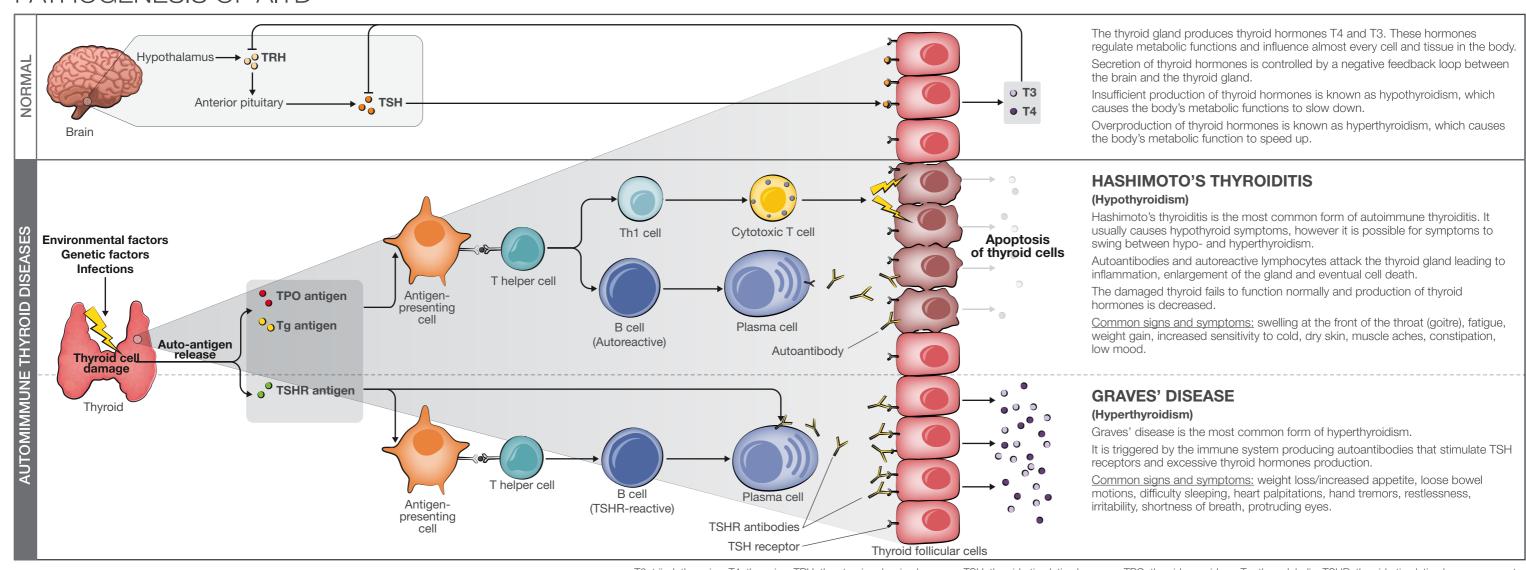








## PATHOGENESIS OF AITD1-6



T3: triiodothyronine, T4: thyroxine, TRH: thyrotropin-releasing hormone; TSH: thyroid-stimulating hormone; TPO: thyroid peroxidase; Tg: thyroglobulin; TSHR: thyroid-stimulating hormone receptor

## NUTRITIONAL SUPPORT FOR AITD

#### SELENIUM<sup>7,8</sup>

- Often deficient in patients with AITD
- Antioxidant
- Anti-inflammatory
- Immunomodulatory
- Decreases thyroid autoantibodies
- Prevents apoptosis of thyroid follicular cells

#### VITAMIN D<sup>9</sup>

- Low levels associated with Hashimoto's thyroiditis
- Low levels associated with high TSH

### MYO-INOSITOL<sup>10</sup>

- Improves the function of selenium in lowering thyroid autoantibodies
- Reduces TSH levels

#### ALPHA-LIPOIC ACID<sup>11</sup>

- Antioxidant
- Anti-inflammatory
- Improves conversion of T4 to T3 in peripheral

#### MAGNESIUM + SELENIUM + COENZYME Q1012

- Coenzyme Q10 is severely depleted in hypothyroidism
- Long-term supplementation of this combination helps:
- Correction of musculoskeletal signs and symptoms
- Normalise thyroid morphology
- Decrease thyroid autoantibodies