IODINE DEFICIENCY — GREAT CHALLENGE FOR UKRAINE

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Deficit of iodine today is the global problem of all humanity that can not be ignored, as an effect of deficit of iodine is extremely insalubrious and, as a result, all world community man.

The disease of thyroid gland by its frequency in the population takes the first place among endocrine pathology.

For our country this disease is the object of interest since as a result of insufficient iodine content in soils in regions situated far from sea, mountainous regions with frequent floods, big territories of Ukraine appeared to be endemic because of risk of development of so called iodine-deficient conditions. Iodine is necessary for the synthesis of thyroid gland hormones that regulates the functioning of the whole organism.

Hormones produced by thyroid gland - thyroxine (T4) and triiodothyronine (T3) influence the reproduction, growth, tissue differentiation and metabolism.

The signs of iodine insufficiency can be drastic reduction of physical and mental working capacity, somnolence, inertness, decline in memory and other symptoms. The disorder of mental and physical development is observed in children.

The iodine insufficiency can be treated by means of food of plant and animal origin that carry high concentrations of iodine. The provision of agricultural animals by this element by means of feed additives, medicinal products and other products that contain iodine is one of the ways to treat the iodine insufficiency in humans and animals.

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