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Assays - Siemens
Healthineers USA
Background: Thyroid-
stimulating hormone (TSH) is

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used to detect primary hypo- and hyperthyroidism. Current guidelines for TSH assays recommend a functional sensitivity of ≥ 0.02 mIU/L. The protocol for determining the functional sensitivity of TSH assays specifies analyses of serum samples with two reagent lots over a 6- to 8-week period.

Thyroid-stimulating hormone and free thyroxine on the

...

Serum thyroid-stimulating hormone (TSH) measurement is the most common test used for the diagnosis and monitoring of thyroid diseases. It requires highly sensitive TSH assays with

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third-generation functional
sensitivity (National
Academy of Clinical

Pediatric reference
intervals for thyroid
hormone levels ...

For in vitro diagnostic use
in the quantitative
determination of thyroid-
stimulating hormone (TSH,
thyrotropin) in serum,
heparinized plasma, and EDTA
plasma using the ADVIA
Centaur CP system

Measurements of thyroid
stimulating hormone produced
by the anterior pituitary
are used in the diagnosis of
thyroid or pituitary
disorders

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Thyroid-stimulating hormone
and free thyroxine on the

...

Thyroid disorders are an important health problem and have an estimated prevalence of 13% in France [1]. Serum thyroid-stimulating hormone (TSH) measurement is the most common test used for the diagnosis and monitoring of thyroid diseases. It requires highly sensitive TSH assays with third-generation functional sensitivity (National

Performance Characteristics
of 6 Third-Generation Assays

...

Thyroxine (T4) is secreted
by the thyroid gland as the

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major thyroid hormone secreted and nearly all bound to specific plasma proteins. Only about 0.02% of T4 in the circulation is non-protein bound. The free thyroxine (FT4) is biologically active and therefore, mostly monitored in patients with thyroid disorders.

Evaluation of the ADVIA
Centaur TSH-3 assay |
Request PDF

Hypothalamic-pituitary-thyroid axis is not intact due to disease or medication
There is thyroid hormone resistance
There was recent therapy for hyper- or hypothyroidism
For these

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cases, measure free T4 and possibly also free T3 or total T4

Impact of light exposure on thyroid-stimulating hormone

...

Free T3 testing may be ordered along with thyroid antibodies to help diagnose Graves' disease, an autoimmune disorder that is the most common cause of hyperthyroidism. Free T4 Thyroxine (T4) is a hormone synthesized and secreted by the thyroid gland and plays an important role in regulating metabolism.

Evaluation of the ADVIA
Centaur™ TSH-3 Assay

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Background Thyroid-stimulating hormone (TSH) is used as the first-line test of thyroid function. Siemens Healthcare Diagnostics recommend that Siemens Centaur reagents must be protected from light in the assay information and on reagent packaging.

510(k) SUBSTANTIAL
EQUIVALENCE DETERMINATION
ADVIA Centaur® CP/XP
IMMULITE® ... Thyroid-stimulating hormone (TSH) stimulates the thyroid gland to synthesize and secrete thyroid hormone. TSH serum measurements are used to detect primary hypo- and hyperthyroidism. The

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capability of a TSH assay to distinguish between normal and subnormal concentrations is essential for thyroid testing ...

Thyroid Assays - Siemens
Healthineers Global

A recent report in this journal by Rawlins and Roberts (1) compared 6 commercial third-generation assays for thyroid-stimulating hormone (TSH). The authors reported a functional sensitivity of 0.039 mIU/L for the ADVIA Centaur® TSH-3, in contrast to the manufacturer's claim of 0.019 mIU/L (2).

DEPARTMENT OF HEALTH & HUMAN

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An analytical evaluation of the thyroid stimulating hormone (TSH-3) assay on the Bayer ADVIA Centaur immunoassay system was performed. General analytical requirements (linearity, resistance to...

Thyroid-stimulating hormone and free thyroxine on the ...

The purpose of this study was to validate the Bayer ADVIA Centaur (Bayer Healthcare, Tarrytown, NY) third-generation thyroid-stimulating hormone (TSH), total thyroxine (T₄), and free thyroxine (FT₄) assays for use with AF and

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establish reference intervals for these thyroid hormones in AF.

Establishment of reference intervals for thyroid ... thyroid-stimulating hormone (TSH, thyrotropin) in serum using the ADVIA Centaur, ADVIA Centaur XP and ADVIA Centaur XPT systems. Measurements of thyroid stimulating hormone produced by the anterior pituitary are used in the diagnosis of thyroid or pituitary disorders.

Siemens 6491080 - McKesson Medical-Surgical
A thyroid stimulating hormone test system is a

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device intended to measure thyroid stimulating hormone, also known as thyrotrophin and thyrotrophic hormone, in serum and plasma.

Measurements of thyroid stimulating hormone produced by the anterior pituitary are used in the diagnosis of thyroid or pituitary disorders. 3.

Advia Centaur Thyroid Stimulating Hormone Serum thyroid-stimulating hormone (TSH) measurement is the most common test used for the diagnosis and monitoring of thyroid diseases. It requires highly sensitive TSH assays with

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third-generation functional sensitivity (National Academy of Clinical Biochemistry, NACB, guidelines [2]).

Pathology Outlines - Thyroid stimulating hormone (TSH) tion; ADVIA® Centaur™.

Abbreviations:CV, coefficient of variation; TSH, thyroid stimulating hormone (thyrotropin).

Introduction Thyrotropin (TSH) is now generally accepted as the first line parameter in the screening for thyroid dis-eases (1).

Since the prevalence of thyroid diseases is high in the general population, especially in iodine de-

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Comparison of four
immunoassay analyzers for
relationship ...

Age- and sex-specific
reference intervals are an
important prerequisite for
interpreting thyroid hormone
measurements in children.
However, only few studies
have reported age- and sex-
specific pediatric reference
values for TSHbasal (TSH),
free T3 (fT3), and free T4
(fT4) so far. Reference
intervals are known to be
method- and population-
dependent.

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[4879f94eb65eec7e1f22fb3b42d6](https://doi.org/10.4236/1687-1415)

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