Resource Summary Report

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SPINA Thyr

RRID:SCR_014352
Type: Tool

Proper Citation

SPINA Thyr (RRID:SCR_014352)

Resource Information

URL: http://spina.sourceforge.net

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Description: Software tool to deliver estimated structure parameters of endocrine feedback control systems in vivo from serum or plasma hormone levels. Used for evaluation of thyroid function. Allows for calculating thyroid maximum secretory capacity (GT or SPINA-GT) and sum activity of peripheral 5'-deiodinases (GD or SPINA-GD) from levels of TSH, (F)T4 and (F)T3 that have been determined once only (SPINA Thyr). Binaries are available for Mac OS, Mac OS X, Palm OS, Garnet OS and Windows. For other operating systems, including Linux, Solaris and BSD, SPINA Thyr is available as sourcecode. Building from source requires THINK Pascal (for Mac OS Classic), winsoft PocketStudio (for Palm OS / Garnet OS) or Lazarus/Free Pascal (for Mac OS X, Windows, Linux, BSD and Solaris). Special version of calculation engine is available for modern S implementation, e.g. R.

Abbreviations: SPINA, SPINA Thyr

Synonyms: Structure Parameter Inference Approach, Structure Parameter Inference Approach Thyroid

Resource Type: software resource, software application, standalone software, data analytics software

Defining Citation: PMID:23365787

Keywords: Thyroid function, secretory capacity evaluation, hypothyroidism, thyrotoxicosis, clinical calculator, SPINA-GT, SPINA-GD, total deiodinase activity

Funding:

Availability: Free, Available for download, Freely available

Resource Name: SPINA Thyr

Resource ID: SCR_014352

Alternate URLs: https://doi.org/10.5281/zenodo.3596049

License: BSD License

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Record Last Update: 20250517T060130+0000

Ratings and Alerts

No rating or validation information has been found for SPINA Thyr.

No alerts have been found for SPINA Thyr.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Gürdal A, et al. (2017) Evaluation of Tp-e interval, Tp-e/QT ratio and Tp-e/QTc ratio in patients with subclinical hypothyroidism. Therapeutic advances in endocrinology and metabolism, 8(3), 25.

Hoermann R, et al. (2016) Relational Stability of Thyroid Hormones in Euthyroid Subjects and Patients with Autoimmune Thyroid Disease. European thyroid journal, 5(3), 171.

Dietrich JW, et al. (2015) Nonthyroidal Illness Syndrome in Cardiac Illness Involves Elevated Concentrations of 3,5-Diiodothyronine and Correlates with Atrial Remodeling. European thyroid journal, 4(2), 129.

Midgley JE, et al. (2013) Physiological states and functional relation between thyrotropin and free thyroxine in thyroid health and disease: in vivo and in silico data suggest a hierarchical model. Journal of clinical pathology, 66(4), 335.

Hoermann R, et al. (2012) TSH Measurement and Its Implications for Personalised Clinical

Decision-Making. Journal of thyroid research, 2012, 438037.

Dietrich JW, et al. (2008) The AQUA-FONTIS study: protocol of a multidisciplinary, cross-sectional and prospective longitudinal study for developing standardized diagnostics and classification of non-thyroidal illness syndrome. BMC endocrine disorders, 8, 13.

Rosolowska-Huszcz D, et al. (2005) Influence of low protein diet on nonthyroidal illness syndrome in chronic renal failure. Endocrine, 27(3), 283.