

1. Record Nr.	UNISALENT0991003313619707536
Autore	Kazantzakes, Nikos
Titolo	Lettre au greco : souvenirs de ma vie / Nikos Kazantzakes ; traduit du grec par Michel Saunier
Pubbl/distr/stampa	Paris : Plon, 1966
Descrizione fisica	536 p. ; 20 cm.
Altri autori (Persone)	Saunier, Michel
Disciplina	889.334
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910163021603321
Titolo	Current indications for growth hormone therapy / / volume editor, Peter C. Hindmarsh
Pubbl/distr/stampa	Basel ; ; New York, : Karger, 2010
ISBN	1-283-15352-1 9786613153524 3-8055-9195-0
Edizione	[2nd, rev. ed.]
Descrizione fisica	1 online resource (136 p.)
Collana	Endocrine development, , 1421-7082 ; ; v. 18
Classificazione	610
Altri autori (Persone)	HindmarshP. C (Peter C.)
Disciplina	615/.363
Soggetti	Somatotropin - Therapeutic use Somatotropin
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	""Cover""; ""Contents""; ""Preface""; ""Chapter 1: Clinical Trials: Planning and Analysis""; ""Abstract""; ""Introduction""; ""Statistical Structure for Planning of Trials""; ""Randomization""; ""Outcomes in Studies of

Growth Hormone Therapy"; "Longitudinal Measurements"; "Multiple Outcomes"; "Issues Related to Trial Design"; "Interpretation of Negative Trials"; "Non-Inferiority Trials"; "Conclusion"; "References"; "Chapter 2: The Evidence Base for Growth Hormone Effectiveness in Children"; "Abstract"; "Evidence Is Not Truth a€? How Do We Know What We Know?"

"GH Therapy a€? How Do We Define Benefit and What Is the Evidence?"; "Height Screening/Monitoring"; "Bone Age and Predicted Height as a Surrogate"; "Where Does Evidence-Based Child Health Fit in Endocrinology"; "Conclusions"; "References"; "Chapter 3: Safety of Recombinant Human GrowthHormone"; "Abstract"; "Short-Term Safety Issues"; "Longer Term Safety Considerations"; "Tumour Risk and Growth Hormone Treatment"; "Conclusion"; "References"; "Chapter 4: Diagnosis of Growth Hormone Deficiency"; "Abstract"; "Introduction"; "Clinical Examination and Auxology"

"Measuring GH Secretion"; "Using Downstream Targets of GH Action a€? IGF-1 and IGFBP-3"; "Neuroradiology"; "Conclusions"; "References"; "Chapter 5: Biological Determinants of Responsiveness to Growth Hormone: Pharmacogenomics and Personalized Medicine"; "Abstract"; "Introduction"; "Pharmacogenomics of Growth"; "GH Insensitivity (GHI)"; "GH Receptor"; "Altered GHR Signaling"; "Growth Responsiveness to GH Therapy, the Impact of the Growth Plate"; "Conclusions"; "References"

"Chapter 6: Clinical Considerations in Using Growth Hormone Therapy in Growth Hormone Deficiency"; "Abstract"; "Introduction"; "Growth Hormone Therapy"; "Conclusions"; "References"; "Chapter 7: Current Indications for Growth Hormone Therapy for Children and Adolescents"; "Abstract"; "Introduction"; "Growth Hormone Deficiency (GHD)"; "Chronic Renal Insufficiency (CRI), also Known as Chronic Kidney Disease (CKD)"; "Turner Syndrome (TS)"; "Children Born Small-for-Gestational Age (SGA), Who Fail to Catch Up to the Normal Growth Channels"; "Prader-Willi Syndrome (PWS)"; "Idiopathic Short Stature (ISS)"; "SHOX Gene Haploinsufficiency (SHOX)"; "Noonan Syndrome (NS)"; "Conclusions"; "References"; "Chapter 8: GH Use in the Transition of Adolescence to Adulthood"; "Abstract"; "Introduction"; "Who, When and How Do We Retest for GH Deficiency during Transition?"; "Efficacy Data"; "Dose"; "Follow-Up"; "Conclusions"; "References"; "Author Index"; "Subject Index"

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## Sommario/riassunto

Growth hormone (GH) has been used therapeutically for over 50 years. Since the development of a nearly unlimited supply of recombinant human GH in the mid-1980s, children with less severe GH deficiency can also profit from GH replacement therapy. Careful and accurate diagnosis and specific dosing, both essential to ensure normal height development, require the clinician to understand the finer points of clinical trials, to acquire quality evidence and assess the benefits of therapeutic intervention. Furthermore, genetic and environmental factors influencing GH sensitivity and responsiveness need to be taken into account. In this second edition all these aspects are covered in depth. Clinical examination, detailed auxological measurements, bone age assessment, molecular analysis and neuro-radiological evaluation as well as an adaptive strategy of dosing focusing on a patient's individual responsiveness are discussed in detail. This volume of Endocrine Development is essential reading for pediatric endocrinologists, pediatricians and clinical nurse specialists involved in GH therapy.

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