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Doktorsavhandling

Human growth patterns - with focus on pubertal growth and secular changes.
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Artikel – Forskningsöversikt, efter inbjudan, refereegranskad

- 1. The Quadratic-Exponential-Pubertal-Stop model is valid for analysing human growth patterns and developing novel growth references. Holmgren A.**
Acta Paediatrica 2022;111(2):225-235

Artiklar – refereegranskade

- 1. Increased incidence of overweight and obesity among preschool Swedish children during the COVID-19 pandemic** Fäldt A, Nejat S, Edvinsson Sollander S, Durbeej N, **Holmgren A** Eur J of Public Health, Dec 2022, doi.org/10.1093/eurpub/ckac181
- 2. Energy Trade-Off and Four Extreme Human Body Types.** Hochberg Z, Albertsson-Wikland K, Prive F, German A, **Holmgren A**, Rubin L, Shmoish M. J Clin Endocrinol Metab, Nov 2022, doi: 10.1210/clinem/dgac665
- 3. Novel type of references for BMI aligned for onset of puberty - using the QEPS growth model.** Albertsson-Wikland K, Niklasson A, Gelerander L, **Holmgren A**, Nierop AFM. BMC Pediatrics 2022;22(1):238
- 4. Growth pattern evaluation of the Edinburgh and Gothenburg cohorts by QEPS height model.** **Holmgren A**, Niklasson A, Nierop AFM, Butler G, Albertsson-Wikland K. Pediatrics Research 2022 Aug;92(2):592-601
- 5. Novel type of references for weight aligned for onset of puberty - using the QEPS growth model.** Albertsson-Wikland K, Niklasson A, Gelerander L, **Holmgren A**, Nierop AFM. BMC Pediatrics 2021;21(1):507
- 6. Swedish references for weight, weight-for-height and body mass index: The GrowUp 1990 Gothenburg study.** Albertsson-Wikland K, Niklasson A, Gelerander L, **Holmgren A**, Sjöberg A, Aronson AS, Nierop AFM. Acta Paediatr 2021;110(2):537-548
- 7. The pubertal growth spurt is diminished in children with severe obesity.** **Holmgren A**, Martos-Moreno G, Niklasson A, Martinez-Villanueva J, Argente J, Albertsson-Wikland K. Pediatric Research 2021;90(1):184-190

8. **A new type of pubertal height reference based on growth aligned for onset of pubertal growth.** Albertsson-Wikland KG, Niklasson A, **Holmgren A**, Gelerander L, Nierop AFM. J Pediatr Endocrinol Metab 2020;33(9):1173-1182
9. **A new Swedish reference for total and prepubertal height.** Albertsson-Wikland K, Niklasson A, **Holmgren A**, Gelerander L, Nierop A. Acta Paediatrica 2019;109:754-763
10. **Nordic populations are still getting taller - secular changes in height from the 20th to 21st century.** **Holmgren A**, Niklasson A, Sjöberg A, Lissner L, Albertsson-Wikland K. Acta Paediatrica 2019;108(7):1311-1320
11. **Estimating secular changes in longitudinal growth patterns underlying adult height with the QEPS model: the Grow Up Gothenburg cohorts.** **Holmgren A**, Niklasson A, Nierop AFM, Gelerander L, Aronson AS, Sjöberg A, Lissner L, Albertsson-Wikland K. Pediatric Research 2018;84(1):41-49
12. **Insight into human pubertal growth by applying the QEPS growth model.** **Holmgren A**, Niklasson A, Gelerander L, Aronson AS, Nierop AFM, Albertsson-Wikland K. BMC Pediatrics 2017;17(1):107
13. **Pubertal height gain is inversely related to peak BMI in childhood.** **Holmgren A**, Niklasson A, Nierop A, Gelerander L, Aronson A, Sjöberg A, Lissner L, Albertsson-Wikland K. Pediatric research 2017;81(3):448-454
14. **Modelling individual longitudinal human growth from fetal to adult life -QEPS I** Nierop A, Niklasson A, **Holmgren A**, Gelerander L, Rosberg S, Albertsson-Wikland K. Journal of Theoretical Biology 2016;406:143-165
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Artiklar- övrig/fackpress

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2. **Bedömning av hälsosam pubertetstillväxt.** Albertsson-Wikland K, Gelerander L, **Holmgren A**, Niklasson A. Skolhälsan 2020;3:10-13.
3. **Pubertetens tillväxtmönster.** **Holmgren A.** Barnläkaren 2019;(6):14-15.

Konferensbidrag – Refereegranskade, publicerade

1. *Overweight and obesity increased among Swedish pre-school children during the COVID-19 pandemic.* **Holmgren A**, Nejat S, Edvinsson Sollander S, Durbeej N, Fäldt A. The 9th EAPS Congress, Barcelona, Spanien 7-11 Oktober 2022
2. *A novel pubertal height reference aligned for the individual variation in the timing of pubertal growth.* **Holmgren A**, Niklasson A, Gellander L, Nierop AFM, Albertsson-Wikland K. The 9th EAPS Congress, Barcelona, Spanien 7-11 Oktober 2022
3. *Novel pubertal weight and BMI references aligned for the individual variation in the timing of pubertal growth.* **Holmgren A**, Niklasson A, Gellander L, Nierop AFM, Albertsson-Wikland K. The 9th EAPS Congress, Barcelona, Spanien 7-11 Oktober 2022
4. *Continuous growth reference from 24th week of gestation to 24 months by sex for length, weight, and head circumferences, based on the healthiest of Swedish Birth Registry 1990-99 and the GrowUp 1990 Gothenburg cohort.* Niklasson A, Gellander L, **Holmgren A**, Nierop AFM, Albertsson-Wikland K. The 60th Annual ESPE Meeting, Rom, Italien, 15-17 September, 2022.
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8. *Energy Trade-Off Score - a novel anthropometric polygenic trait, and related body types.* Hochberg Z, Albertsson-Wikland K, Prive F, German A, **Holmgren A**, Rubin L, Shmoish M. The 60th Annual ESPE Meeting, Rom, Italien, 15-17 September, 2022.
9. *Evaluation of growth patterns from the Edinburgh and Gothenburg cohorts by the QEPS model.* **Holmgren A**, Niklasson A, Nierop AFM, Butler G, Albertsson-Wikland K. The 59th Annual ESPE Meeting, Online, 22-26 September 2021
10. *Mother's smoking during pregnancy influence intrauterine and postnatal growth - the GrowUp 1990 Gothenburg cohort population* **Holmgren A**, Niklasson A, Aronson AS, Albertsson-Wikland K. The 59th Annual ESPE Meeting, Online, 22-26 September 2021
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16. *The More Obese – The Less Pubertal Height Gain.* **Holmgren A**, Niklasson A, Martínez-Villanueva J, Martos-Moreno G, Argente J, Albertsson-Wikland K. The 57th Annual ESPE Meeting, Aten, Grekland, 27-29 September 2018. *Horm Res Paediatr* 2018;90:1–680
17. *A Novel Type of Pubertal Height, Weight, and BMI Reference, Aligned for Onset of Puberty.* Albertsson-Wikland K, Niklasson A, Gelander L, **Holmgren A**, Aronson S, Sjöberg A, Lissner L. The 57th Annual ESPE Meeting, Aten, Grekland, 27-29 September 2018. *Horm Res Paediatr* 2018;90:1–680.
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27. *Gender Difference in Secular Trend in Sweden.* **Holmgren A**, Niklasson A, Nierop AFM, Gelerander L, Sjöberg A, Aronson S, Albertsson-Wikland K, Niklasson A. *Horm Res Paediatr*; 2014.
28. *QEPS - a new mathematical model describing individual human growth.* Nierop AFMN, Niklasson A, **Holmgren A**, Gelerander L, Aronson SA, Albertsson-Wikland K. Milan, Italy 19-22 Sept 2013.: 9th Joint Meeting of Paediatric Endocrinology; 2013. *Hormone Research in Paediatrics* 80(suppl1):152-153
29. *New puberty growth model for estimation of individual pubertal growth parameters and their precision.* **Holmgren A**, Nierop AFM, Niklasson A, Gelerander L, Aronson S, Albertsson-Wikland K. Milan, Italy: 9th Joint Meeting of Paediatric Endocrinology, 19-22 Sept 2013.
30. *Persisterande ductus arteriosus hos prematura barn –farmakologisk eller kirurgisk terapi?* **Holmgren A**, Göthe-Barringer K, Hanseus K. Poster vid Svenska Läkaresällskapets Riksstämman, Stockholm, 1993-12-01.

Inskickade manuskript

1. Evaluating cut-offs for automatic growth screening in Swedish children using the Finnish growth-monitoring algorithm Gelande L, Niklasson A, **Holmgren A**, Saari A, Dunkel L, Albertsson-Wikland K.

Manuskript

M1. Growth patterns in patients with congenital adrenal hyperplasia Navardauskaite R, Niklasson A, Nierop AFM, Verkauskiene R, Albertsson-Wikland K, **Holmgren A**

M2. The relation between menarche and the pubertal growth spurt Gårdstedt J, Niklasson A, Aronson S, Nierop AFM, Albertsson-Wikland K, **Holmgren A**

M3. Growth and puberty development -the relationship between pubertal growth and secondary sexual characteristics. Bergendahl S, Niklasson A, Aronson S, Nierop AFM, Albertsson-Wikland K, **Holmgren A**

M4. Mother's smoking during pregnancy influence pre and postnatal growth. **Holmgren A**, Niklasson A, Aronson, AS, Albertsson-Wikland K.

M5. Updated Reference for birth, gestational week 24-43, & infancy growth of head circumferences, length, and weight. Niklasson A, **Holmgren A**, Gelande L, Nierop AFM, Albertsson-Wikland, K.

M6. Tinnitus, a sex-dependent marker for QoL in young adults – the GrowUp Gothenburg study. Barrenäs M-L, Sjöberg A, Wassberg E, **Holmgren A**, Albertsson-Wikland K.