

Dedicated to transforming the care of people living with rare genetic diseases of obesity

OBESITY - A MAJOR PUBLIC HEALTH CHALLENGE¹



RARE GENETIC DISEASES OF OBESITY^{2,7}

Rare genetic variants



COMMON OR POLYGENIC OBESITY³⁻⁵

MONOGENIC OBESITY MAY RANGE FROM 5% UP TO 7% AMONG PEOPLE WITH EARLY ONSET SEVERE OBESITY⁶⁻¹⁶

These cases are characterised by:⁷⁻¹⁷



Early-onset, severe obesity



Hyperphagia



Multiple comorbidities



Impaired quality of life



GENETIC DIAGNOSIS IS KEY IN TAILORING CARE USING A MULTIDISCIPLINARY TEAM-BASED APPROACH¹⁸⁻¹⁹

1. WHO - <https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight>. 2. Speliotes EK, et al. Nat Genet. 2010;41(11):937-948. 3. Muñoz Yáñez C, et al. Austin J Nutr Metab. 2017;4(3):1052. 4. National Heart, Lung, and Blood Institute. <https://www.nhlbi.nih.gov/health-topics/overweight-and-obesity>. Accessed August 23, 2021. 5. Domecq JP, et al. J Clin Endocrinol Metab. 2015;100(2):363-370. 6. Clement et al. Physiol Behav 2020; 227 :113-134. 7. Huvenne H, et al. Obes Facts. 2016;9(3):158-173. 8. Coll AP, et al. J Clin Endocrinol Metab. 2004;89(6):2557-2562. 9. Argente J, et al. Endocr Abstr. 2019;63:P976. 10. Farooqi IS, O'Rahilly S. J Endocrinol. 2014;223(1):T63-T70. 11. Thaker V V. Adolesc Med State Art Rev. 2017;28(2):379-405. 12. Forsythe E, et al. Front Pediatr. 2018;6:23. 13. Sherafat-Kazemzadeh R, et al. Pediatr Obes. 2013;8(5):e64-e67. 14. Pigeyre M, et al. Clin Sci (Lond). 2016;130(12):943-986. 15. Heymsfield SB, et al. Obesity (Silver Spring). 2014;22(suppl 1):S1-S17. 16. Nigatu YT, et al. PLoS One. 2016;11(2):e0148871. 17. Wallander JL, et al. Int J Obes (Lond). 2013;37(7):920-925. 18. Styne DM, et al. J Clin Endocrinol Metab. 2017;102(3):709-757. 19. Van der Valk ES, et al. Obes Rev. 2019;20(6):795-804.