



Personalised Mental Health References

Please see some of the references used to inform the presentation given by Dr Cam McDonald. This list represents some key studies used to create the presentation, and briefly summarise the body of research drawn from to generate predictive and personalised health outputs.

For more resources on the functionality of these studies after they have been synthesised into a usable format, please see www.ph360.me/health-professional

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"Testosterone and Human Aggression: an Evaluation of the Challenge Hypothesis." <i>Neuroscience & Biobehavioral Reviews</i> , Pergamon, 25 Feb. 2005, www.sciencedirect.com/science/article/pii/S0149763405000102 .
Abney, M, et al. "Broad and Narrow Heritabilities of Quantitative Traits in a Founder Population." <i>American Journal of Human Genetics.</i> , U.S. National Library of Medicine, May 2001, www.ncbi.nlm.nih.gov/pubmed/11309690 .
Addoum, Jawad M., George Korniotis, and Alok Kumar. "Stature, obesity, and portfolio choice." <i>Management Science</i> (2016).
Al-Ayadhi, Laila Y. "Sex hormones, personality characters and professional status among Saudi females." <i>Saudi Medical Journal</i> 25.6 (2004): 711-716.
Aluja, Anton, et al. "Interactions among impulsiveness, testosterone, sex hormone binding globulin and androgen receptor gene CAG repeat length." <i>Physiology & behavior</i> 147 (2015): 91-96.
Archer, J. (2006). Testosterone and human aggression: an evaluation of the challenge hypothesis. <i>Neuroscience and Biobehavioral Reviews</i> , 30, 319–345.
Avgoustinaki, Pavlina D., et al. "Sex steroids and personality traits in the middle luteal phase of healthy normally menstruating young professional women." <i>Hormones (Athens)</i> 11.3 (2012): 333-43.
Bartels, M, et al. "Heritability of Cortisol Levels: Review and Simultaneous Analysis of Twin Studies." <i>Psychoneuroendocrinology.</i> , U.S. National Library of Medicine, Feb. 2003, www.ncbi.nlm.nih.gov/pubmed/12510008 .
Baucom, Donald H., Paige K. Besch, and Steven Callahan. "Relation between testosterone concentration, sex role identity, and personality among females." <i>Journal of Personality and Social Psychology</i> 48.5 (1985): 1218.
Behre, Hermann M., Manuela Simoni, and Eberhard Nieschlag. "Strong association between serum levels of leptin and testosterone in men." <i>Clinical Endocrinology</i> 47.2 (1997): 237-240.
Ben-Aryeh, H., et al. "Salivary testosterone levels in men and women: changes with age and correlation with plasma testosterone." <i>Israel journal of medical sciences</i> 25.6 (1989): 344-346.
Björntorp, P. E. R. "Body fat distribution, insulin resistance, and metabolic diseases." <i>Nutrition</i> 13.9 (1997): 795-803.
Björntorp P. E. R 1987. Fat cell distribution and metabolism: In: RJ Wurthman, JJ Wurthman (Eds.): <i>Human Obesity</i> . New York: The New York Academy of Sciences, pp. 232-309.



Personalised Mental Health References

Böhnke, Robina, et al. "The relationship between basal and acute HPA axis activity and aggressive behavior in adults." <i>Journal of Neural Transmission</i> 117.5 (2010): 629-637.
Bornstein, S R, et al. "Approaching the Shared Biology of Obesity and Depression: the Stress Axis as the Locus of Gene[NDash]Environment Interactions." <i>Nature News</i> , Nature Publishing Group, 1 Aug. 2006, www.nature.com/mp/journal/v11/n10/abs/4001873a.html .
Bouchard Jr, Thomas J. "Genetic and environmental influences on adult personality: Evaluating the evidence." <i>Foundations of personality</i> . Springer Netherlands, 1993. 15-44.
Brämswig, J. H., et al. "The results of short-term (6 months) high-dose testosterone treatment on bone age and adult height in boys of excessively tall stature." <i>European journal of pediatrics</i> 148.2 (1988): 104-106.
Brand, Judith S., et al. "Testosterone, sex hormone-binding globulin and the metabolic syndrome in men: an individual participant data meta-analysis of observational studies." <i>PloS one</i> 9.7 (2014): e100409.
Brandtstädter, Jochen, et al. "Developmental and personality correlates of adrenocortical activity as indexed by salivary cortisol: observations in the age range of 35 to 65 years." <i>Journal of psychosomatic research</i> 35.2 (1991): 173-185.
Burnham, Terence C., et al. "Men in committed, romantic relationships have lower testosterone." <i>Hormones and Behavior</i> 44.2 (2003): 119-122.
Burns, Robert B. "Personality theories." <i>Essential Psychology: For Students and Professionals in the Health and Social Services</i> (1991): 121-137.
Calati, Raffaella, et al. "Modulation of a number of genes on personality traits in a sample of healthy subjects." <i>Neuroscience letters</i> 566 (2014): 320-325.
Camacho-Martínez, Francisco M. "Hair loss in women." <i>Seminars in cutaneous medicine and surgery</i> . Vol. 28. No. 1. Frontline Medical Communications, 2009.
Case, Anne, and Christina Paxson. 2008. Stature and Status: Height, Ability, and Labor Market Outcomes. <i>Journal of Political Economy</i> 116 (3):499-532.
Cashdan, E. (1995). Hormones, sex, and status in women. <i>Hormones and Behavior</i> , 29, 354–366
Comings, D. E., et al. "Potential role of the estrogen receptor gene(ESR 1) in anxiety." <i>Molecular psychiatry</i> 4.4 (1999): 374-377.
Comings, D. E., et al. "The dopamine D2 receptor (DRD2) as a major gene in obesity and height." <i>Biochemical medicine and metabolic biology</i> 50.2 (1993): 176-185.
Crockett, Molly J., et al. "Serotonin modulates behavioral reactions to unfairness." <i>Science</i> 320.5884 (2008): 1739-1739.
Csathó, Árpád, et al. "Sex role identity related to the ratio of second to fourth digit length in women." <i>Biological psychology</i> 62.2 (2003): 147-156.
Cunningham, G R. "Testosterone and Metabolic Syndrome." <i>Asian Journal of Andrology</i> ., U.S. National Library of Medicine, www.ncbi.nlm.nih.gov/pubmed/25652634 .
Dabbs Jr, James M. "Testosterone and occupational achievement." <i>Social Forces</i> 70.3 (1992): 813-824.
De Waal, W. J., et al. "High dose testosterone therapy for reduction of final height in constitutionally tall boys: does it influence testicular function in adulthood?." <i>Clinical endocrinology</i> 43.1 (1995): 87-95.



Personalised Mental Health References

Deady, D. K., et al. "Maternal personality and reproductive ambition in women is associated with salivary testosterone levels." <i>Biological psychology</i> 71.1 (2006): 29-32.
Demark-Wahnefried, W.E.N.D.Y., et al. "Serum androgens: associations with prostate cancer risk and hair patterning." <i>Journal of andrology</i> 18.5 (1997): 495-500.
Edelstein, R.S., Stanton, S.J., Henderson, M.M., Sanders, M.R., 2010. Endogenous estradiol levels are associated with attachment avoidance and implicit intimacy motivation. <i>Horm. Behav.</i> 57, 230–236.
Eichhammer, P., et al. "Variation at the DRD4 promoter modulates extraversion in Caucasians." <i>Molecular Psychiatry</i> 10.6 (2005): 520.
Eid, Michael, et al. "Sociability and positive emotionality: Genetic and environmental contributions to the covariation between different facets of extraversion." <i>Journal of personality</i> 71.3 (2003): 319-346.
Epel, Elissa E., et al. "Stress-Induced Cortisol, Mood, and Fat Distribution in Men." <i>Obesity</i> 7.1 (1999): 9-15.
Epel, Elissa S., et al. "Stress and body shape: stress-induced cortisol secretion is consistently greater among women with central fat." <i>Psychosomatic medicine</i> 62.5 (2000): 623-632.
Eriksson, A. L., et al. "SHBG Gene Promoter Polymorphisms in Men Are Associated with Serum Sex Hormone-Binding Globulin, Androgen and Androgen Metabolite Levels, and Hip Bone Mineral Density." <i>The Journal of Clinical Endocrinology & Metabolism</i> , vol. 91, no. 12, 2006, pp. 5029–5037., doi:10.1210/jc.2006-0679.
Fleming, Alison S., et al. "Testosterone and prolactin are associated with emotional responses to infant cries in new fathers." <i>Hormones and behavior</i> 42.4 (2002): 399-413.
Fuemmeler, Bernard F., et al. "Genes implicated in serotonergic and dopaminergic functioning predict BMI categories." <i>Obesity</i> 16.2 (2008): 348-355.
Gade-Andavolu, R., et al. "Association between the estrogen receptor TA polymorphism and Harm avoidance." <i>Neuroscience letters</i> 467.2 (2009): 155-158.
Gettler, Lee T., et al. "Adiposity, CVD risk factors and testosterone: Variation by partnering status and residence with children in US men." <i>Evolution, medicine, and public health</i> 2017.1 (2017): 67-80.
Giagulli, VITO A., JEAN MARC Kaufman, and Alex Vermeulen. "Pathogenesis of the decreased androgen levels in obese men." <i>The Journal of Clinical Endocrinology & Metabolism</i> 79.4 (1994): 997-1000.
Giegling, Ina, et al. "Do the estrogen receptors 1 gene variants influence the temperament and character inventory scores in suicidal attempters and healthy subjects?." <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> 150.3 (2009): 434-438.
Graeff, Frederico G., et al. "Role of 5-HT in stress, anxiety, and depression." <i>Pharmacology Biochemistry and Behavior</i> 54.1 (1996): 129-141.
Grant, V. J., & France, J. T. (2001). Dominance and testosterone in women. <i>Biological Psychology</i> , 58, 41–47.
Haffner, S. M., et al. "Obesity, body fat distribution and sex hormones in men." <i>International journal of obesity and related metabolic disorders: journal of the International Association for the Study of Obesity</i> 17.11 (1993): 643-649.
Hahn, Amanda C., et al. "A longitudinal analysis of women's salivary testosterone and intrasexual competitiveness." <i>Psychoneuroendocrinology</i> 64 (2016): 117-122.



Personalised Mental Health References

Harris, Julie Aitken, et al. "Salivary testosterone and self-report aggressive and pro-social personality characteristics in men and women." <i>Aggressive Behavior</i> 22.5 (1996): 321-331.
Hawes, David J., John Brennan, and Mark R. Dadds. "Cortisol, callous-unemotional traits, and pathways to antisocial behavior." <i>Current opinion in psychiatry</i> 22.4 (2009): 357-362.
Hermida, Ramon C., Franz Halberg, and Francisco del Pozo. "Chronobiologic pattern discrimination of plasma hormones, notably DHEA-S and TSH, classifies an expansive personality." <i>Chronobiologia</i> (1985).
Hindawi. "Waist-to-Hip Ratio, but Not Body Mass Index, Is Associated with Testosterone and Estradiol Concentrations in Young Women." <i>International Journal of Endocrinology</i> , Hindawi, 17 Aug. 2015, www.hindawi.com/journals/ije/2015/654046/ .
introversion. <i>Perceptual and Motor Skills</i> , 87, 882.
Jasieńska, Grazyna, et al. "Large breasts and narrow waists indicate high reproductive potential in women." <i>Proceedings of the Royal Society B: Biological Sciences</i> 271.1545 (2004): 1213.
Johannsson, Gudmundur, et al. "Low dose dehydroepiandrosterone affects behavior in hypopituitary androgen-deficient women: a placebo-controlled trial." <i>The Journal of Clinical Endocrinology & Metabolism</i> 87.5 (2002): 2046-2052.
Josephs, Robert A., et al. "The mismatch effect: when testosterone and status are at odds." <i>Journal of personality and social psychology</i> 90.6 (2006): 999.
Karkare, Ajay Y. "A Psychological and Anthropometric View of the Tribal and Non Tribal Players." <i>Sendhwa Dist. Barwani (MP)</i> 1.1 (2011): 18.
Kirschner, M. A., et al. "Androgen-estrogen metabolism in women with upper body versus lower body obesity." <i>The Journal of Clinical Endocrinology & Metabolism</i> 70.2 (1990): 473-479.
Klump, K. L., et al. "Ovarian hormones and binge eating: exploring associations in community samples." <i>Psychological medicine</i> 38.12 (2008): 1749-1757.
Klump, Kelly L., et al. "Ovarian hormones and emotional eating associations across the menstrual cycle: an examination of the potential moderating effects of body mass index and dietary restraint." <i>International Journal of Eating Disorders</i> 46.3 (2013): 256-263.
Kuh, Diana L., Chris Power, and Bryan Rodgers. "Secular trends in social class and sex differences in adult height." <i>International Journal of Epidemiology</i> 20.4 (1991): 1001-1009.
Lester D. (1974) <i>A physiological basis for personality traits</i> . Springfield, IL: Charles Thomas.
Lester, D., and Berry, D. (1998). <i>Autonomic nervous system balance and</i>
Manning, John T. <i>Digit ratio: A pointer to fertility, behavior, and health</i> . Rutgers University Press, 2002.
Markianos, M., et al. "Elevated CSF serotonin and dopamine metabolite levels in overweight subjects." <i>Obesity</i> 21.6 (2013): 1139-1142.
Mazur, A., & Booth, A. (1998). Testosterone and dominance in men. <i>Behavioral Brain Sciences</i> , 21, 353–397
McElduff, A., et al. "Forearm mineral content in normal men: relationship to weight, height and plasma testosterone concentrations." <i>Bone</i> 9.5 (1988): 281-283.
Mehta, Pranjal H., and Smrithi Prasad. "The dual-hormone hypothesis: a brief review and future research agenda." <i>Current opinion in behavioral sciences</i> 3 (2015): 163-168.



Personalised Mental Health References

Mödder, Ulrike I., et al. "Relation of serum serotonin levels to bone density and structural parameters in women." <i>Journal of bone and mineral research</i> 25.2 (2010): 415-422.
Morris, Paul D, and Kevin S Channer. "Testosterone and Cardiovascular Disease in Men." <i>Asian Journal of Andrology</i> , Nature Publishing Group, May 2012, www.ncbi.nlm.nih.gov/pmc/articles/PMC3720171/ .
Moyer, Anne E., et al. "Stress-Induced Cortisol Response and Fat Distribution in Women." <i>Obesity</i> 2.3 (1994): 255-262.
Myers, Regina L., et al. "Polymorphisms in the regulatory region of the human serotonin 5-HT 2A receptor gene (HTR2A) influence gene expression." <i>Biological Psychiatry</i> 61.2 (2007): 167-173.
Nandi, Arpita Mandal, and AB Das Chaudhuri. "Anthropometric-hormonal correlation: an overview." <i>Journal of Life Sciences</i> 2.2 (2010): 65-71.
Nardi, Bernardo, et al. "Genetic factors in inward vs outward personality organizations: focus on HTR2A polymorphisms." <i>Quaderni Italiani di Psichiatria</i> 30.2 (2011): 83-88.
Ohlsson, Claes, et al. "Genetic Determinants of Serum Testosterone Concentrations in Men." <i>PLOS Genetics</i> , Public Library of Science, journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1002313 .
Olweus, Dan, et al. "Testosterone, aggression, physical, and personality dimensions in normal adolescent males." <i>Psychosomatic medicine</i> 42.2 (1980): 253-269.
Oswald, Lynn M., et al. "Relationship between cortisol responses to stress and personality." <i>Neuropsychopharmacology</i> 31.7 (2006): 1583.
Otonari, Jun, et al. "Neuroticism and extraversion personality traits, health behaviours, and subjective well-being: The Fukuoka Study (Japan)." <i>Quality of Life Research</i> 21.10 (2012): 1847-1855.
Pailhez, Guillem, et al. "Ectomorphic somatotype and joint hypermobility are linked in panic and agoraphobic patients: A case-control study." <i>International journal of psychiatry in clinical practice</i> 18.2 (2014): 112-117.
Penton-Voak, Ian S., and Jennie Y. Chen. "High salivary testosterone is linked to masculine male facial appearance in humans." <i>Evolution and Human Behavior</i> 25.4 (2004): 229-241.
Pinto Pereira, Snehal M., Leah Li, and Chris Power. "Early-life predictors of leisure-time physical inactivity in midadulthood: findings from a prospective British birth cohort." <i>American journal of epidemiology</i> 180.11 (2014): 1098-1108.
Polednak, Anthony P. "Body build of paranoid and non-paranoid schizophrenic males." <i>The British Journal of Psychiatry</i> 119.549 (1971): 191-192.
Potischman, Nancy, et al. "Reversal of relation between body mass and endogenous estrogen concentrations with menopausal status." <i>JNCI: Journal of the National Cancer Institute</i> 88.11 (1996): 756-758.
Pruessner, Jens C., et al. "Increasing correlations between personality traits and cortisol stress responses obtained by data aggregation." <i>Psychoneuroendocrinology</i> 22.8 (1997): 615-625.
Quist, Michelle C., et al. "Facial masculinity is a cue to women's dominance." <i>Personality and Individual Differences</i> 50.7 (2011): 1089-1093.
Randall, Valerie Anne, et al. "Mechanism of androgen action in cultured dermal papilla cells derived from human hair follicles with varying responses to androgens in vivo." <i>Journal of investigative dermatology</i> 98.6 (1992): S86-S91.



Personalised Mental Health References

Rukavina, Stefanie, et al. "Sexual hormones influence Gray's Theory of Personality." <i>Psychology Research</i> 3.3 (2013): 153.
Samaras, Thomas T. "Should we be concerned over increasing body height and weight?." <i>Experimental gerontology</i> 44.1 (2009): 83-92.
Santoro, Nanette, et al. "Correlates of circulating androgens in mid-life women: the study of women's health across the nation." <i>The Journal of Clinical Endocrinology & Metabolism</i> 90.8 (2005): 4836-4845.
Schick, Andreas, and Richard H. Steckel. Height as a proxy for cognitive and non-cognitive ability. No. w16570. National Bureau of Economic Research, 2010.
Seidman, Stuart N., et al. "Testosterone level, androgen receptor polymorphism, and depressive symptoms in middle-aged men." <i>Biological psychiatry</i> 50.5 (2001): 371-376.
Sellers, Jennifer Guinn, Matthias R. Mehl, and Robert A. Josephs. "Hormones and personality: testosterone as a marker of individual differences." <i>Journal of Research in Personality</i> 41.1 (2007): 126-138.
Signorelli, M., et al. "EPA-1307-Associations between genetic polymorphisms and personality traits in healthy subjects." <i>European Psychiatry</i> 29 (2014): 1.
Smith, Miriam J. Law, et al. "Maternal tendencies in women are associated with estrogen levels and facial femininity." <i>Hormones and Behavior</i> 61.1 (2012): 12-16.
Smith, MJ Law, et al. "Facial appearance is a cue to oestrogen levels in women." <i>Proceedings of the Royal Society of London B: Biological Sciences</i> 273.1583 (2006): 135-140.
Stanton, Steven J., and Oliver C. Schultheiss. "Basal and dynamic relationships between implicit power motivation and estradiol in women." <i>Hormones and behavior</i> 52.5 (2007): 571-580.
Teasdale, T. W., David R. Owen, and T. I. A. Sørensen. "Intelligence and educational level in adult males at the extremes of stature." <i>Human Biology</i> (1991): 19-30.
Travison, TG, et al. "The Heritability of Circulating Testosterone, Estradiol, Estrone, and SHBG Concentrations in Men: The Framingham Heart Study." <i>Clinical Endocrinology</i> , U.S. National Library of Medicine, Feb. 2014, www.ncbi.nlm.nih.gov/pmc/articles/PMC3825765/ .
van Honk, J., Tuiten, A., & Verbaten, R. (1999). Correlations among salivary testosterone, mood, and selective attention to threat in humans. <i>Hormones and Behavior</i> , 36, 17–24
van Honk, Jack, et al. "Baseline salivary cortisol levels and preconscious selective attention for threat: A pilot study." <i>Psychoneuroendocrinology</i> 23.7 (1998): 741-747.
van Honk, Jack, et al. "Conscious and preconscious selective attention to social threat: Different neuroendocrine response patterns." <i>Psychoneuroendocrinology</i> 25.6 (2000): 577-591.
Walderhaug, Espen, et al. "Lowering of serotonin by rapid tryptophan depletion increases impulsiveness in normal individuals." <i>Psychopharmacology</i> 164.4 (2002): 385-391.
Westberg, Lars, et al. "Association between a dinucleotide repeat polymorphism of the estrogen receptor alpha gene and personality traits in women." <i>Molecular psychiatry</i> 8.1 (2003): 118.
Westberg, Lars, et al. "Influence of androgen receptor repeat polymorphisms on personality traits in men." <i>Journal of psychiatry & neuroscience: JPN</i> 34.3 (2009): 205.



Personalised Mental Health References

Wirth, Michelle M., and Oliver C. Schultheiss. "Effects of affiliation arousal (hope of closeness) and affiliation stress (fear of rejection) on progesterone and cortisol." *Hormones and Behavior* 50.5 (2006): 786-795.

Yuan, X., et al. "Identification of polymorphic loci in the promoter region of the serotonin 5-HT 2C receptor gene and their association with obesity and type II diabetes." *Diabetologia* 43.3 (2000): 373-376.