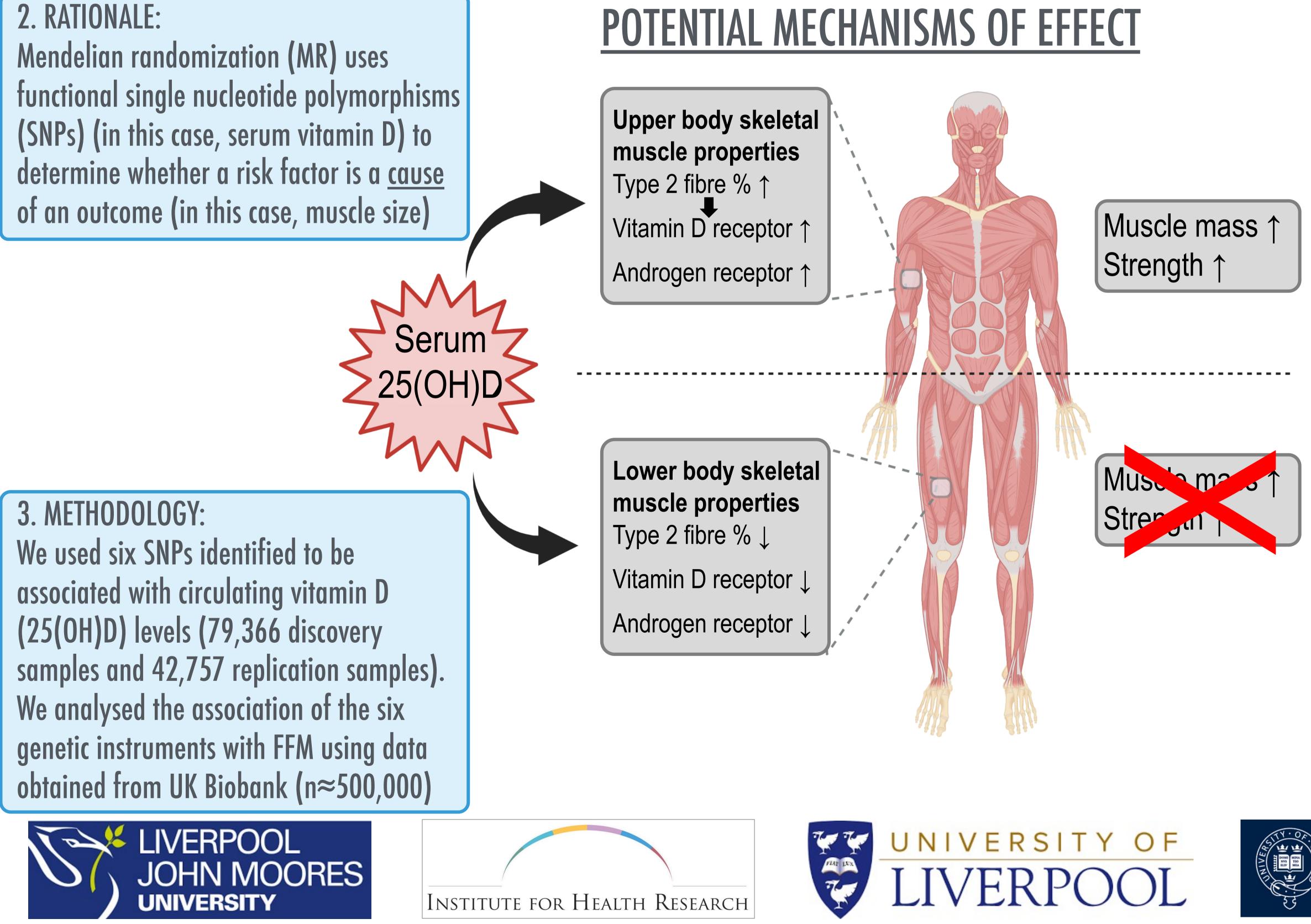
Genetically determined serum 25-hydroxyvitamin D is associated with total, trunk, and arm fat-free mass: a Mendelian randomization study <u>Richard Kirwan¹, Dr Masoud Isanejad², Dr Ian Davies¹, Dr Mohsen Mazidi³ (¹Liverpool John Moores University, ²University of Liverpool, ³University of Oxford)</u>



1. BACKGROUND: Low serum vitamin D status is associated with reduced fat-free mass (FFM) but a causal association has cannot be determined from observational data.

4. **RESULTS**: Genetically determined higher serum 25(OH)D levels had a significant positive association with total trunk and arm FFM. However, the association with leg FFM was not significant.

5. CONCLUSION: Our results illustrate the potentially causal, positive effect of serum 25(OH)D concentration on total, trunk and upper body appendicular fat-free mass.



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