Clinical Research Abstract

Brief Title	Study on the Correlation Between Treg Immune Cells on the Muscle Content and Cognitive Functions of the Elderly
ID	ZDWY.LNBK.007
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Research unit	Fifth Affiliated Hospital, Sun Yat-Sen University
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Statistical unit and person in charge of statistics	Fifth Affiliated Hospital, Sun Yat-Sen University Wenya Han
Research purposes	In order to explore the impact of the level of the elderly TREG immune cells and the effects of different fat distribution and muscle content, the impact of the level of TREG immune cells on cognitive functions is explored. The correlation between visceral fat content, subcutaneous fat content and cognitive function.
Sample size	100
Study Type	Observational
Selected standards for subjects	**Inclusion criteria：** 1. 40-90 years old **Exclusion criteria：** previous diagnosis of dementia (including Alzheimer's disease, Lewy body dementia, Parkinson's disease, or other dementias) were excluded.
Research step	1. Collect 2023-05-01 to 2024-12-31 Elderly patients who are consulting in our hospital at the same time improve the data measurement and TREG cell measurement data at the same time; 2. The level of TREG immune cells and different fat distribution and muscle content Impact; 3. The impact of the level of TREG immune cells on cognitive function; 4.

版本号：V1.0	Evaluate the effects of different fat distribution and muscle content on cognitive functions, evaluate the correlation between internal organs, subcutaneous fat content and cognitive functions; 5. Write the paper.
Terminal indicator	**Cognitive function decline**
Statistical Analysis	Use a linear regression model to analyze the level of the level of TREG immune cells, the effects of different fat distribution and muscle content; the impact of the level of TREG immune cells on the level of TREG immune cells is analyzed by the Mann-Whitney U test; the evaluation of different fat distribution and muscle content The impact on cognitive functions, evaluate the correlation between the content of visceral fat, subcutaneous fat content and cognitive functions. Statistical software includes SPSS27 and Graphpad Prism 8. Inspection level α = 0.05.