Childhood Obesity and Nutrition

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Diabetes and Obesity

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Statement of the ProblemDiabetes is a chronic disease caused by the relative or absolute lack of functional pancreatic cells and is characterized by chronic hyperglycemia. Type 2 diabetes islets exhibit worse gluco stimulated insulin secretion than normal islets and a decrease in MafA expression. Researchers have reported GLP-1 plays important roles in the di erentiation and regeneration of pancreatic cells. However, this perspective that GLP-1 can play an important role in cell trans-di erentiation under the condition of MafA gene deletion and can produce new insulin-producing cells has not been previously studied. e purpose of this study is that glucagon like peptide-1 promotes to trans-di erentiation in the absence of MafA.

Methodology & eoretical Orientation: Male MafA-de cient mice were injected GLP-1 (50 µg/kg body weigh) daily for 4 weeks. Blood glucose level and body weight were measured, and the numbers of immuno uorescent is cells and cells were analyzed by Immunohistochemical analysis. Real-time quantitative PCR was used to analy the change in related transcription.

Findings: GLP-1-treated mice exhibit improved blood glucose levels without hypoglycemia. Mice injected with GLP-1 increase cell regeneration by promoting - cell trans-di erentiation. GLP-1-treated mice may induce the conversion of cells into cells by inducing PDX-1 production.

Conclusion & Signi cance: GLP-1 can reduce fasting blood glucose, decrease body weight, increase caregeneration by promoting to cell trans-di erentiation. is research provides an new incisive point for the treatment of diabetes mellitus and provide the theoretical and experiment bases for treatment of diabetic carefailure.

Biography

&KXDQ =KDQJ KDV KHU H[SHUWLVH LQ HYDOXDWLRQ DQG SDVVLRQ LQ LPSURYLQJ WKH GLDEHWHV D more than 30 years, and she tries to combine the knowledge and technology she has learned in Japan with his clinical work. She has designed this experiment after years of experience in research, evaluation, teaching and administration both in hospital and education institutions. This research provides an new incisivus SRLQW IRU WKH WUHDWPHQW RI GLDEHWHV PHOOLWXV DQG SURYLGH WKH WKHRUHWLFDO DQG H[SH

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