

Method to predict weight loss after bariatric surgery.



Medical need

The prevalence of obesity has increased dramatically in recent decades with a clear upward trend for the coming years.

Current strategies against obesity include restricting energy intake or absorption and increasing energy expenditure through exercise which, depending on the degree of obesity, can be complemented with pharmacological treatment or bariatric surgery.

Oportunity

Prevalence

In 2016, 13% of About the population bariatric was classified as surgeries obese. the effective

do not respond.

Market



performed Bariatric surgery annually, costing options most between \$15K- intake limitation 23K. therapy, but 5- The cost of this along with the 20% of patients prognostic would cost are about \$15.

Other solutions



580K Bariatric surgery the most is are effective therapy; other are and exercise, test use of drugs that less effective.

Technology

Method to predict weight loss in patients undergoing bariatric surgery, based on the study of the expression of two microRNAs.

The analysis is performed from a serum sample, being blood sampling implemented in routine clinical practice.

The method allows results to be obtained quickly and affordably by RT-PCR, a technique widely used in the health sector.

Results

A study was performed in 33 morbidly obese patients with bariatric surgery, divided into two considered responders groups: and nonresponders at 5-8 years based on the %PEP criterion.

The pattern of miRNAs was analyzed and those with differential expression were selected, and then a Spearman correlation was performed to select those associated with %PEP.

Roadmap

IBIMA plataforma BIONAND is looking for a partner to further develop the technology through a codevelopment or licensing agreement.



Patent:

National patent application Priority: 04/12/2023



IBIMA Plataforma BIONAND research group in Obesity, Diabetes and their Comorbidities: Prevention and Treatment.

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