Background

Haemodialysis is the process of purifying the blood of a Kidney Disease patient, and it is the most common method to treat advanced and permanent kidney failure. Maintaining the right chemical balance in the blood is crucial in keeping the patient’s blood pressure under control.

A special diet is recommended for Chronic Kidney Disease (CKD) patients. The diet has to contain low sodium and phosphorus levels, low to moderate potassium levels, the right protein intake, and potential restrictions in fluids intake (depending on severity of CKD stage).

CKD patients who do not stick to the recommended diet risk developing the following conditions: increased blood pressure; heart attacks; shortness of breath; swelling in limbs; muscle cramps; muscle weakness; arrhythmia; itchy skin, weak bones and joint pains.

Some of the existing formulated products in the market for CKD patients have a metallic aftertaste and the patients find it to be unpalatable.

The Layered Cake with Jam formulation meets all the criteria of being low in sodium, phosphorous and potassium, and contains sufficient protein content to meet the CKD patients' nutritional needs. Trials have also been conducted at a local hospital and CKD patients have found the product to be highly palatable.

Technology Features & Specifications

- Suitable for Haemodialysis patients
- Positive feedback from Haemodialysis patients who have tasted the product

Market Trends & Opportunities

According to statistics from National Registry of Diseases Office under Health Promotion Board and Ministry of Health Singapore, there is an increasing trend in elderly patients receiving haemodialysis treatment. In 2013, elderly patients made up more than half of the dialysis patients in Singapore. There is thus a need to develop better tasting diabetic-friendly foods for dialysis patients, so as to provide them with a better quality of life.

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