

Campus Asia Symposium

Reporter: Gong Huiting

Peking Univ. School of Public Health Department of Nutrition and Food Hygiene



My experience









My research project



Part

Our research group

Something about our research group

- Department of Nutrition and Food Hygiene
- Professor Wang Peiyu and Professor Zhang Yumei
- 20 students
- Research fields: Nutritional epidemiology、Nutrition and chronic diseases、Maternal and infant nutrition



Our research projects

- Follow Up Studies: Maternal and infant
- Cross-sectional Studies: Maternal and infant (cooperated with Nestlé) . Adults
- Trials: Lactobacillus paracasei N1115 & Sea buckthorn puree on Dyslipidemia & Pathoglycemia
- Animal Experiments: Exopolysaccharides (EPS) on healthy and Ulcerative Colitis rats



Part 2

My research project

Random controlled trial(RCT)

Effects of Sea Buckthorn puree on people with Prediabetes: A crossover-controlled trial

Funded by Natural Science Foundation of China (NSFC)

Sea buckthorn





Sea buckthorn



Sandy soil and little rainfall

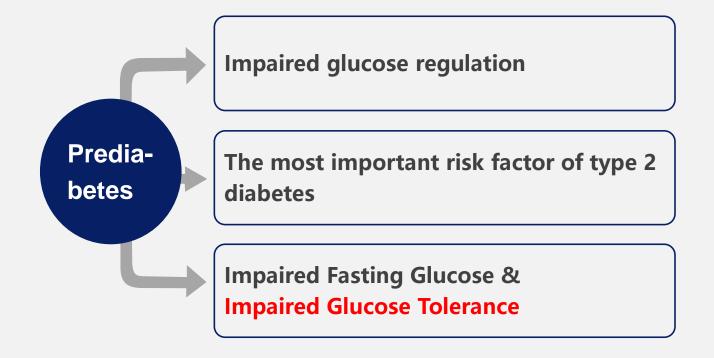
Sea buckthorn

polysaccharose, dietary fiber, Vitamin, flavonoids, organic acid and so on

Rich in carotenoid and Vitamin C

Spiecies	Vitamin C (mg/100g)
European SB	120-315
Alps SB	405-1100
Chinese SB	2500
Lemon	22

Prediabetes



Epidemiology of Prediabetes



Reverse or Progress

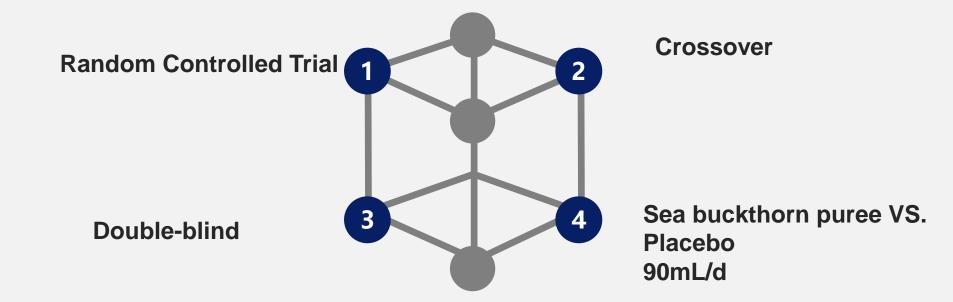
6%-10% Impaired Glucose

Tolerance progress into

Type 2 Diabetes every year

We hope Sea Buckthorn can help us preventing the progression of Prediabetes.

Research Design



Inclusion criteria

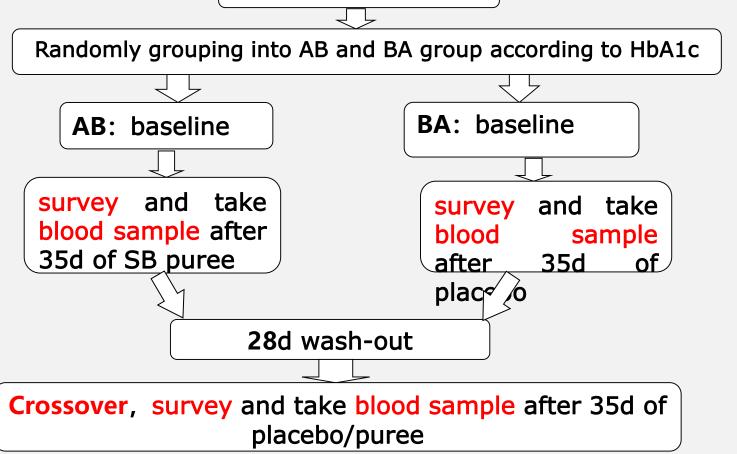


Exclusion criteria

- 1. Diabetes patients.
- 2. Who take hypoglycemic agent.
- 3. Who have impaired liver, thyroid, kidney function or blood disease.
- 4. Who have infectious diseases(HIV, hepatitis, tuberculosis .etc.)
- 5. Active period of gastric ulcer.
- 6. Who take dietary supplements which could affect this trial.
- 7. Who have irregular eating habit.
- 8. Who don't have the ability to finish our survey, e.g.: confused-minded people.

Research Design

Choose volunteers



Survey



International Physical Activity Questionnaire (IPAQ)

Food Frequency Questionnaire (FFQ) & 24 hours dietary record



Blood Sample

75g bread and 1 bag of milk



Plasma glucose, insulin, C-peptide, HbA1c;

peripheral blood inflammatory factors: hs-CRP、IL-6、TNF-α

Some results

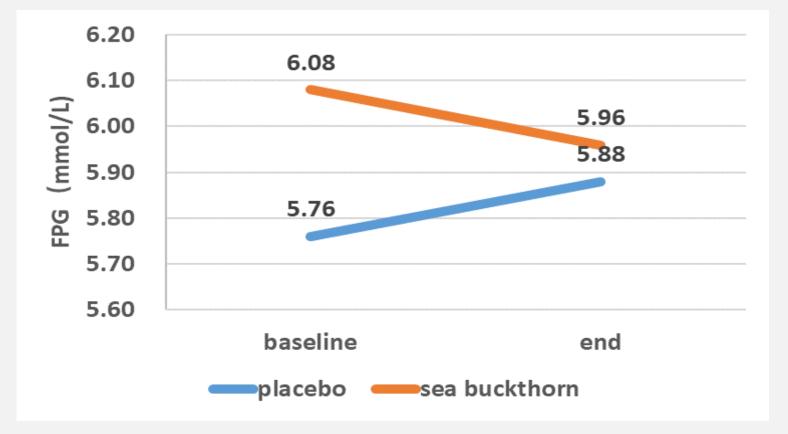


Figure 1. changes of FPG during intervention (p=0.045)

Some results

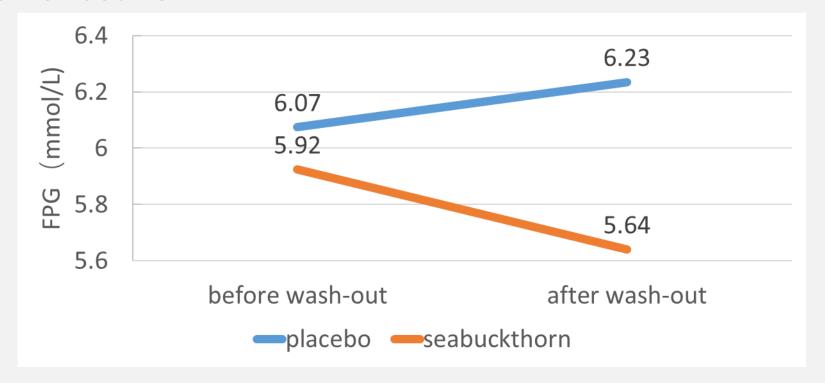


Figure 2. changes of FPG during wash-out period (p=0.043)



Part 3

My experience

What I learned in CAMPUS Asia Project——Yonsei Univ.

- Scientific Research
- Korean Traditional Culture

Scientific research

- Rigorous and serious scientific research attitude
- Adequate preparation
- Patience
- Combination between physical problems with mentality and sociology

Traditional culture





경복궁

Traditional culture

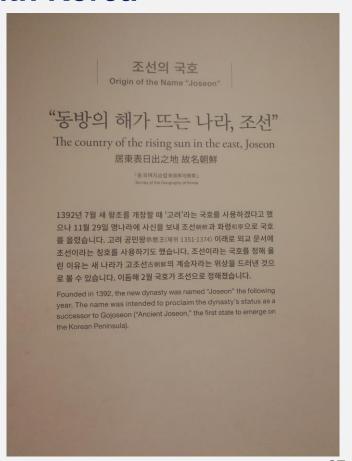


Carved the seal of our name in Korean

National central museum of South Korea

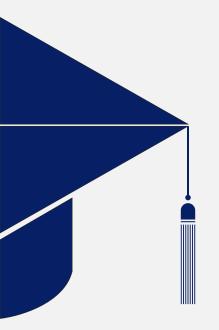


Korean history









Thanks for your attention!