# High Protein Fad Diets and Their Effects on Gut Health

Angela Valdez, MS, RD, CDE



### Effects of the SAD on Gut Health

Disorders associated with gut dysbiosis (not established as cause):

- Gastrointestinal cancers
- Autoimmune diseases, especially inflammatory joint diseases
- IBS and IBD
- Clostridium difficile infection
- Cardio metabolic disorders
- Hypercholesterolemia
- Obesity (preliminary research)
- NAFLD (non-alcoholic fatty liver disease)
- Allergic Disorders
- CNS disorders (anxiety, autism, depression, chronic pain, alcoholism) there is ongoing research with this
- Respiratory infections

## What about the Alaska Native Diet?

- Mostly Raw Foods
- Grass Fed Caribou, Moose, Musk Ox
- Sea Mammals (meat and fat)
- Fish
- Sea Vegetables
- Fermented Greens
- Berries
- Lots and lots of exercise











### Thiamin, Niacin and Folate

#### Thiamin

• Thiamin deficiency is common in some populations (Heart Failure, Anorexia, Alcoholism).

#### Niacin

- Unlikely a person would be niacin deficient if eating a high protein diet.
- o If inadequate in diet, tryptophan will be sacrificed for niacin synthesis.

#### Folate

 Deficiency used to be more widespread before mandatory fortification in the early 1990's.

•









































### Microbiome Supporting Diet

- Variety of meats and protein
  - Fish or grass-fed animals for production of EPA
  - Nuts and Seeds for production of GLA
  - As a source of thiamin
  - As a source of niacin
  - For production of L-Glutamine
- Some of these nutrients can also be obtained from plants

- Variety of carbs

   Insulin secretion supports availability of tryptophan
  - As a source of folate
  - o (Raw) for Vitamin B-6
- Fermented Foods
  - As a source of probiotics
- Fiber all types
  - For production of butyric acid (fruits/veg)
  - As a source of prebiotics
  - For laxative effects (whole grains)
- Brown Rice
  - or rice bran oil for gammaoryzanol

Questions?