

Celiac Disease Case-Finding In Primary Care In North America.

North America Consortium Celiac Disease Case Finding,
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Celiac Research



Case Findings Project a multi-center study

- Preferred Primary Care Physicians
 - Pittsburgh, PA
- University of Virginia Health System
 - Charlottesville, VA
- Wake Forest University School of Medicine
 - Winston-Salem, NC
- St. Boniface General Hospital
 - Manitoba, Canada
- Total number of patients seen the year prior the study: 54,988
- Total number of CD patients diagnosed: 18
- Prevalence: 1:3055



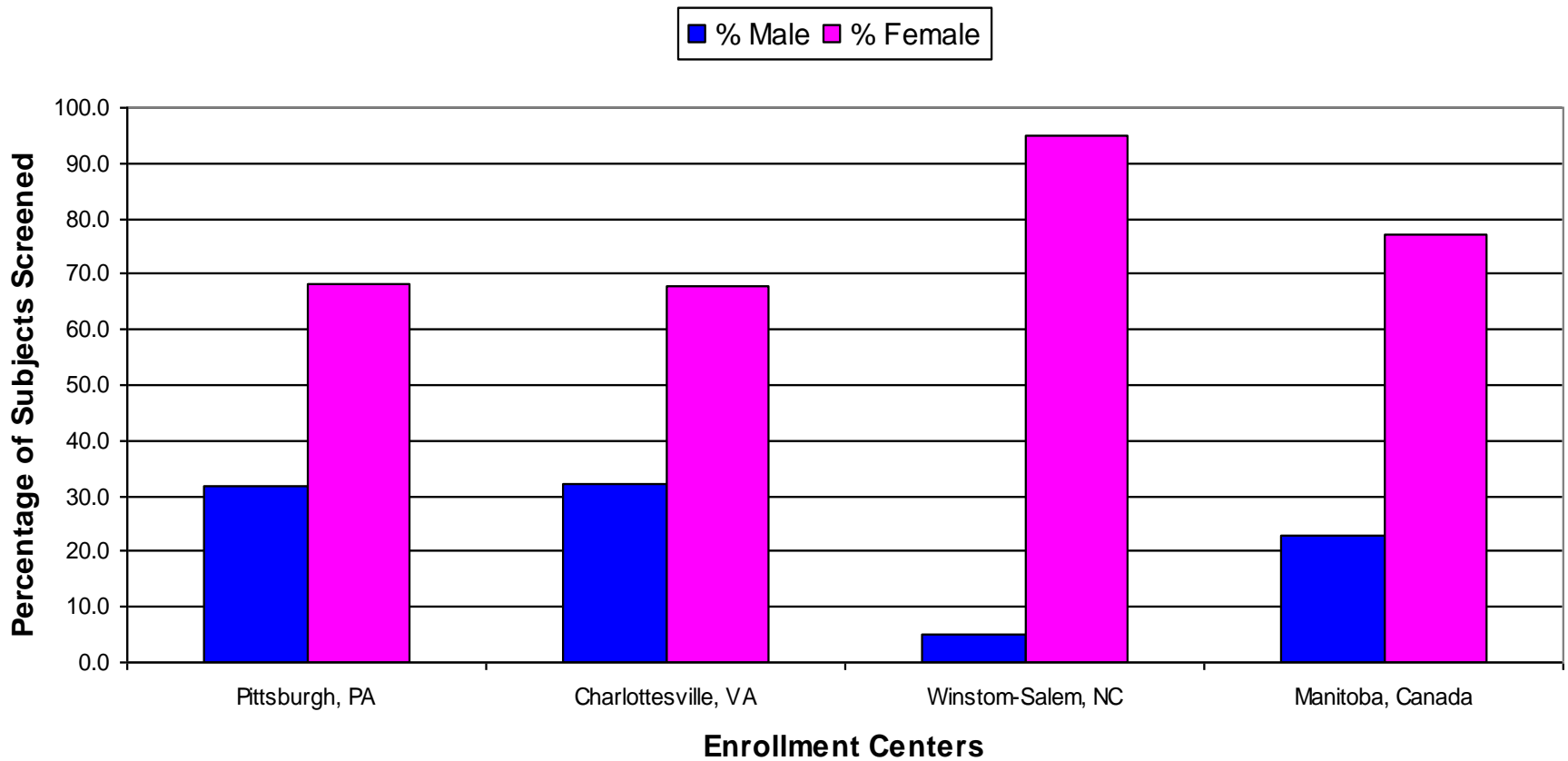
Case Findings Project:

List of the 44 symptoms/diseases that are used to enroll participants

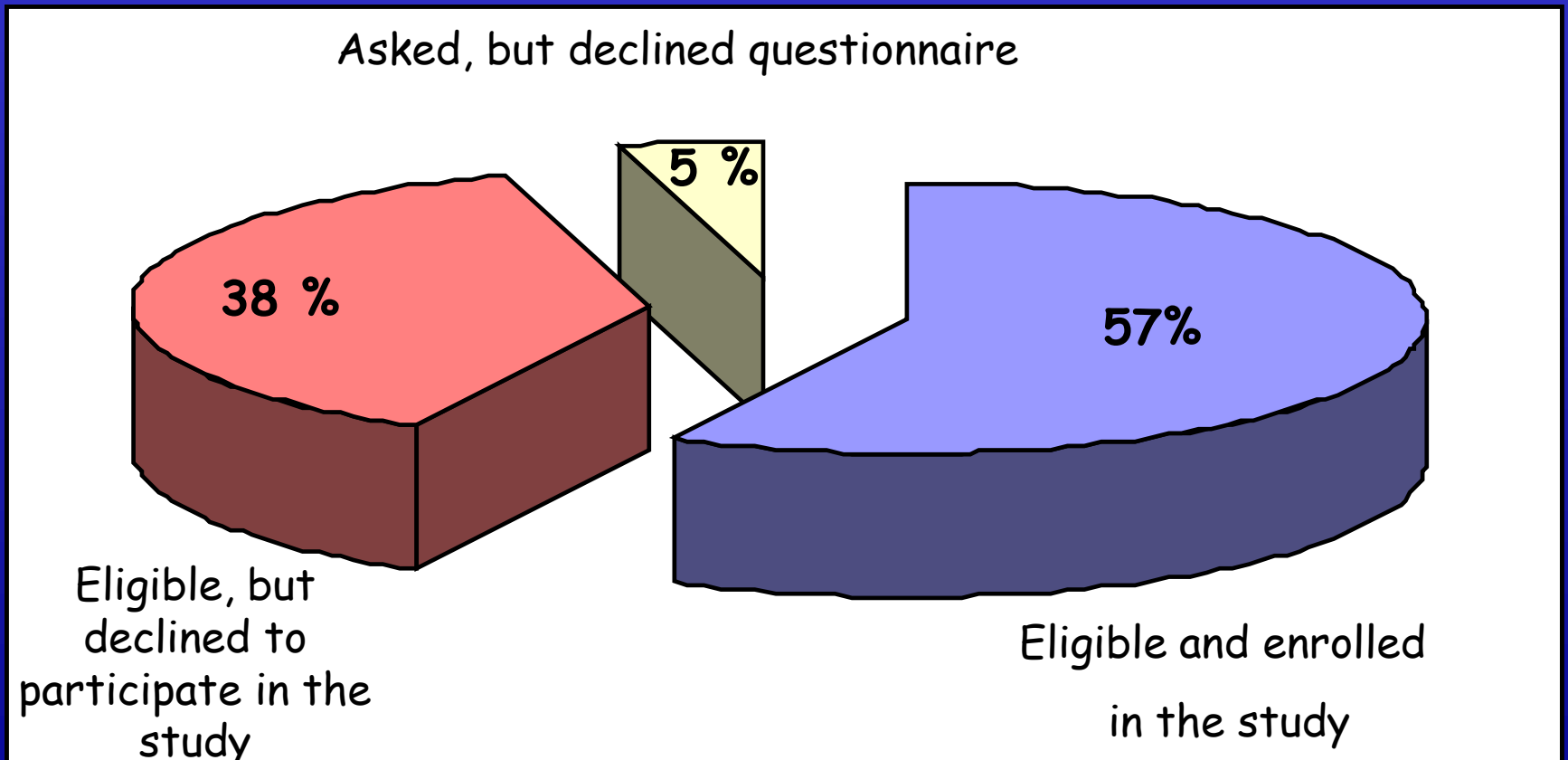
- Abnormal liver test
- Addison disease
- Alopecia
- Anemia
- Ataxia
- Autoimmune hepatitis
- Bloating
- Celiac disease
- Chronic abdominal pain
- Chronic fatigue
- Crohn's disease
- Constipation
- Delayed menarche
- Dermatitis herpetiformis
- Downs syndrome
- Epilepsy
- Family history of celiac
- Hyperthyroidism
- Hypothyroidism
- Total IgA deficiency
- Insulin dependent diabetes
- Infertility
- Iron deficiency
- IBS
- Malnutrition
- Multiple sclerosis
- Non Hodgkin's Lymphoma
- Osteoporosis
- Pathologic fractures
- Peripheral neuropathy
- Primary Biliary cirrhosis
- Psoriasis
- Recurrent abortions
- Recurrent Stomatitis
- Rheumatoid arthritis
- Sclerosing cholangitis
- Sjogren Syndrome
- Systemic lupus
- Thyroiditis
- Turner syndrome
- Ulcerative colitis
- Chronic diarrhea
- Weight loss
- Vitiligo



Percentage of Male/Female Enrollment per site



Of the 1561 patients that were interviewed 881 enrolled in the study

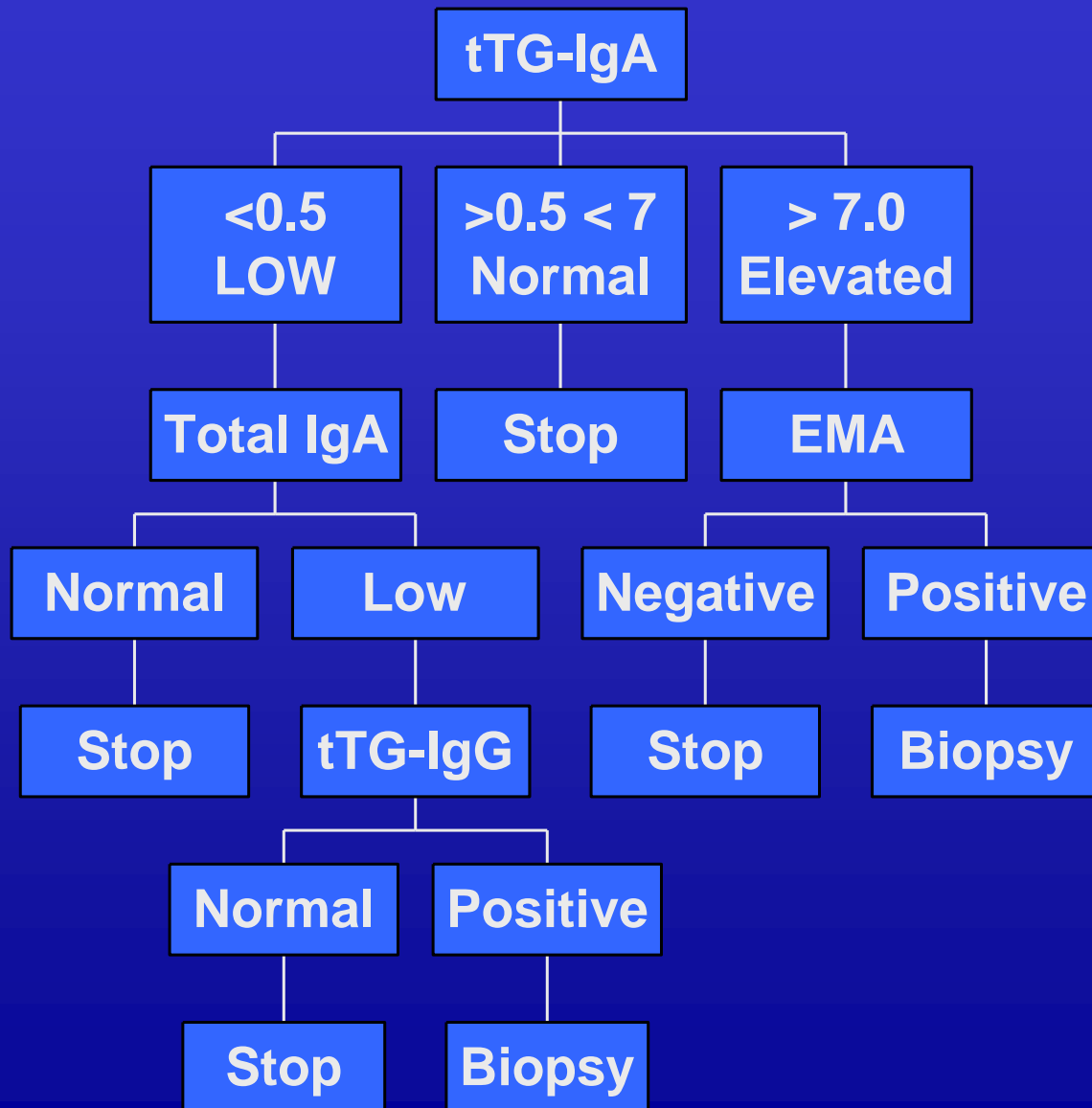


Ethnic background of study participants

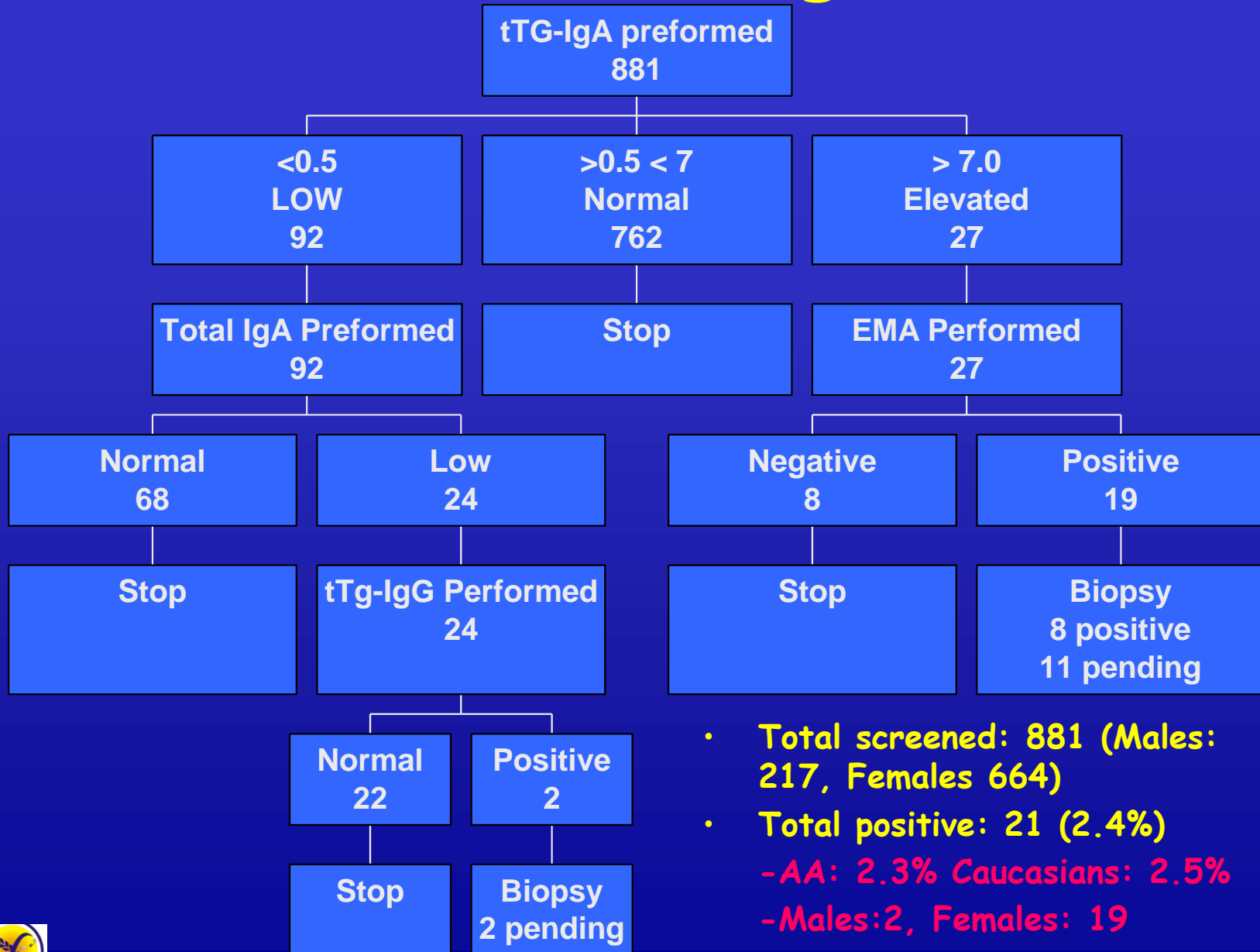
Race	Total (%)	Male (%)	Female(%)
African American	4.8	4.2	5.1
American Indian	1.2	1.4	1.3
Native Hawaiian	0.1	0	0.1
Asian	0.5	0	0.6
White	88.8	88.4	88.8
Hispanic or Latino	0.1	0	0.1
Unknown or Decline to answer	4.5	6.0	4.0



Celiac Screening Protocol



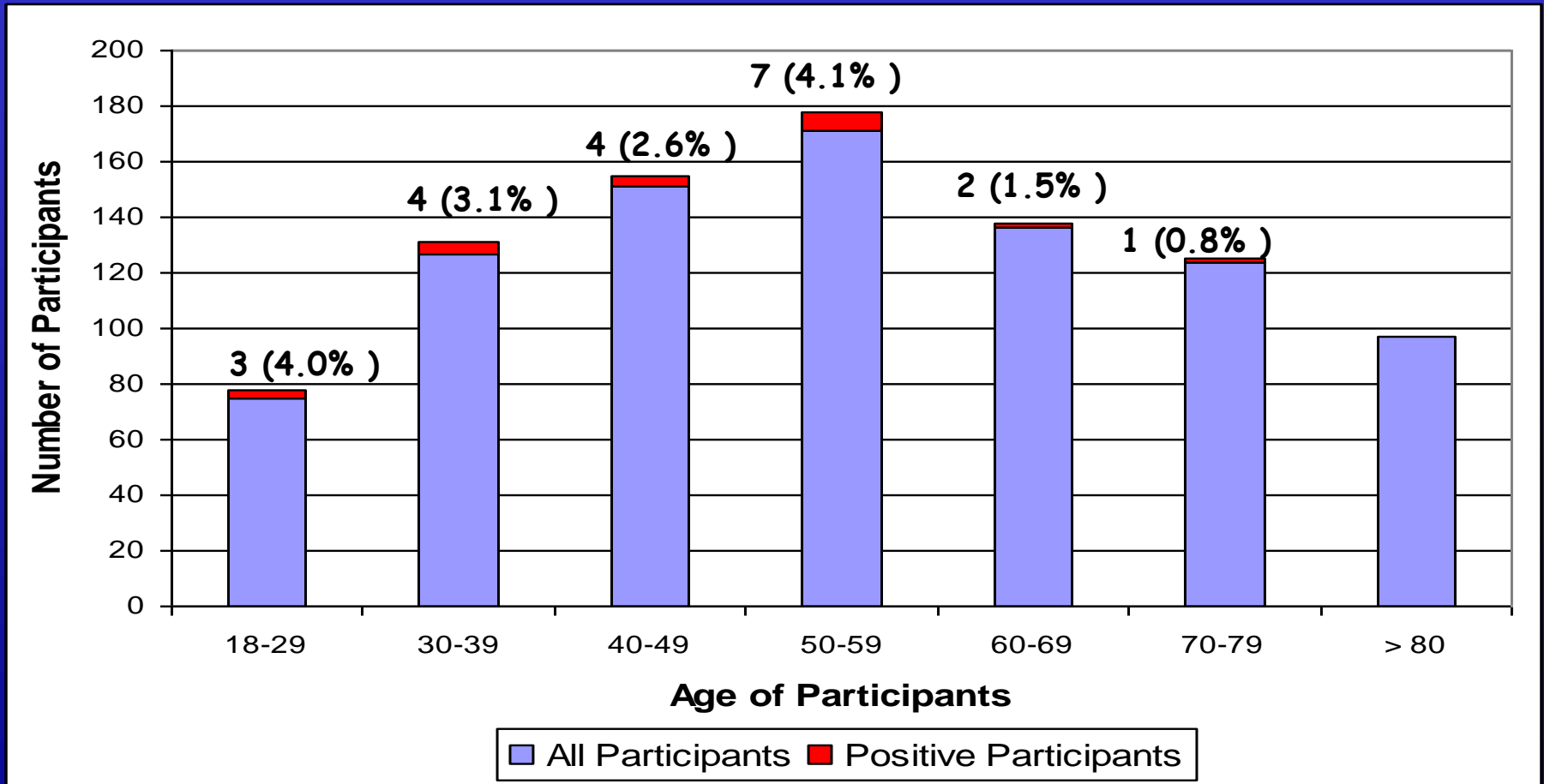
Celiac Screening Results



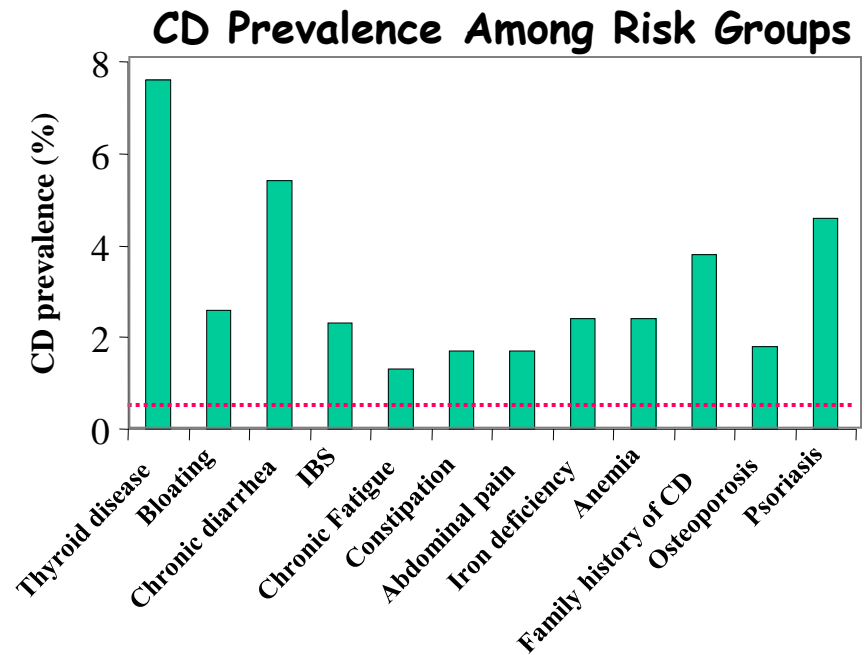
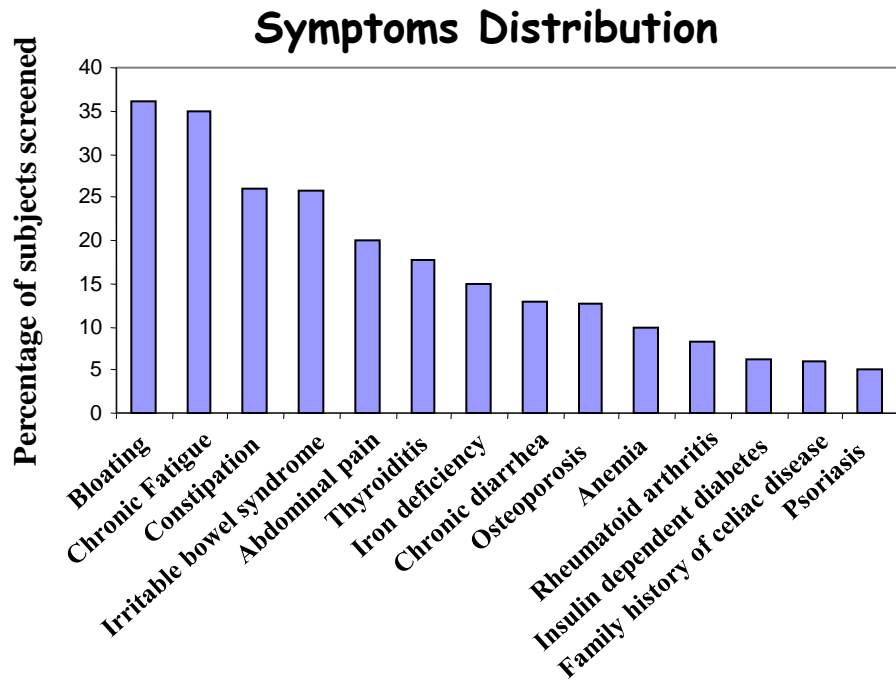
- Total screened: 881 (Males: 217, Females 664)
- Total positive: 21 (2.4%)
 - AA: 2.3% Caucasians: 2.5%
 - Males:2, Females: 19
- Female/male ratio: 3:1



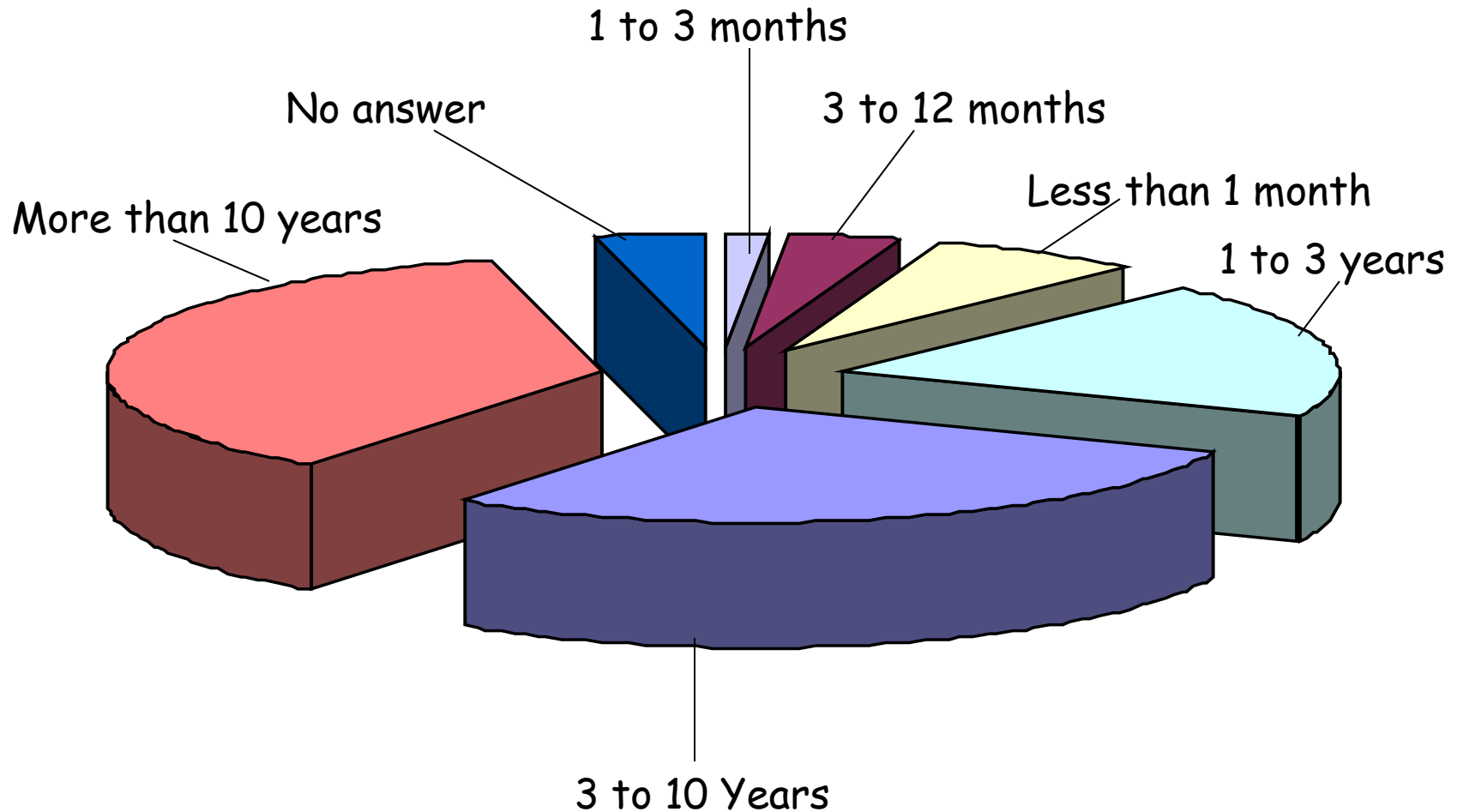
Age distribution of subjects screened and CD cases identified



Case Findings Project: Symptoms distribution and CD Prevalence

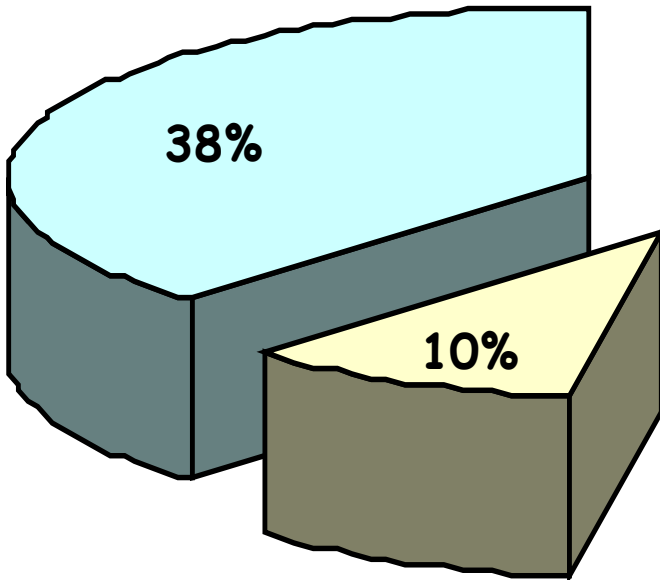


Duration of Symptoms and Diseases



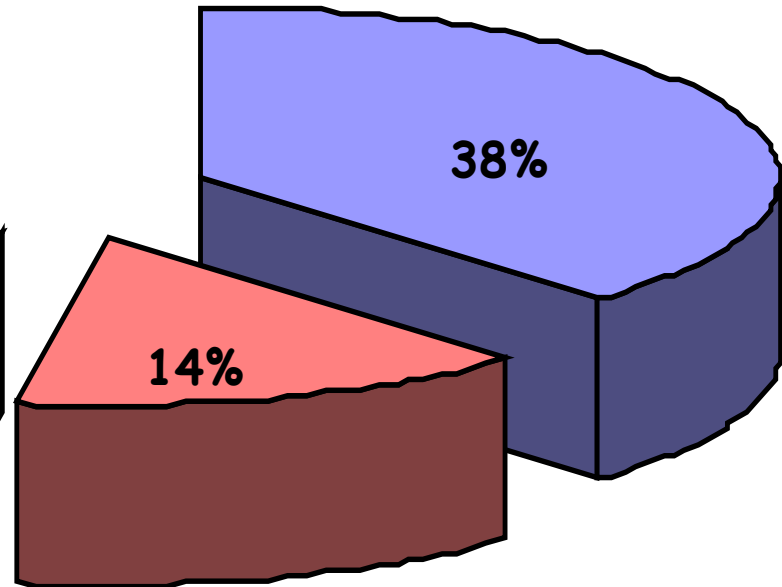
Intestinal Biopsy Results

Biopsy is Pending



Biopsy was Refused

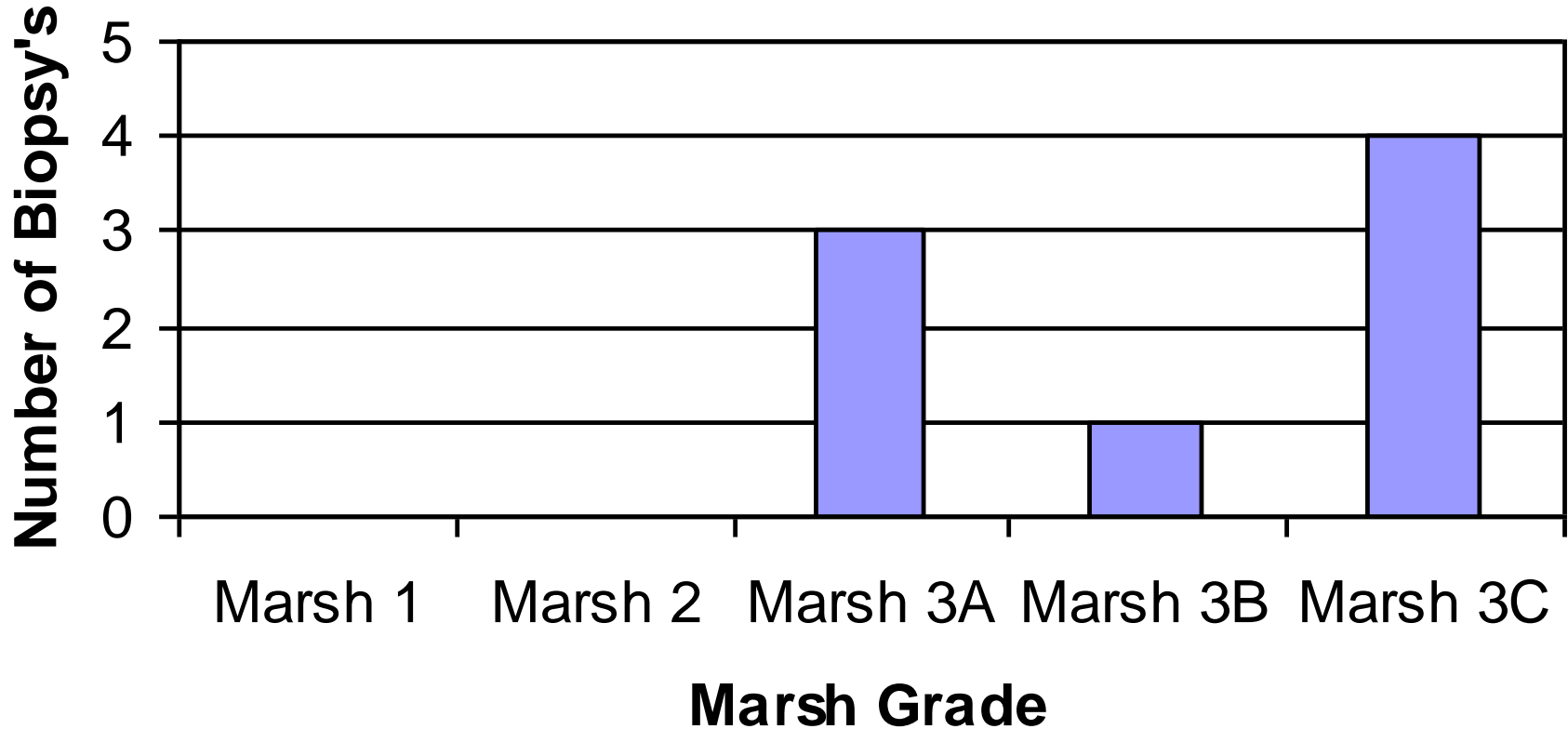
Biospied and Reviewed



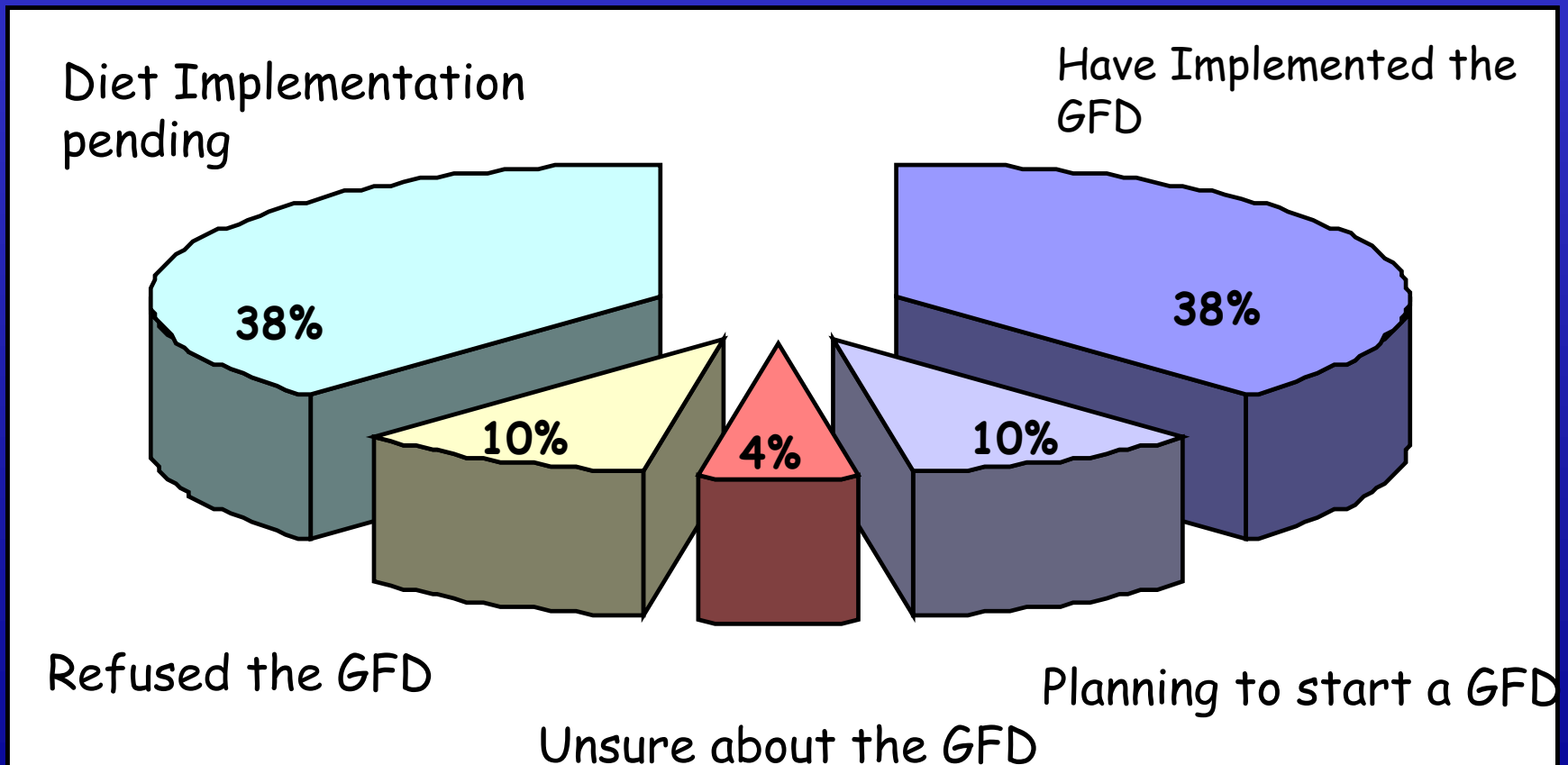
Biospied and Review is Pending



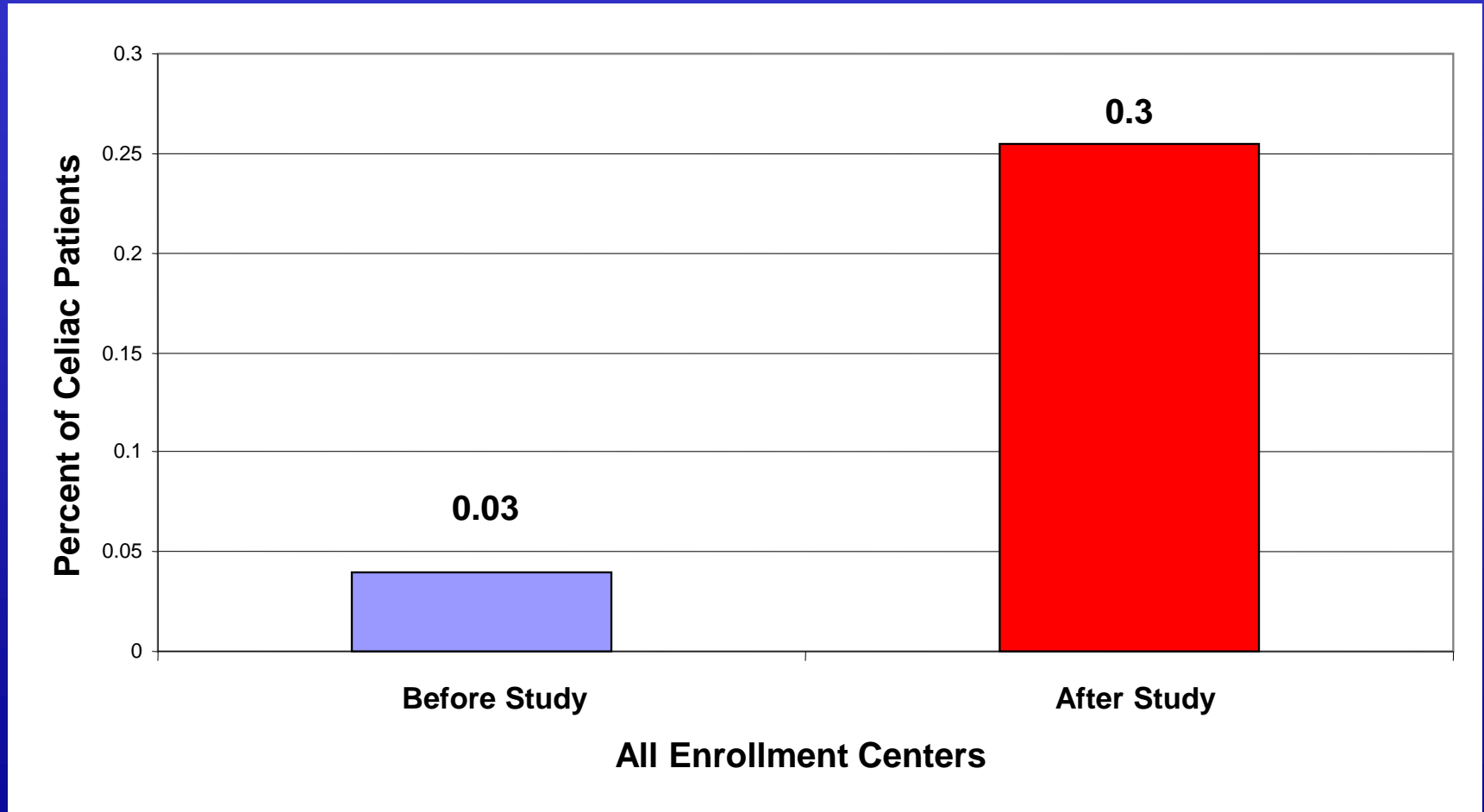
Biopsy Data: Marsh Grades



Percentage of subjects Implementing the Gluten Free Diet



Percentage of Celiac Disease Cases Diagnosed Before and After Case-Finding Implementation



Conclusions

- Serological testing of at-risk individuals increased the diagnostic rate of CD in the participating practices by 10 folds.
- Case-Finding may represent a very efficient way to increase quality of care and CD awareness in North America.

