

Study comparing Simtomax® to IgA/IgG tTG ELISA in a pediatric and adult population considered at high risk for celiac disease

Study Characteristics

Study Site:	University Hospital of Geneva (UHG), Geneva, Switzerland
Principal Investigators:	Dr. Michela G Schächpi
Dates:	The study was performed from April 2008 to December 2009
Type of Study:	Prospective
Sample Number:	112 children and adults
Type of Samples:	Serum

Study Design

Population:	Patients visiting the gastroenterology adult outpatient clinic and the gastroenterology consultation ward in the pediatric department of the UHG. Criteria for inclusion were clinical symptoms suggestive of celiac disease (CD) and/or first-degree relatives of CD patients (FDR, adult and pediatric, n=66) and CD confirmed patients on a gluten free diet (GFD, n=46).
Predicate:	IgA and IgG tissue Transglutaminase (tTG) ELISA (QuantaLite™, Inova Diagnostics); IgG tTG were used in case of total IgA deficiency (<0.05 g/l).

Results

Patients with CD symptoms and FDR

		IgA/IgG tTG ELISA	
		+	-
Simtomax DGP	+	8	4
	-	0	54

Prevalence of CD in the tested cohort	12.12%
Sensitivity	100.00%
Specificity	93.10%
LR+	14.5
LR-	0

Patients with known CD on GFD

		IgA/IgG tTG ELISA	
		+	-
Simtomax DGP	+	7	0
	-	4	35

Prevalence of CD in the tested cohort	NR
Sensitivity	64.00%
Specificity	100.00%
LR+	infinity
LR-	0.36

Publications / Oral Presentations/ Posters

Benkebil F, Combescure C, Anghel SI, Besson Duvanel C and Schächpi MG Diagnostic accuracy of a new point of care screening assay for celiac disease, International Celiac Disease Symposium, Chicago, USA, September 2013, poster

Benkebil F, Combescure C, Anghel SI, Besson Duvanel C and Schächpi MG Diagnostic accuracy of a new point of care screening assay for celiac disease, 2013, World Journal of Gastroenterology, 19(31): <http://www.ncbi.nlm.nih.gov/pubmed/23964145>