Study type	Cross-sectional data from cohort study							
Country	Argentina							
Number of patients	N=265 adults (223 female and 42 male) with a diagnosis of coeliac disease N=530 controls							
Quality	<ol> <li>Did the study have a clearly focused aim? Yes - 2 clear aims</li> <li>Was the cohort recruited in an acceptable way? No - not clear recruitment strategy</li> <li>Was the exposure accurately measured to minimise bias? No - questionnaire data highly biased</li> <li>Was the outcome accurately measured to minimise bias? Yes CD clearly defined</li> <li>Have the authors identified all important confounding factors? Have they taken account of confounding factors in the design/analysis? No - many important confounding factors, namely memory bias and personal recollection bias, no supporting info source</li> <li>Was the follow-up of subjects complete enough? Was the follow-up of subjects long enough? Na</li> <li>What are the results? CD group showed higher incidence rate of fracture</li> <li>How precise are the results? Precise - tight Cl</li> <li>Do you believe the results? No - questionnaire data nit appropriate way of addressing research aim</li> <li>Can the results be applied to the local population? Not clear</li> <li>Do the results fit with other available evidence? Yes</li> <li>What are the implications of this study for practice? Not clear</li> </ol>							
Study population	<ul> <li>Patients who attended gastroenterology units in four medical centres from March 2007 to November 2009</li> <li>Inclusion: diagnosis confirmed at least 5 years prior to entry into the study</li> <li>Exclusion: patients diagnosed with other disorders that could independently reduce bone health (ie. uncontrolled thyroid dysfunction, rheumatoid arthritis, inflammatory bowel disease, diabetes), who took medications that could affect bone metabolism (ie. steroids, calcium, vitamin D, alendronate, anticonvulsants, thyroid hormones, estrogen or androgen replacement) and who had complicated CD.</li> </ul>							
		Coeliac disease (N=265)	Control (N=530)	p value				
	Proportion female84% (223)84% (530)Not reported							
Median age (range)         42 (18-85)         43 (16-87)								
	Median age at diagnosis (range) 30 (1-80) -							

## Table 4: Evidence table –Sánchez et al. (2011)

	Mean BMI (kg/m <sup>2</sup> ) ±SE		22.5 ± 0.2	24.3 ±0.2	0.001			
	Median age at menarche (rar	nge)	13 (9-17)	12 (9-20)	Not reported			
	Median age at menopause (r	ange)	48 (30-54)	49 (36-59)				
Control	2 age and sex matched controls	(for each patient with CD) with functional gastrointestinal disorders (based on Rome III crite						
Length of follow- up	Person-years before diagnosis:	7028 (cases)	) vs 14532 (controls (	of cases 6480 were attributed to fe	males and 647 males)			
Details of coeliac testing	Based on combination of positive clinical findings (symptoms or risk factors such as family history), characteristic enteropathy at the tim of diagnosis, positive CD0speicifc serology and positive clinical and/or histological response to GFD; positive serological tests (antigliadin antibodies, anti-tissue transglutaminase antibodies and/or antimysium antibodies) were considered sufficient for a diagnosis of CD							
Results	Fracture rate before diagnosis:							
				Coeliac disease (N=265)	Control (N=530)			
	Proportion of patients with at least one fracture		cture	15.1% (40)	8.5% (45)			
	Median age at first fracture (range) (Asked by questionnaire of patients and confirmed in			10 (2-61)	15 (1-74)			
	Characteristics of patients with o	coeliac disea	Female	Male	p value			
			(N=223)	(N=42)				
	Median age (range)		42 (18-62)	35 (18-66)	0.04			
	Median age at diagnosis (ran	ge)	31 (1-80)	19 (1-52)	0.003			
	Mean BMI (kg/m <sup>2</sup> ) ±SE		$22.5 \pm 0.5$	23.7 ±0.6	0.01			
	Proportion with at least one find before diagnosis	racture	13% (29)	26% (11)	0.05			
	Median age at first fracture be diagnosis (range)	efore	14 (2-61)	10 (6-32)	0.04			
	Risk of fracture							
		Coeliac disease (N=265)	Control (N=530)	HR (95% CI) p value	Adjusted HR (95% CI)			
	All - incidence ratio	8.67	5.64	1.53 (1.05-2.14), p=0.01	1.78 (1.23-2.56)*, p=0.02			
		6.58	5.09	1.28 (0.87-1.88), p=NS	1.52 (0.99-2.32)*, p=0.052			

	Males – incidence ratio	29.35	10.20	2.67 (1.37 -5.22), p=0.004	2.63 (1.24-5.59)*, p=0.01		
	* adjusted by age at enrolment, age at diagnosis, BMI, smoking habits and menopause						
Source of funding	Partially from Asociacion para el estudio de las Enfermedades del Intestino						
Conflicts of interest	Not reported						
Comments	Authors included any events occuring during the first year after diagnosis of coeliac disease in the 'before diagnosis' category because coeliac disease is a long-term disease and GFD may only provide a slow recovery						

Definitions of abbreviations are given at the end of this document.