

Novita' in tema di prevenzione, diagnosi e trattamento della celiachia

Mauro Bruno



AiC Associazione Italiana Celiachia
Piemonte

CONGRESSO REGIONALE 2023 AIC PIEMONTE

*Pronti al futuro
con uno sguardo al passato*

 **1 APRILE 2023**

 **Cascina Fossata, via Ala di Stura 5, Torino**

Con il patrocinio di:

 **REGIONE PIEMONTE**  **TORINO METROPOLI**  **CITY OF TORINO**  **CAMERA DI COMMERCIO INDUSTRIA ARTIGIANATO E AGRICOLTURA DI TORINO**



20 Ottobre 2022, 22 Ottobre 2022 | Hilton Sorrento Palace,

10° Convegno Annuale AIC

**Dall'ICDS 2022 le novità scientifiche sulla
celiachia per la comunità scientifica
italiana, i pazienti e le famiglie**



ICDS2022SORRENTO



ICDS2022SORRENTO

19th INTERNATIONAL CELIAC DISEASE SYMPOSIUM

19th -22nd OCTOBER 2022 | HILTON SORRENTO PALACE

ORGANISING SECRETARIAT

MEETING&CONSULTING

Via M. Mercati, 33 - 00197 Rome, Italy
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ISSCD International Society for the Study of Celiac Disease

The International Society for the Study of Celiac Disease



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Valentina Discepolo
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Luigi Greco
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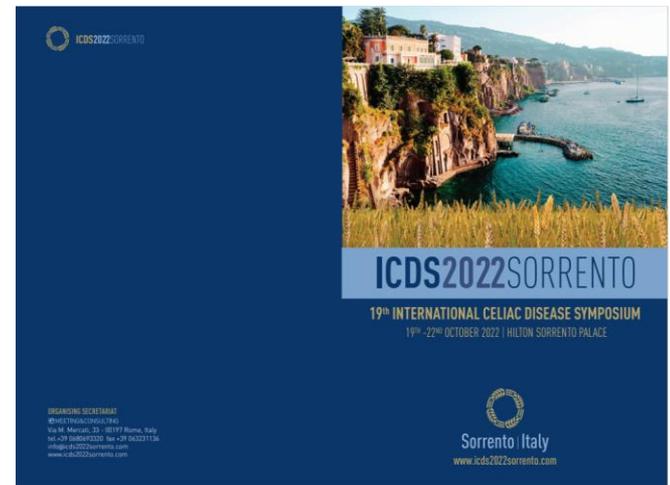
ICDS2022SORRENTO Faculty

Abadie Valerie	United States
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Auricchio Renata	Italy
Bai Julio Cesar	Argentina
Barone Maria Vittoria	Italy
Biagi Federico	Italy
Caio Giacomo Pietro Ismaele	Italy
Carroccio Antonio	Italy
Catassi Carlo	Italy
Cellier Christophe	France
Cerf-Bensussan Nadine	France
Ciacci Carolina	Italy
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Khosla Chaitan	United States
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Trott Nick	United Kingdom
Tye-Din Jason	Australia
Verdu Elena F.	Canada
Verma Ritu	United States
Volta Umberto	Italy
Zingone Fabiana	Italy

17 paesi



<https://convegnoscientificoaic.celiachia.it/10-convegno-annuale-aic.php>

<https://www.youtube.com/watch?v=3tThuBKLk0M>

Per facilitare le cose ho tradotto le diapositive



La dura realta' ...

Anticorpi per la diagnosi di
celiachia. Quale futuro ?



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Nuovi aspetti della diagnosi
istologica e future
prospettive

Kamran Rostami
Gastroenterology Unit, Palmerston North, New
Zealand

La dura realta' ...

- Fare diagnosi di celiachia non e' sempre facile
 - ✓ sintomi sono spesso assai sfumati

✓ Ilma Korponay-Szabo'



UniDebrece

Speranze deluse

- IgG-tTG aumenteranno la capacita' diagnostica
- gli anti-gliadina deamidata aiuteranno nella diagnosi
- i test automatizzati miglioreranno la resa diagnostica
- i test automatizzati renderanno non piu' necessario il giudizio clinico



La dura realta' ...

- Fare diagnosi di celiachia non e' sempre facile
 - ✓ sintomi sono spesso assai sfumati
 - ✓ gli anticorpi (transglutaminasi ed endomisio non sono strumenti perfetti)
 - ✓ il 5% dei celiaci NON ha anticorpi
 - ✓ leggere ed interpretare correttamente la biopsia non e' facile

... i ritardi diagnostici

La dura realta' ...

- Fare diagnosi di celiachia non e' sempre facile ...ritardi

autore	anno	stato	n° pti	mediana o media (anni)
Gregory	1983	UK	40	mediana 7
Corazza	1996	Italia	419	media 8-12.9
Corrao	2001	Italia	1072	mediana 1.4
<u>Gasbarrini</u>	2001	Italia	1353	media 14-17
<u>Nostrom</u>	2011	Svezia	1031	mediana 4
<u>Pulido</u>	2013	Canada	5912	media 12.6
Fuchs	2014	Finlandia	825	> 10 aa in 32%
<u>Paez</u>	2017	USA	101	mediana 0.2-3.5
Fuchs	2018	Finlandia	611	mediana 3
Tan	2021	Paesi Bassi	211	> 3 in 33%
Mansueto	2021	Italia	369	media 9
Zingone	2021	Italia	110	mediana 1.4-1.7
Lenti	2023	Italia	2362	mediana 0.7





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Verso un unico protocollo di diagnosi per bambini ed adulti

Dr Fabiana Zingone, MD PhD

Department of Surgery, Oncology and Gastroenterology
University of Padua

fabiana.zingone@unipd.it





European Society for Pediatric Gastroenterology, Hepatology, and Nutrition Guidelines for the Diagnosis of Coeliac Disease

¹S. Husby, ¹S. Koletzko, ¹I.R. Korponay-Szabó, ⁵M.L. Mearin, ¹¹A. Phillips, ^{*}R. Shamir,
⁸R. Troncone, ^{**}K. Giersiepen, ¹¹D. Branski, ¹¹C. Catassi, ⁵⁵M. Leigeman, ¹¹¹M. Mäki,
^{**}C. Ribes-Koninckx, ⁸⁸⁸A. Ventura, and ^{****}K.P. Zimmer, for the ESPGHAN Working Group on
Coeliac Disease Diagnosis, on behalf of the ESPGHAN Gastroenterology Committee

JPGN · 2012



Requisiti:

- ✓ sintomi
- ✓ tTG-IgA (x 10)
- ✓ EMA (su secondo prelievo)
- ✓ HLA DQ2 o DQ8



2012

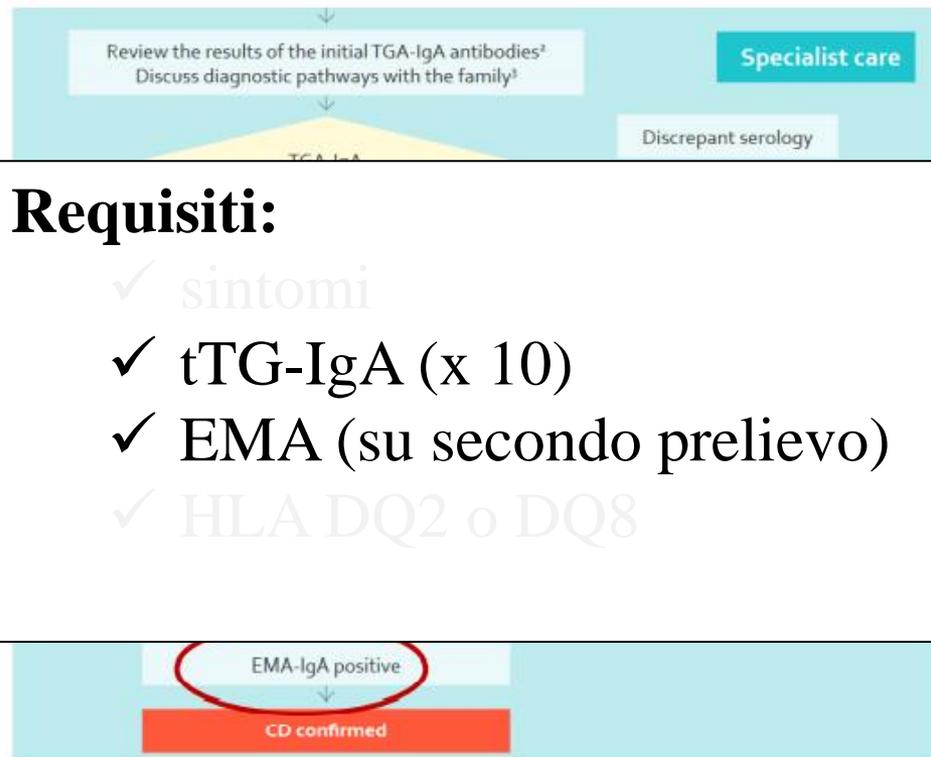




Guidelines for diagnosing coeliac disease: European Society Paediatric Gastroenterology, Hepatology and Nutrition

Sarah Berry¹, Naomi McMahon,² Jonathan Henderson¹

Arch Dis Child Educ Pract Ed 2021;



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2021



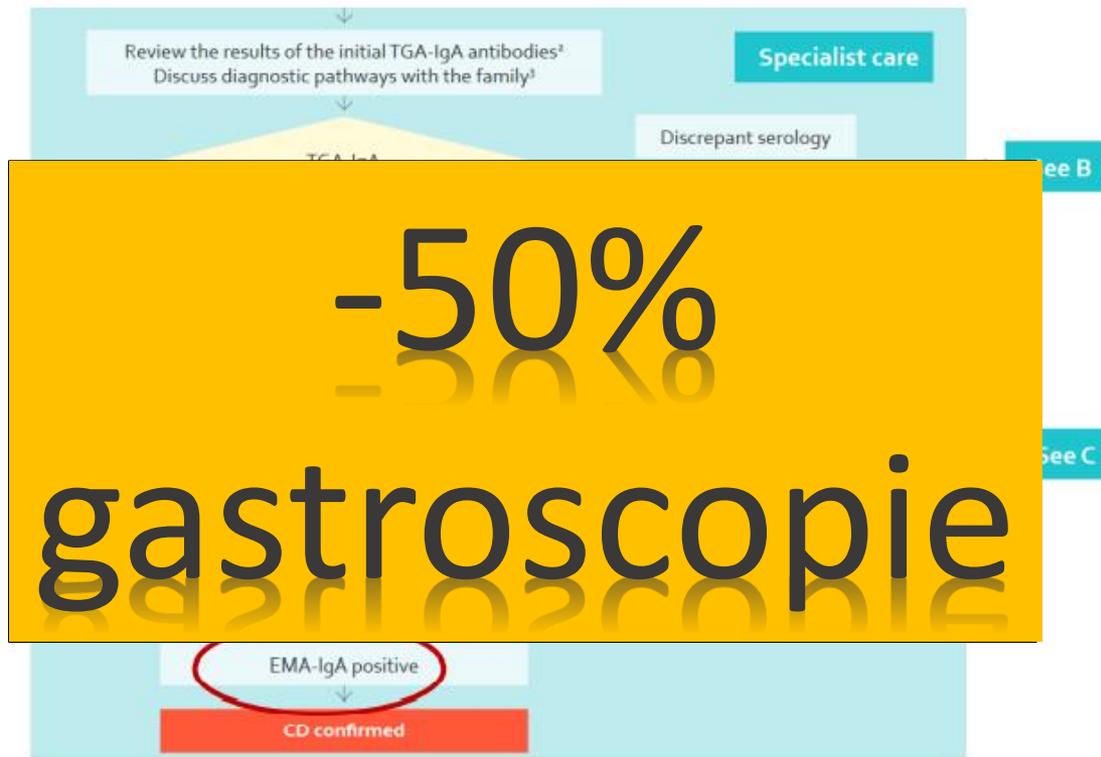


Guidelines for diagnosing coeliac disease: European Society Paediatric Gastroenterology, Hepatology and Nutrition

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2021





Siamo pronti per lo stesso
protocollo negli adulti ?



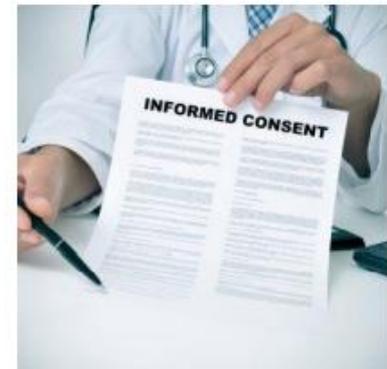
Pro e contro della strategia negli adulti ...





PRO

- EGD costosa ed invasiva
- mal tollerata da alcuni pazienti
- rischi (bassi ma presenti): sedazione, sanguinamento, perforazione
- protocollo di diagnosi senza biopsia già in uso...





PRO

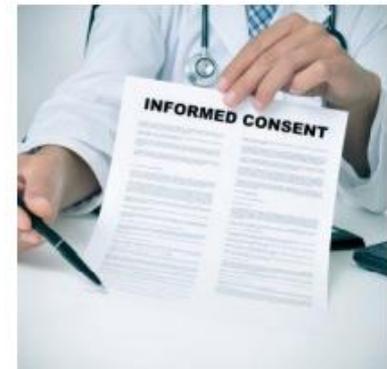
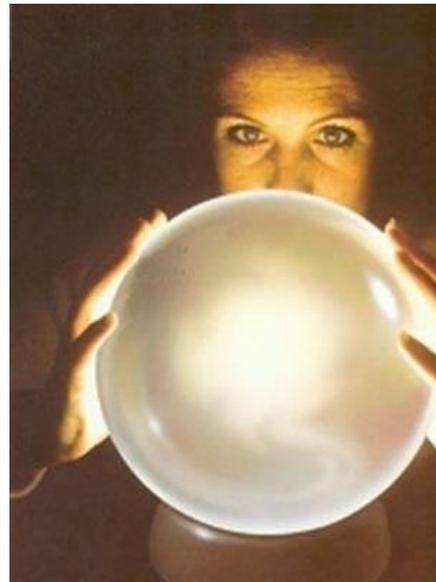
- EGD costosa ed invasiva
- mal tollerata da alcuni pazienti
- rischi (bassi ma presenti): sedazione, sanguinamento, perforazione
- gia' in uso...





CONTRO

- gli esami di laboratorio possono non bastare in alcune categorie di pazienti (deficit di IgA, immunodepressi, cel. sieronegativi...)
- manca la fotografia della situazione "al punto zero" in caso di non risposta alla dieta
- rischio di perdere patologie rilevanti



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Diabete di tipo I e celiachia

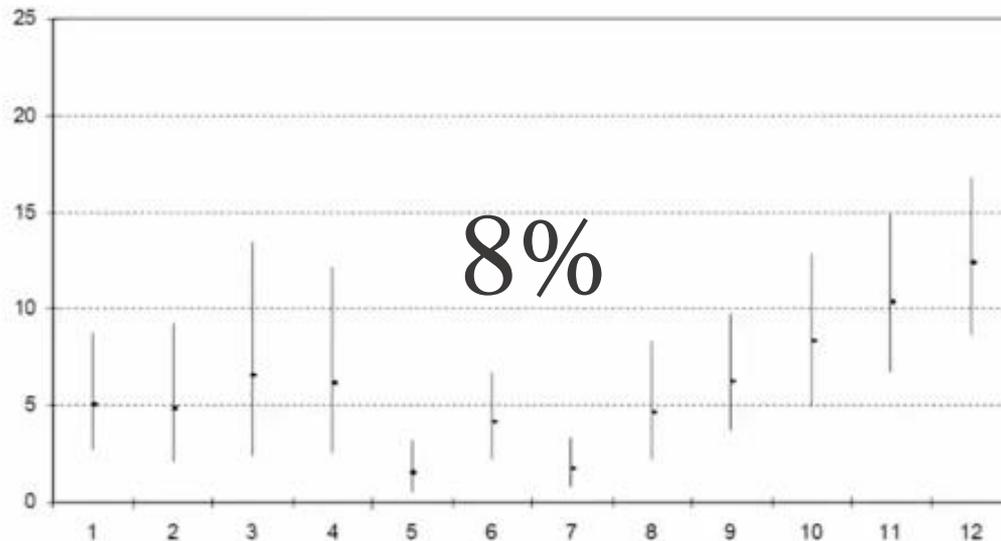
Steffen Husby

Hans Christian Andersen Children's Hospital

Odense University Hospital

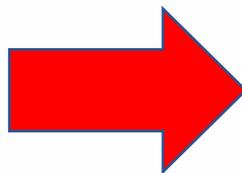
Denmark

Celiachia tra diabetici di tipo I



- 1 Canada, 1998
- 2 UK, 1998
- 3 Spain, 1998
- 4 Sweden, 1999
- 5 Austria, 2000
- 6 Czechia, 2000
- 7 Germany, 2000
- 8 USA, 2001
- 9 Italy, 2002
- 10 Libya, 2003
- 11 Hungary, 2003
- 12 Denmark, 2006

Diabete tipo I



Celiachia

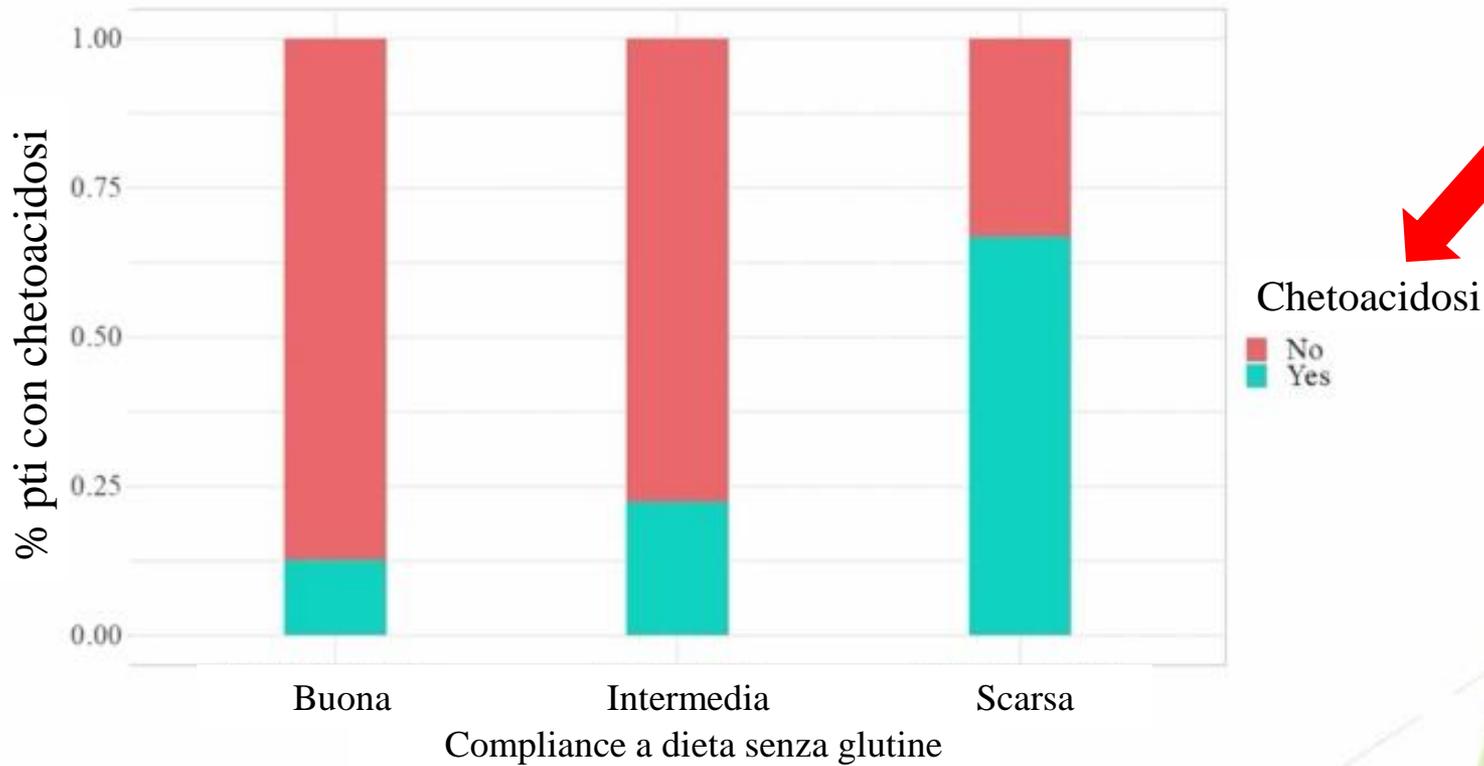
Celiachia



Diabete tipo I

Solo il 15% di coloro che hanno entrambe le patologie ha avuto la celiachia come prima manifestazione

Effetto della dieta senza glutine



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Celiachia e osso

Julio C. Bai, MD

Consultant

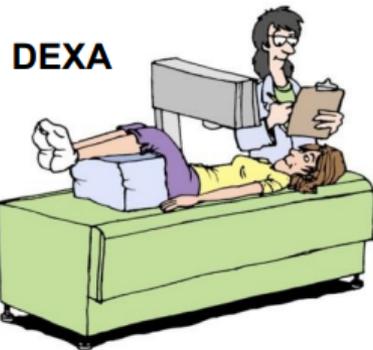
“Dr. C. Bonorino Udaondo” Gastroenterology Hospital

Professor Emeritus
Research Institute
Universidad del Salvador

Buenos Aires. Argentina



Osteopenia ed osteoporosi alla densitometria



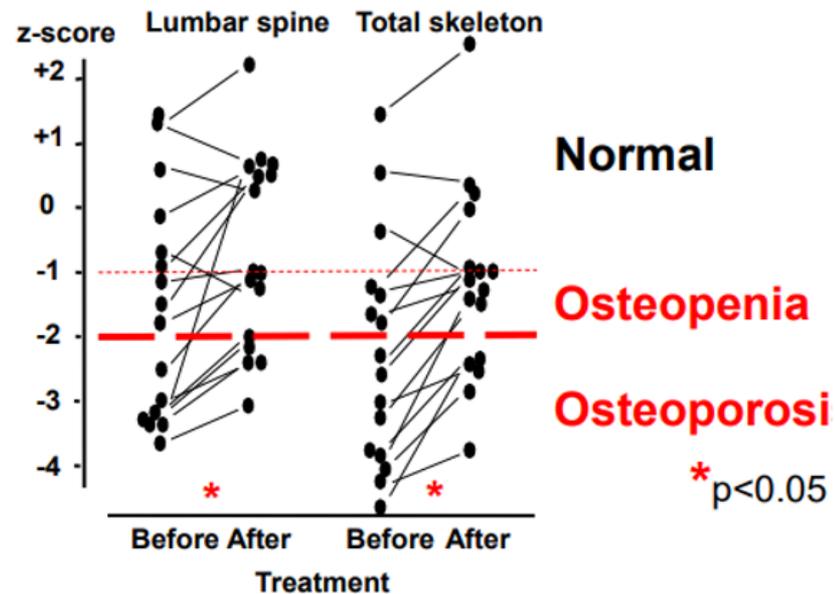
	Osteopenia	Osteoporosi
	%	%
Celiachia non trattata	40 - 50	1.7 - 45
Celiaci a dieta	30 - 50	20 - 30
Asintomatici	30	25

Caraceni, et al, AJG 1998; Molteni, et al. AJG 1990; Bodé, et al. Gut 1991; Mora et al. AJCN 1993; Mazure et al. AJG 1994; Gonzalez, et al. Bone 1995



Effetto della dieta senza glutine

esordio e dopo 1 anno di dsg

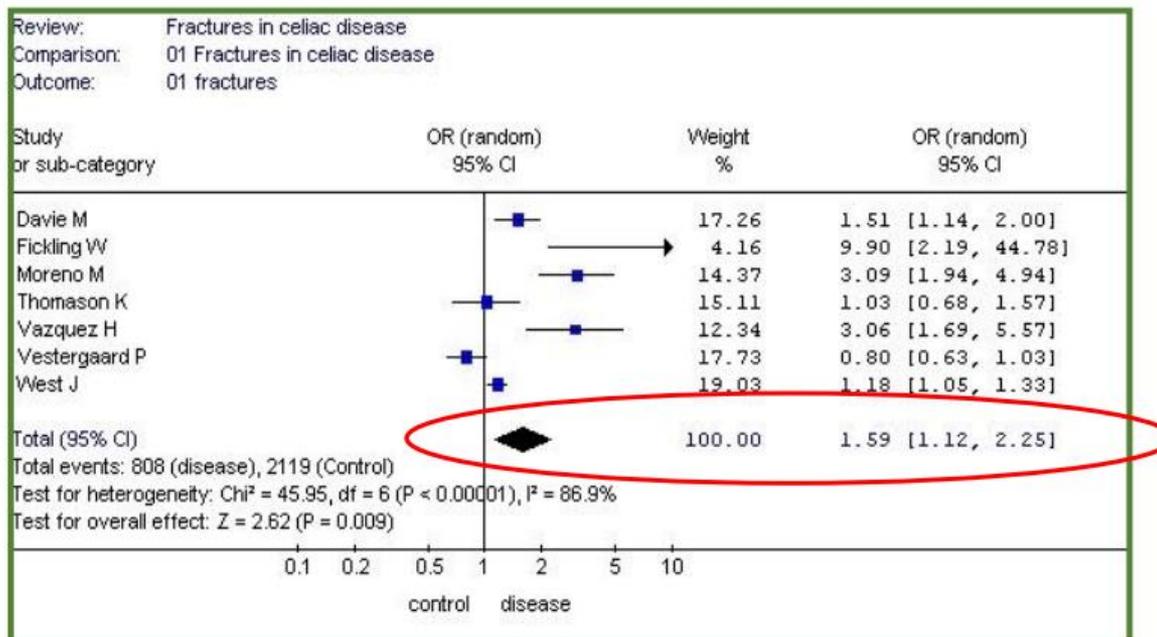


2

Mautalen C et al. AJG 1997
Bai JC et al. APT 2007



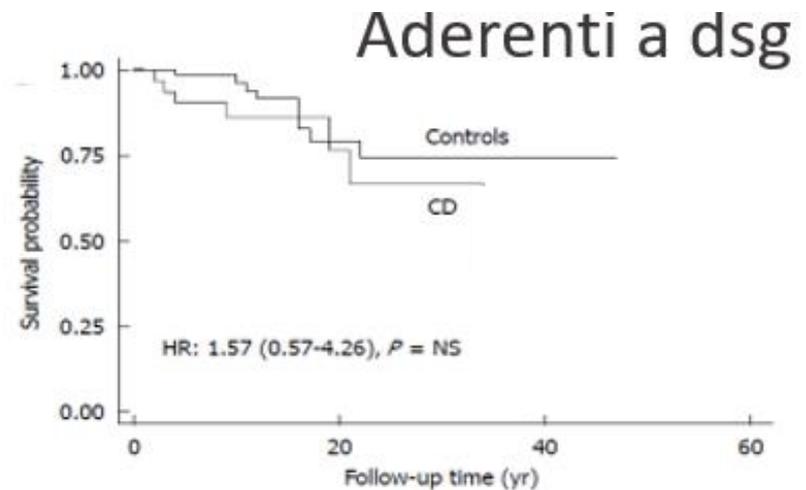
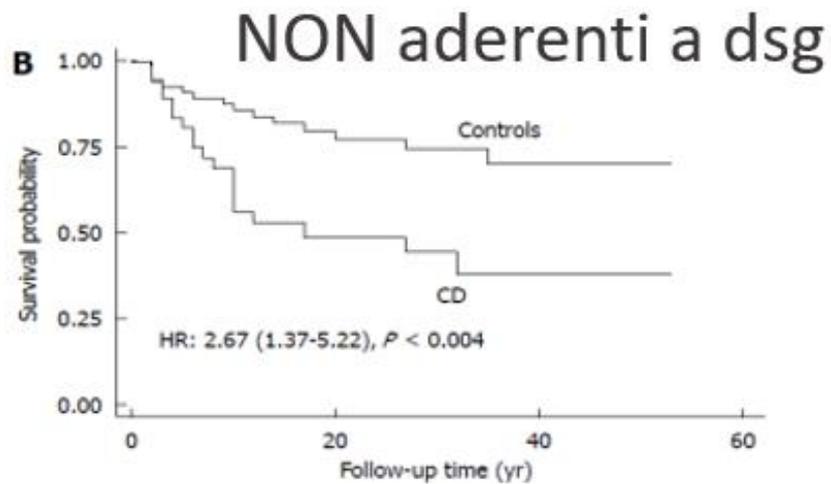
Il rischio di fratture alla diagnosi...



Rischio di fratture +60-100%

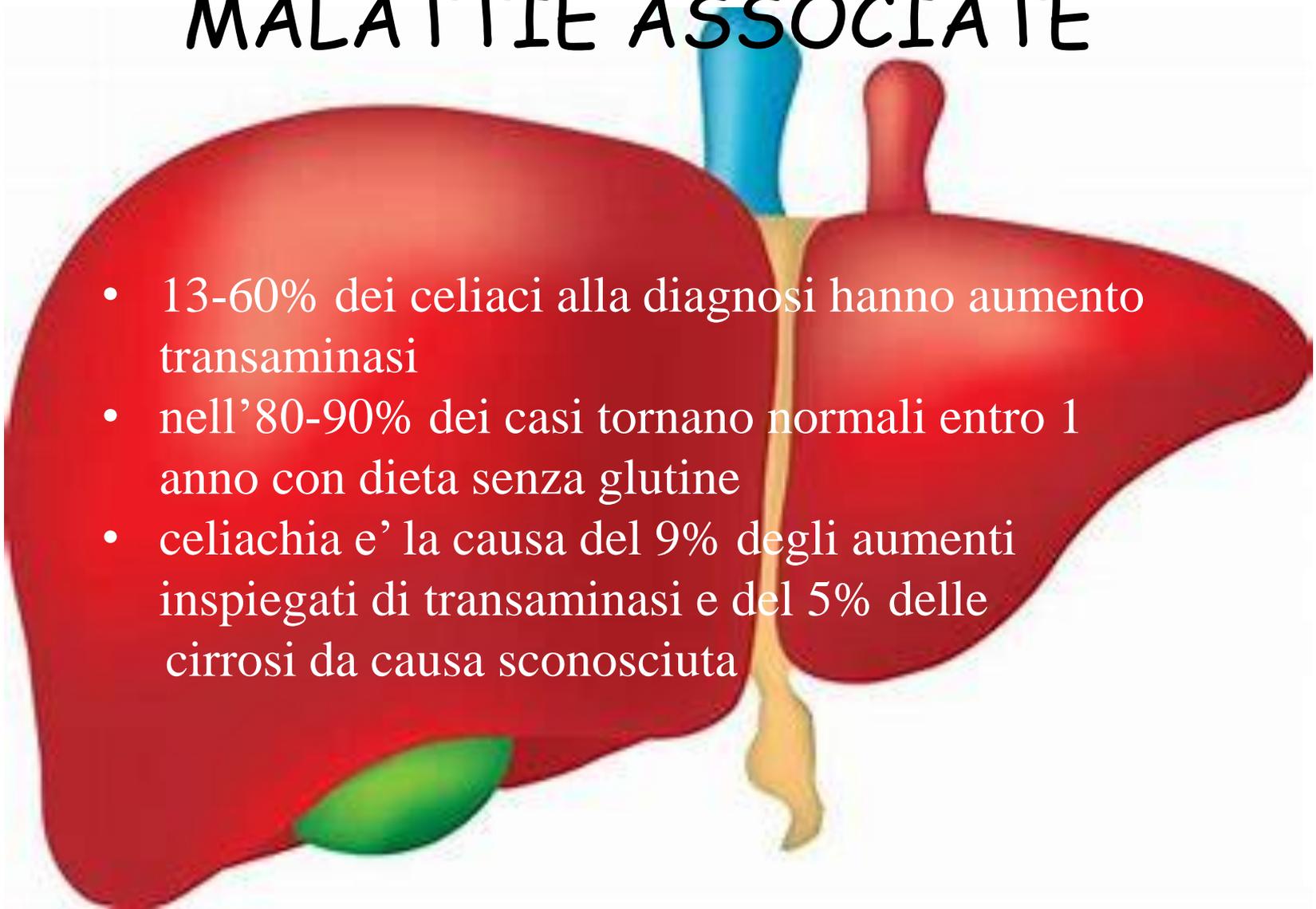


Rischio fratture e dieta senza glutine



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- 13-60% dei celiaci alla diagnosi hanno aumento transaminasi
- nell'80-90% dei casi tornano normali entro 1 anno con dieta senza glutine
- celiachia e' la causa del 9% degli aumenti inspiegati di transaminasi e del 5% delle cirrosi da causa sconosciuta



- 
- An anatomical illustration of the human liver and gallbladder. The liver is shown in a reddish-brown color, with its characteristic lobulated surface. The gallbladder is a small, pear-shaped sac located beneath the right lobe of the liver, colored in a bright green. The biliary system, including the common bile duct, is shown in a yellowish-tan color. The hepatic portal vein is depicted in blue, and the hepatic artery is shown in red. The illustration is set against a plain white background.
- in qualche caso le transaminasi sono normali alla diagnosi ma poi aumentano ...

- **QUELLO CHE NON E' ANCORA CHIARO:**
i celiaci con transaminasi normali hanno un maggior rischio di steatosi ?

Prossimamente uno studio ...

c/o Gastroenterologia Molinette e Regina Margherita

- Adulti e bambini
- Questionario alimentare
- Esami ematochimici
- Fibroscan (elastografia epatica)



PROSPETTIVE TERAPEUTICHE

FRIDAY, OCTOBER 21

SALA NETTUNO

15.00-16.15

SESSION 7

PREVENTION & TREATMENT

Chairs: R. Shamir (Israel), E.F. Verdu (Canada)

- 15.00 **Future treatments: state of the art**
C. Khosla (United States)
- 15.18 **Potential future treatments alternative to the gluten-free diet: patients expectations**
S. Neuhold (Italy)
- 15.38 **Which lessons from prospective cohorts**
A. Fasano (United States)
- 15.54 **Gene editing for wheat detoxification**
M.J.M.R.. Smulders (The Netherlands)

SATURDAY, OCTOBER 22

AUDITORIUM SIRENE

09.00-10.30

SESSION 7

NEW TREATMENTS

Chairs: M.Mäki (Finland), R. Anderson (Australia)

- 09.00 **Animal models to test new treatments**
V. Abadie (United States)
- 09.20 **TG2 Inhibition**
C. Khosla (United States)
- 09.30 **Enzyme therapy**
J.A. Syage (United States)
- 09.40 **An experimental anti-IL15 antibody for the treatment of non responsive celiac disease**
D.A. Jacobstein (United States)
- 09.50 **Interim results from an in-human study of an anti-IL-15 antibody for treating celiac disease**
J.G.A. Houbiers (The Netherlands)
- 10.00 **Immune tolerance (nanoparticles and other technologies)**
C.P. Kelly (United States)
- 10.10 **Discussion**

PROSPETTIVE TERAPEUTICHE

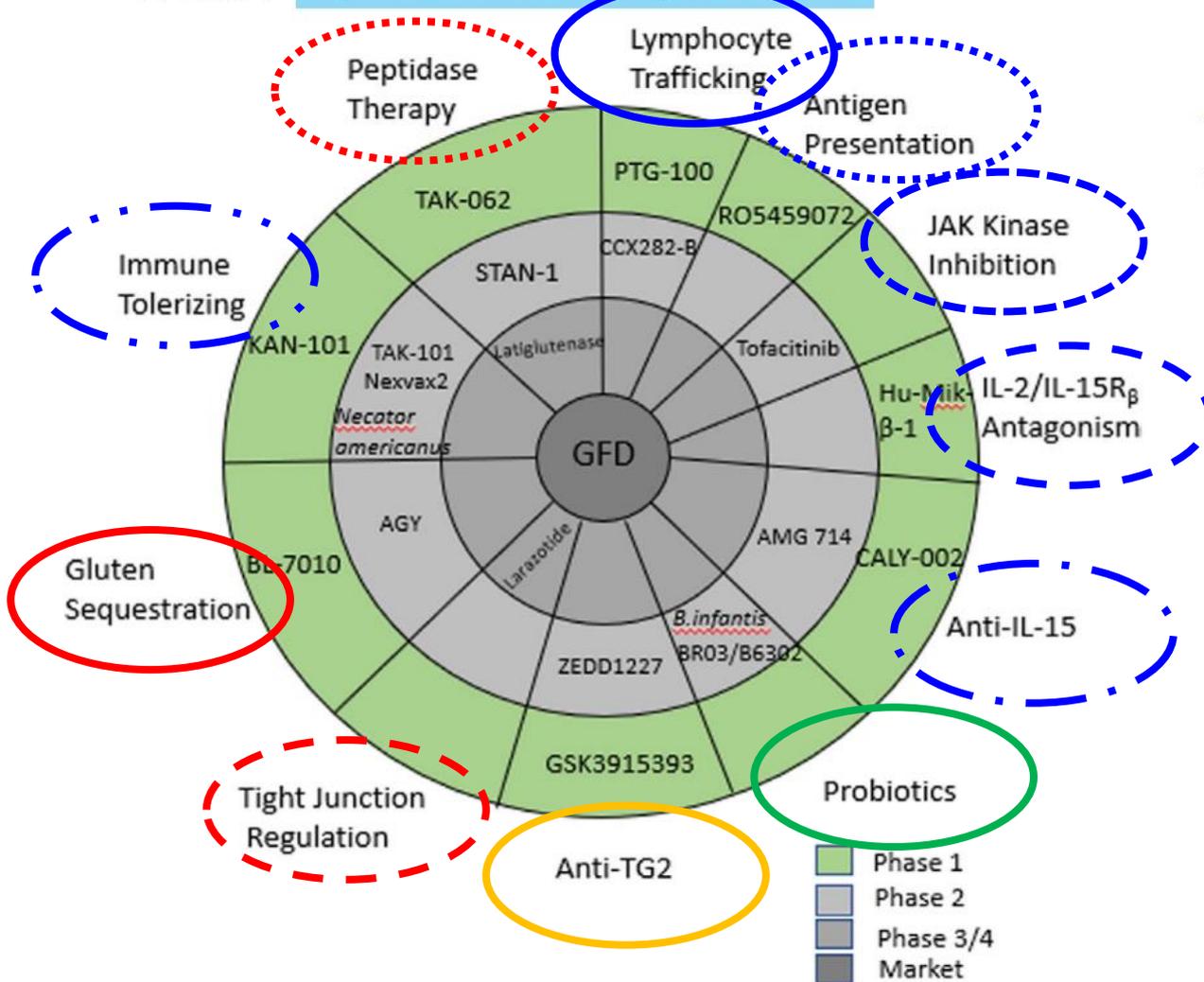


FIGURE 2 Compounds currently in development for celiac disease. Abbreviations: GFD, gluten-free diet; IL, interleukin; JAK, Janus kinase; TG, transglutaminase

PROSPETTIVE TERAPEUTICHE

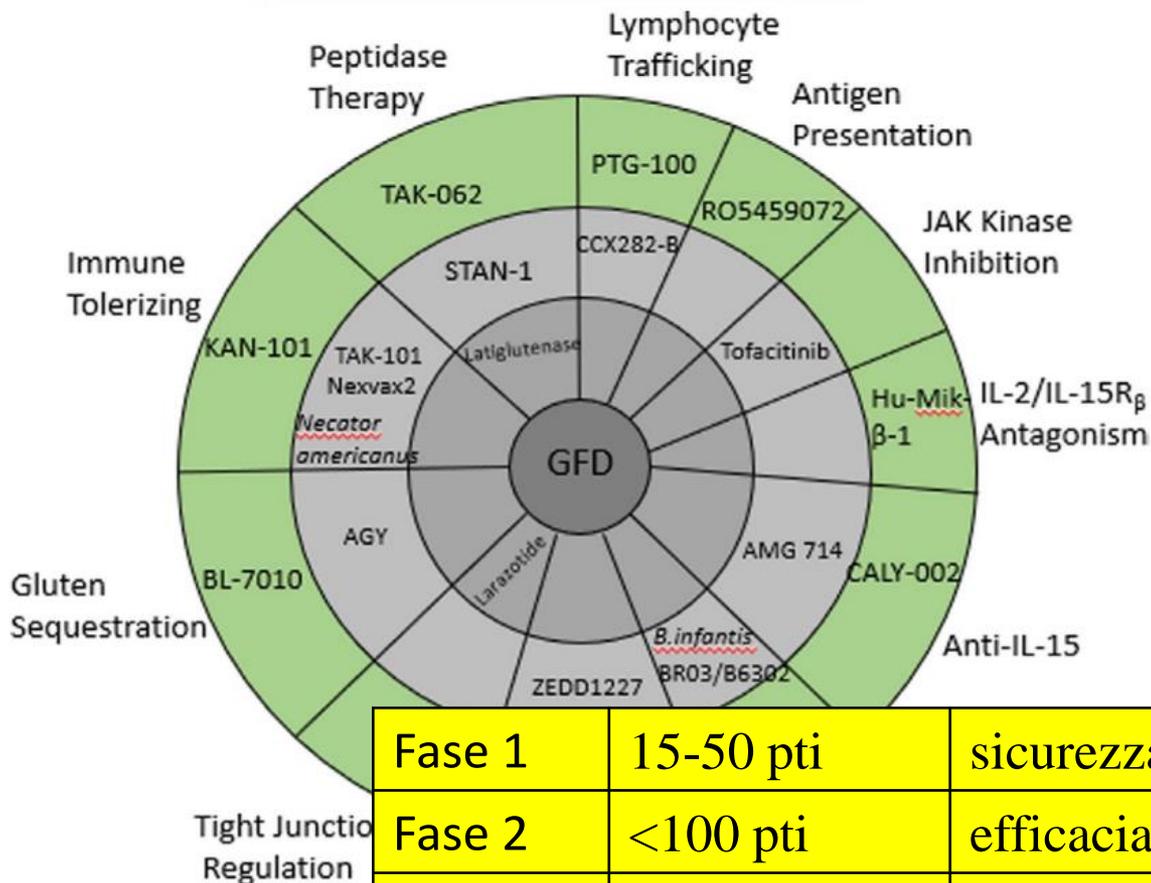


FIGURE 2 Compounds currently in development for celiac disease. Abbreviations: GFD, gluten-free diet; IL, interleukin; JAK, Janus kinase; TG, transglutaminase

Fase 1	15-50 pti	sicurezza e dose appropriata
Fase 2	<100 pti	efficacia ed effetti collaterali
Fase 3/4	100-1000 pti	efficacia, effetti collaterali e confronto con terapie esistenti

17-APR-2005

la Repubblica

Quotidiano Roma

Direttore: Ezio Mauro

Lettori Audipress 2852000

da pag. 18

Firenze, al congresso mondiale sulla malattia annuncio di studiosi italiani: "Forse entro un anno sul mercato"

Celiachia, una pillola per sperare pane e pasta tornano nel menu



L'ANNUNCIO
"Una pillola anti-
celiachia": è
l'annuncio che
accende la
speranza

PROSPETTIVE TERAPEUTICHE

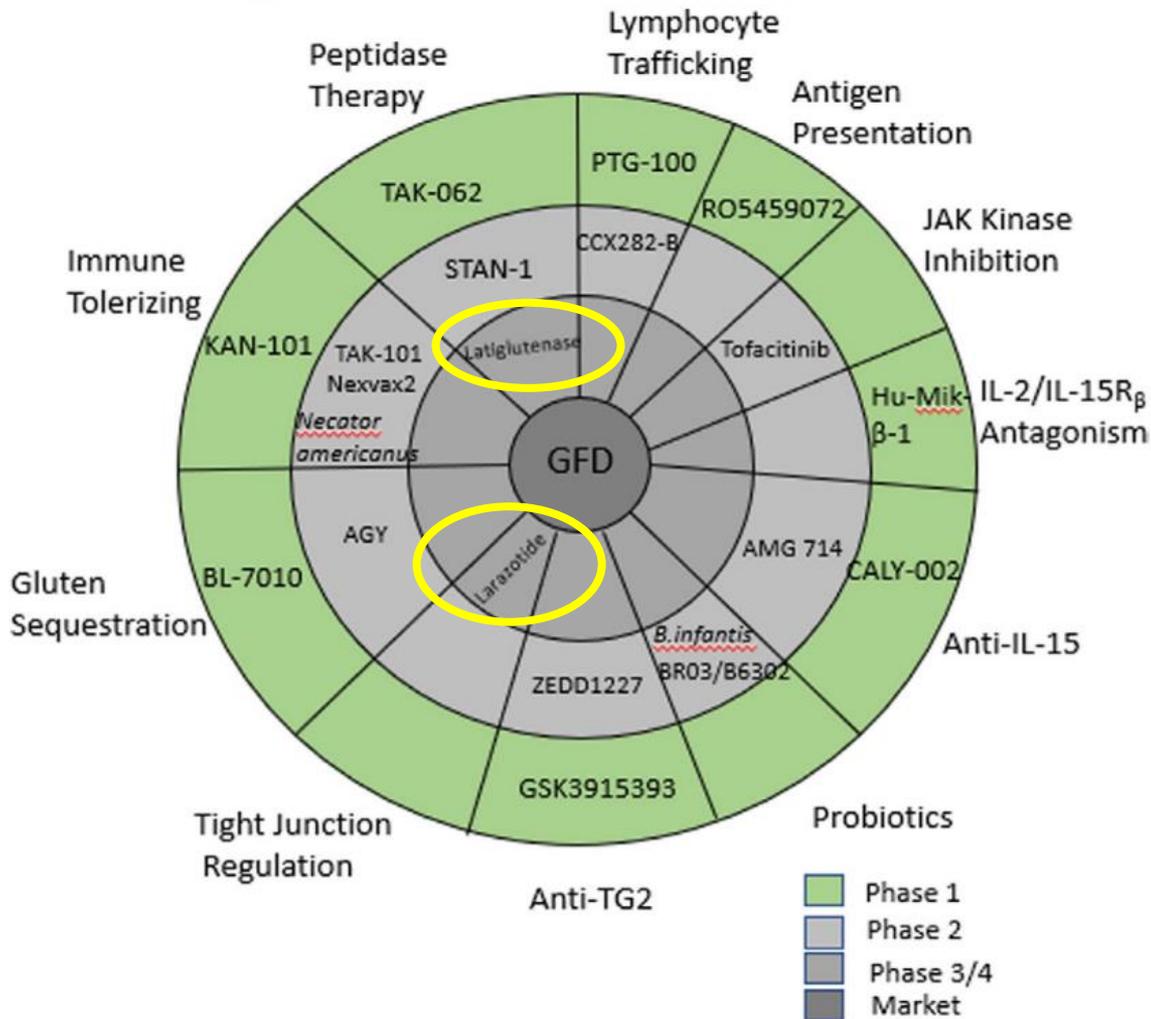


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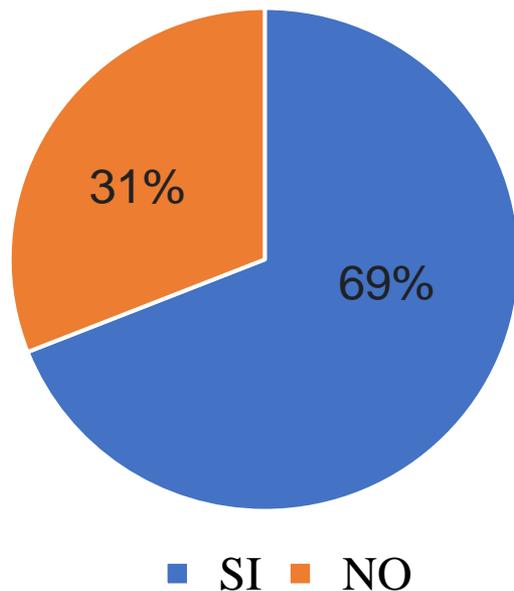


Potential future treatments alternative to the gluten-free diet: patients' expectations

S. Neuhold – Food Dept. Manager

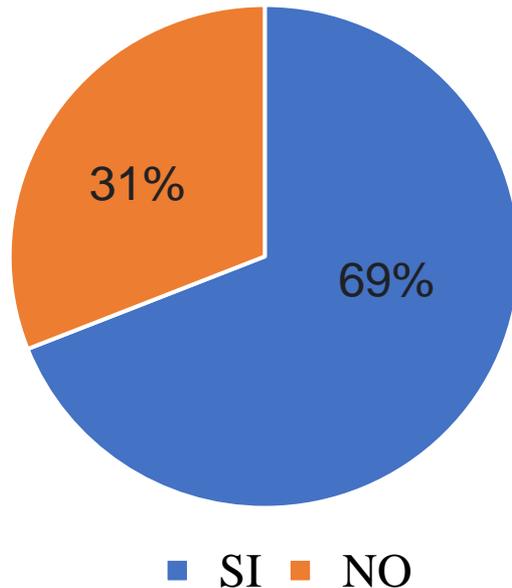
7808 soggetti celiaci

Sei soddisfatto della dieta senza glutine ?

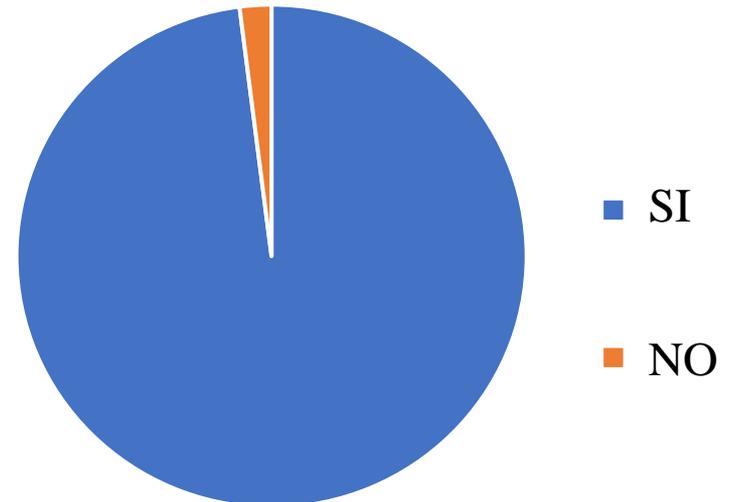


7808 soggetti celiaci

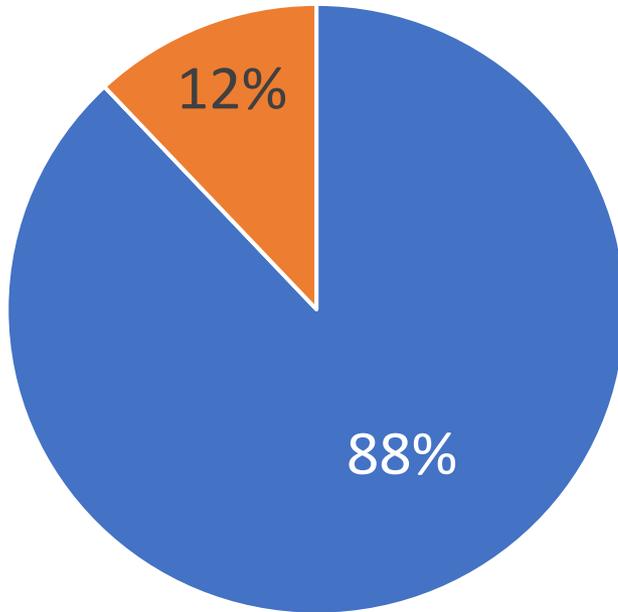
Sei soddisfatto della dieta senza glutine ?



Se ci fossero alternative alla dieta le prenderesti in considerazione?

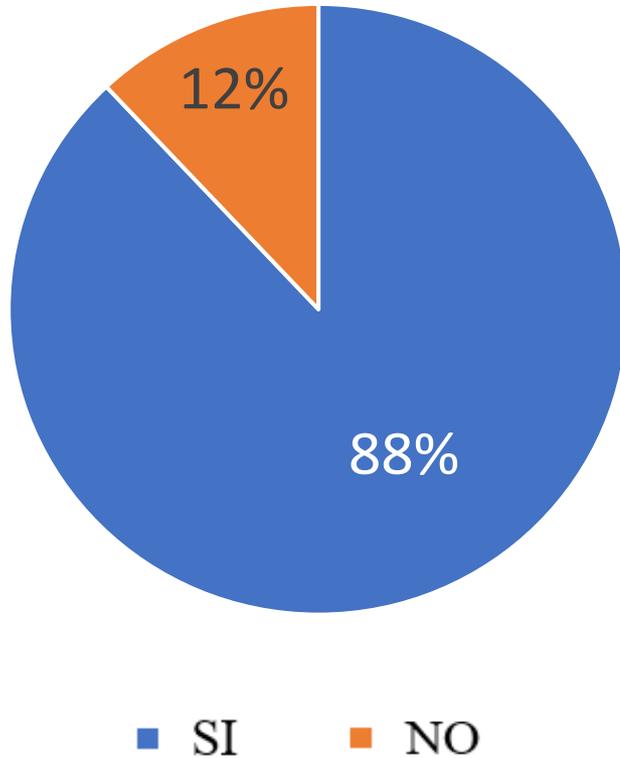


Se ci fosse un vaccino in grado di risolvere definitivamente il problema dell'intolleranza al glutine, lo faresti?

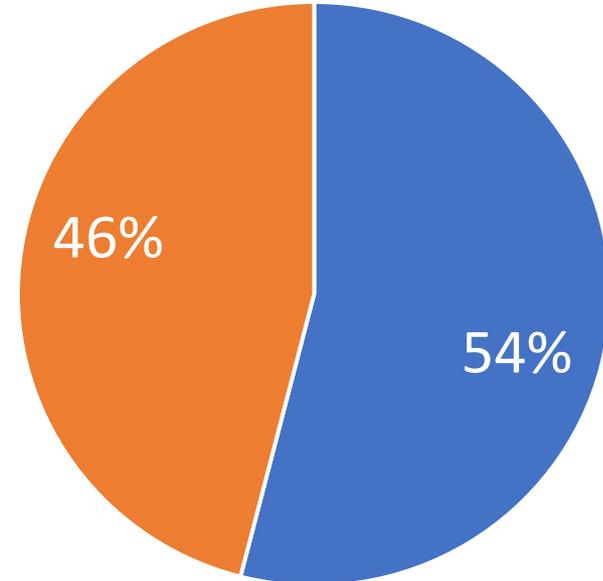


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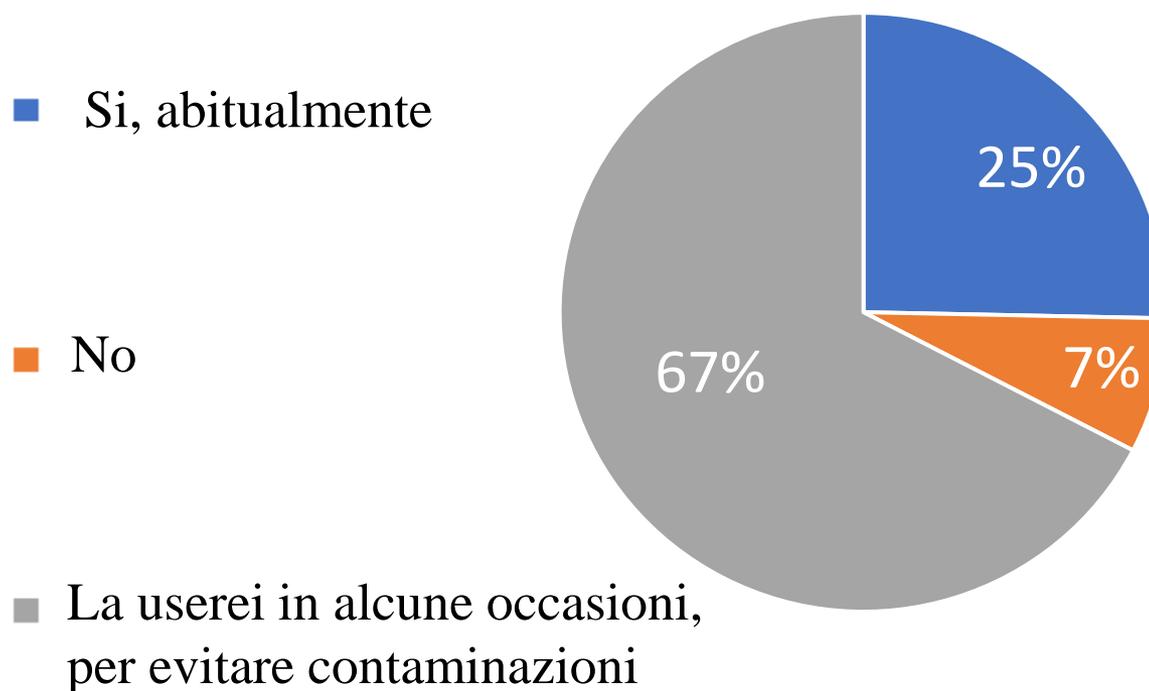
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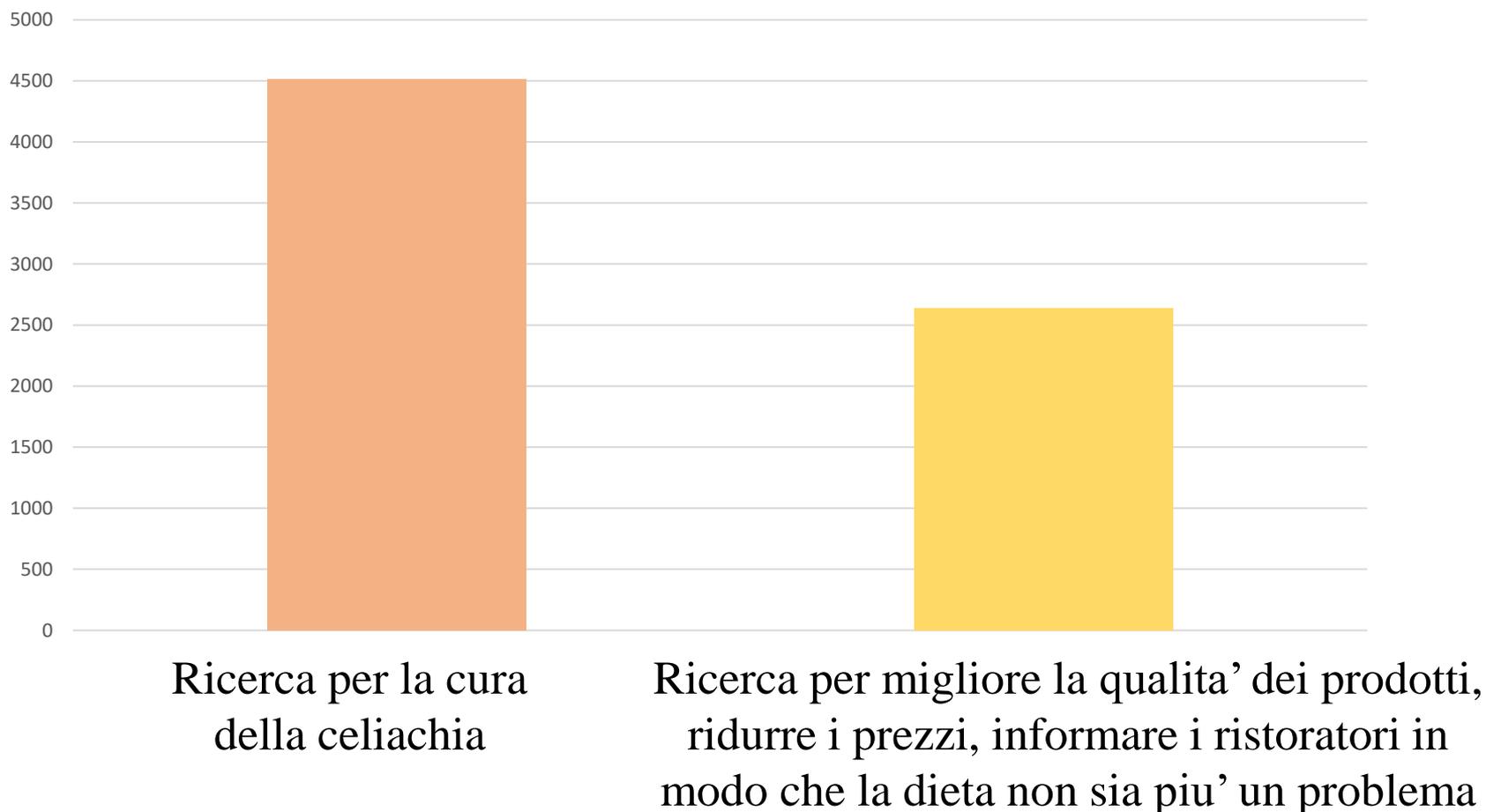
Useresti cibi geneticamente modificati specifici per i celiaci ?



Prenderesti in considerazione una terapia enzimatica?



In conclusione, cosa preferiresti?





***Per favore non
create fase
aspettative nei
pazienti !***



Novita' in tema di prevenzione, diagnosi e trattamento della celiachia



Mauro Bruno

PIEMONTE

METROPOLI

CITTA' DI TORINO