



Endoscopic findings of Duodenum in patients with Celiac Disease

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Received: 13 October 2023

Published: 03 November 2023

Abstract

Materials and methods: 100 patients were included in study who presented to OPD or Emergency of Gastroenterology department Federal Government Polyclinic, Islamabad Pakistan with suggestive of Celiac disease. Patients were investigated with baseline investigations Celiac serology. EGD with duodenal biopsy and genetic testing (as required)

Results: After analysis of the recorded data of selected patients 44% were found to have normal D1 and D2 on EGD, 14% were having Scalloping of duodenal folds, 12% were having flat duodenal mucosa, 12% were having nodular duodenal mucosa, 11% were having fissured duodenal mucosa, 01% were having Granular duodenal mucosa and 06% patients refused to undergo EGD.

Conclusion: Most of the patients with celiac disease have mucosal abnormalities in duodenum, found on Upper GI endoscopy.

NAME	GENDER	AGE	DIA RHEA	ABDPAIN	PALLOR	Weight loss	TTG IgA	TTG IgG	Anti DGP IgG	EGD	Histopathology	Comorbidities	family hx	GENETICS	Mouth Ulcer	ADDRESS
minahil	f	30	yes	yes	yes	yes	positive	positive	negative	scalloping of duodenal folds	Marsh 3c	nil	nil	NA	yes	ibd
kausar	f	63	yes	yes	yes	yes	positive	positive	negative	normal	Marsh 3a	htn	nil	NA	yes	ibd
m.bilal	m	30	no	yes	no	no	positive	positive	negative	flat duodenal mucosa	Mrsh 3a	nil	nil	NA	no	haripur
m.arshad	m	37	yes	yes	no	no	positive	negative	negative	normal	Mrsh 3a	nil	nil	NA	no	ibd
sidra arshad	f	26	no	yes	yes	no	positive	negative	positive	normal	Marsh 3b	arthrititis	nil	NA	no	ibd
abdu llah khan	m	23	yes	no	no	yes	positive	positive	positive	duodenal nodules scalloping of	Marsh 3c	dm	nil	NA	no	ibd

											folds					
faisal salar	m	34	yes	no	yes	yes	positive	positive	negative	normal	nonspecific	nil	nil	DQ2	yes	ibd
altaf hussain	m	41	yes	yes	yes	yes	negative	positive	positive	normal	Marsh 3a	nil	nil	NA	yes	ibd
sundus zamir	f	22	no	yes	no	yes	positive	negative	negative	nodular duodenal mucosa	Marsh 3b	hypothyroid	nil	NA	yes	fatehjang
faisal salim	m	35	no	yes	no	no	positive	negative	negative	flat duodenal mucosa	Marsh 3a	nil	nil	NA	yes	ibd
abdul karim	m	35	no	yes	no	no	negative	positive	positive	normal	Marsh 3b	nil	nil	NA	yes	chitral
saima	f	35	yes	yes	yes	no	positive	positive	positive	gastritis	nonspecific	nil	nil	DQ2	no	ibd
sumaira	f	22	yes	yes	no	no	positive	positive	negative	hiatal hernia	Marsh 3c	nil	nil	NA	no	ajk
naseem akhtar	f	45	no	yes	yes	yes	positive	positive	positive	duodenal ulcer	nonspecific	htn	nil	DQ2/DQ8	yes	ibd
noorulain	f	9	yes	yes	yes	no	positive	negative	positive	normal	Marsh 3a	nil	nil	NA	yes	atd
iqra bibi	f	17	yes	yes	no	no	positive	negative	positive	normal	Marsh 3a	nil	nil	NA	yes	rwp
m.bilal	m	21	no	no	yes	no	positive	positive	positive	normal	nonspecific	nil	first cousin	DQ2	yes	rwp
attiq rehman	m	30	yes	yes	yes	no	positive	positive	positive	gastritis	Marsh 3c	nil	nil	NA	yes	rwp
m.usman	m	30	yes	yes	yes	no	negative	positive	positive	flat duodenal mucosa	Marsh 3c	dm	nil	NA	no	ibd
shamim akhtar	f	23	no	yes	no	no	positive	negative	negative	scalloping of duodenal folds	Marsh 3c	nil	brother	NA	yes	ibd
abdul wahab	m	13	yes	yes	no	yes	positive	negative	negative	scalloping of duodenal folds	Marsh 3b	nil	nil	NA	yes	ibd
m.zees	m	24	yes	yes	no	yes	positive	negative	positive	normal	Marsh 3a	nil	nil	NA	yes	ibd

han							e	e	e							
nimra	f	15	yes	no	yes	no	positive	positive	positive	normal	Marsh 3c	nil	nil	NA	no	ibd
malaika	f	20	yes	yes	yes	no	positive	positive	positive	normal	Marsh 3a	nil	nil	NA	no	ibd
nasreen	f	36	no	yes	no	no	positive	positive	positive	nodular duodenal mucosa	Marsh 3b	hyperthyroid	nil	NA	no	ibd
m.arsalan	m	24	no	yes	no	yes	positive	positive	negative	normal	Marsh 3a	nil	nil	NA	no	murree
zainab	f	25	no	yes	no	yes	positive	negative	positive	normal	nonspecific	nil	nil	DQ2	yes	ibd
naema bato	f	18	yes	yes	no	yes	negative	negative	positive	nodular duodenal mucosa	Marsh 3c	nil	nil	NA	no	skardu
Faizan ali	m	13	no	yes	yes	yes	negative	positive	positive	fissured duodenal mucosa	marsh3b	nil	nil	NA	no	ibd
tehmina	f	48	no	yes	yes	no	positive	positive	positive	nodular duodenal mucosa	Marsh 3a	nil	nil	NA	yes	ibd
saima nadeem	f	38	no	yes	no	no	negative	positive	positive	normal	Marsh 3a	nil	nil	NA	yes	ibd
amnatariq	f	20	no	no	yes	no	positive	positive	negative	flat/scalloped duodenal mucosa	Marsh 3a	nil	nil	NA	yes	ibd
hafza	f	20	no	yes	yes	no	positive	positive	negative	scalloping of duodenal mucosa	Marsh 3a	portal htn	nil	NA	yes	attok
hira bibi	f	23	yes	yes	yes	no	positive	negative	positive	normal	Marsh 3c	nil	nil	NA	yes	ibd
aiza	f	14	yes	yes	no	no	positive	positive	positive	scalloping/fissuring of duodenal mucosa	Mrsh 3c	nil	first cousin	NA	no	ibd
Larab	f	18	yes	no	no	yes	negative	negative	positive	scalloping of duodenal mucosa	Marsh 3c	nil	nil	NA	yes	ibd
Yasmin Tahir	f	34	no	yes	no	no	negative	positive	negative	fissured duodenal mucosa	Mrsh 3c	hypothyroid	nil	NA	yes	ibd

m.abdullah	m	13	yes	yes	yes	no	positive	positive	positive	normal	nonspecific	otitis media	grandfather	NA	yes	ibd
kanwal	f	23	yes	yes	yes	no	positive	negative	negative	normal	Marsh 3b	nil	nil	NA	no	ibd
Abdul Karim	m	28	no	no	yes	no	negative	negative	positive	normal	Mrsh 3b	pollen allergy	nil	NA	no	ibd
Nayab	f	36	yes	no	no	yes	positive	positive	positive	fissured duodenal mucosa	Marsh 3b	hyperthyroid	nil	NA	no	ibd
Abdul wahab	m	14	no	yes	no	yes	negative	positive	positive	nodular duodenal mucosa	Marsh 3c	NIL	grandfather	NA	yes	ibd
sumi adnan	f	35	YES	yes	YES	YES	positive	positive	negative	normal	Marsh 3c	nil	nil	NA	yes	ibd
Warsha Anwar	f	16	no	no	yes	no	positive	positive	positive	normal	Marsh 3a	nil	nil	NA	yes	ibd
M.R izwan	m	17	yes	yes	yes	no	positive	positive	negative	normal	nonspecific	nil	nil	DQ2	yes	ibd
Naziya	f	37	no	yes	no	yes	positive	positive	negative	normal	Marsh 3b	nil	nil	NA	yes	ibd
laiba	f	14	yes	no	yes	yes	positive	negative	negative	normal	Marsh 3a	nil	nil	NA	no	IBD
Ali Mushtaq	m	22	yes	yes	yes	no	positive	positive	positive	flat duodenal mucosa	Marsh 3b	nil	nil	NA	no	ibd
Kashaf	f	12	yes	yes	no	no	negative	negative	positive	normal	Marsh 3a	nil	nil	NA	no	Ibd
munazzara	f	26	no	yes	yes	no	negative	negative	positive	normal	Marsh 3a	hyperthyroid	nil	NA	yes	ibd
Nayab	f	36	no	yes	yes	yes	positive	negative	negative	scalloping of folds	marsh 3b	nil	nil	NA	yes	ibd
Athar abbas	m	15	no	yes	yes	yes	positive	positive	positive	scalloping of folds	marsh 3b	nil	nil	NA	yes	ibd
Anas	m	17	yes	yes	yes	yes	positive	positive	negative	nodular duodenal mucosa	marsh 3c	nil	nil	NA	no	GB
umm	f	13	yes	yes	yes	yes	positive	positive	na	nodular duodenal mucosa	marsh3c	nil	nil	NA	yes	murre

zain ab							e	e		l mucosa						
mai moona	f	35	yes	yes	yes	yes	negative	negative	positive	nodular duodenal mucosa	nonspecific	nil	son	DQ8	yes	ibd
asma	f	23	yes	yes	yes	yes	positive	negative	positive	nodular duodenal mucosa	m3b	nil	nil	NA	yes	ibd
m.junaid	m	16	no	no	yes	no	positive	negative	negative	normal	m3a	nil	nil	DQ2	yes	ibd
m.daud	m	15	yes	yes	yes	yes	positive	positive	positive	scalloping and fissuring of duodenal mucosa	m3c	nil	nil	NA	no	murree
muqaddus khaliid	f	13	yes	yes	yes	yes	negative	positive	positive	normal	m3b	nil	nil	NA	yes	murree
m.bilal2	m	25	yes	yes	yes	yes	positive	positive	positive	nodular duodenal mucosa	m3c	nil	nil	NA	yes	AJK
saman naz	f	28	yes	yes	yes	yes	negative	negative	negative	fissured duodenal mucosa	m3b	nil	nil	NA	yes	ibd
Abdullah zulficar	m	15	no	yes	no	yes	negative	positive	negative	nil	nil	nil	nil	DQ2	no	Murree
Mehram Ali	m	20	yes	yes	yes	yes	positive	positive	negative	duodenal erosion	m3b	nil	nil	NA	yes	Alipur
Syeda Aiman Abid	f	21	yes	yes	yes	yes	negative	negative	positive	fissuring and loss of duodenal folds		nil	cousin	NA	no	islama bad
yasmin akhtar	f	43	yes	yes	yes	yes	negative	negative	n	fissuring of duodenal mucosa	m3a	nil	son	NA	no	islama bad
hassan murtaza	m	14	no	yes	no	no	positive	positive	negative	nil	nil	nil	nil	DQ2	yes	islama bad
Shai sta	f	20	no	yes	no	no	negative	negative	positive	fissuring	m3b	nil	nil	NA	yes	rwp
khaliid	m	25	no	yes	yes	no	positive	negative	negative	normal	m3a	DM	nil	NA	no	MUR REE

Ham eeda	f	34	yes	yes	yes	yes	positive	positive	negative	scalloping of fold flat mucosa	m3c	nil	nil	NA	yes	islama bad
naureen	f	36	no	yes	yes	yes	negative	positive	positive	flat mucosa	m3b	htn	sister	NA	yes	jhelum
saqib	m	17	yes	yes	yes	yes	positive	negative	negative	nil	nil	nil	nil	DQ2	no	Swabi
Neelum	f	21	no	no	no	no	negative	negative	positive	nil	nil	nil	nil	DQ2/ DQ8	yes	Nathia gali
hadia	f	17	yes	yes	no	no	negative	negative	positive	normal	m3a	nil	nil	DQ2	yes	islama bad
Naje eb	m	24	yes	yes	yes	yes	positive	positive	positive	flat duodenal mucosa	m3c	nil	nil	NA	no	attock
tayy ab m	m	14	yes	yes	yes	yes	positive	positive	negative	nil	nil	nil	nil	DQ2/ DQ8	yes	ISLAMABAD
Zar bibi	f	34	no	yes	yes	no	negative	negative	positive	normal	m3a	nil	nil	DQ2	no	Haripur
saim	m	17	no	yes	no	no	positive	negative	positive	flat mucosa	m3c	nil	nil	NA	yes	islama bad
Joseph	m	22	yes	yes	yes	yes	positive	positive	negative	fissured duodenal mucosa	m3b	DM	nil	NA	yes	Islama bad
Laiba	f	27	yes	yes	no	no	negative	negative	positive	normal	m3a	nil	nil	DQ2	yes	Murree
zeeshan	m	43	no	yes	yes	yes	positive	negative	negative	nodular duodenal mucosa	m3c	dm hypothyroid	nil	NA	no	Islama bad
asad ali	m	34	yes	no	yes	yes	negative	positive	negative	normal	m3a	nil	nil	DQ2	yes	islama bad
Gul Shah	m	53	no	no	yes	yes	positive	negative	negative	normal	m3b	dm htn	nil	NA	yes	islama bad
saima	f	16	no	yes	yes	yes	positive	negative	negative	normal	m3a	nil	nil	NA	yes	Rawalpindi
zahid	m	45	yes	yes	yes	yes	negative	positive	negative	flat duodenal mucosa	m3c	ihd htn	nil	NA	no	Abbot tabad
Areeba	f	21	yes	yes	no	no	negative	negative	positive	normal	m3a	nil	nil	DQ2	yes	Jhelum
Riaz khan	m	35	yes	yes	no	no	positive	negative	negative	Granular duodenal	m3c	nil	nil	NA	no	islama bad

							e	e	e	l mucosa						
Bilal	m	19	yes	yes	yes	yes	negative	negative	positive	normal	m3c	nil	cousin	DQ2/ DQ8	yes	islama bad
Saeeda	f	24	no	yes	yes	no	positive	positive	negative	nil	nil	nil	nil	DQ2	yes	islama bad
Niaz	m	29	no	yes	yes	no	negative	negative	positive	fissured duodenal mucosa	m3b	nil	nil	NA	no	Chak wal
naureen	f	43	yes	yes	no	no	positive	negative	negative	normal	m3b	hyper thyroid	nil	NA	no	islama bad
zarmeen	f	24	no	yes	yes	no	negative	negative	positive	flat duodena l mucosa	m3c	nil	nil	NA	yes	Harip ur
Hammeda	f	45	no	yes	yes	no	positive	negative	negative	normal	m3b	dm htn	nil	NA	no	islama bad
Khan Ali	m	28	yes	yes	no	no	negative	negative	negative	fissuring of duodena l mucosa	m3c	nil	nil	DQ2	no	islama bad
Shamabibi	f	30	yes	yes	yes	yes	positive	positive	positive	flat duodena l mucosa	m3b	nil	nil	NA	yes	Abbot tabad
Nausheen	f	23	no	yes	no	no	negative	positive	positive	normal	m3a	nil	broth er	DQ2/ DQ8	no	islama bad
Zafeer	m	15	yes	yes	yes	yes	negative	negative	positive	scalopin g of duodena l mucosal folds	m3c	nil	nil	NA	no	Rawal pindi
Shahzaman	m	51	yes	yes	no	no	positive	negative	negative	fissured duodenal mucosa	m3b	dm hypot hyroid	nil	NA	yes	islama bad
Lalbibibi	f	21	no	no	yes	yes	positive	positive	negative	normal	m3c	nil	nil	NA	no	islama bad
Najma	f	19	yes	no	yes	no	positive	negative	positive	flat duodena l mucosa	m3c	nil	nil	NA	yes	islama bad

