| Patient ID | Gender | Age (years) | Age Cohort | Clinical Diagnose | Oberhüber Score | Positivity of Serologic CD Ab | IgA Deficiency | Familiar with autoimmune disease | Familiar with Celiac Disease(CD) | Presence of other autoimmune disease | ELISA | IFIs |
|------------|--------|-------------|------------|------------------|------------------|-------------------------------|----------------|---------------------------------|---------------------------------|-----------------------------------|-------|------|
| A#040      | F      | 29          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | No                                | Yes   | No   |
| A#041      | F      | 83          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | No                                | Yes   | No   |
| A#043      | F      | 65          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | No                                | Yes   | No   |
| A#049      | F      | 49          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | Yes                              | No    | No   |
| A#057      | F      | 40          | Adult      | ACD              | 3                | Yes                           | No             | No                              | No                              | Yes                              | No    | No   |
| A#061      | F      | 36          | Adult      | ACD              | Normal           | No                            | No             | Yes (CD)                        | Yes                             | No                                | Yes   | No   |
| A#089      | F      | 28          | Adult      | ACD              | 4                | Yes                           | No             | No                              | No                              | No                                | Yes   | No   |
| P#144      | F      | 41          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | Yes                              | No    | No   |
| A#121      | F      | 47          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | No                                | Yes   | No   |
| A#091      | F      | 67          | Adult      | ACD              | 4                | Yes                           | No             | No                              | No                              | No                                | Yes   | No   |
| A#123      | F      | 29          | Adult      | ACD              | 4                | Yes                           | No             | No                              | No                              | No                                | Yes   | No   |
| P#171      | F      | 49          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | No                                | Yes   | No   |
| P#181      | F      | 50          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | No                                | Yes   | No   |
| A#122      | F      | 66          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | No                                | Yes   | No   |
| A#117      | F      | 36          | Adult      | ACD              | 4                | Yes                           | No             | No                              | No                              | Yes                              | No    | No   |
| A#126      | F      | 60          | Adult      | ACD              | 3                | Yes                           | No             | No                              | No                              | Yes                              | No    | No   |
| A#129      | F      | 22          | Adult      | ACD              | 4                | Yes                           | No             | No                              | No                              | No                                | Yes   | No   |
| A#124      | F      | 24          | Adult      | ACD              | 3                | Yes                           | No             | No                              | No                              | No                                | Yes   | No   |
| P#187      | F      | 56          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | No                                | Yes   | No   |
| A#167      | F      | 41          | Adult      | NC               | Normal           | No                            | No             | No                              | No                              | Yes                              | No    | No   |
| A#164      | F      | 19          | Adult      | ACD              | 3                | Yes                           | No             | Yes (CD)                        | Yes                             | No                                | Yes   | No   |
| A#151      | F      | 45          | Adult      | ACD              | 4                | Yes                           | No             | No                              | No                              | Yes                              | No    | No   |
| P#  | Sex | Age | Gender | Type | Protocol | Cause | Lymph Node | Bone Marrow | Liver | Spleen | KPS | CA125 | HGC1 | HGC2 |
|-----|-----|-----|--------|------|----------|-------|------------|-------------|-------|--------|-----|-------|------|------|
| P#189 | F | 41 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#174 | F | 38 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| P#020 | F | 60 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| P#249 | F | 42 | Adult | NC | Normal | No | No | Yes (CD) | Yes | No | Yes | No |
| P#192 | F | 16 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#202 | F | 60 | Adult | ACD | 1 | Yes | No | No | No | No | Yes | No |
| A#155 | F | 27 | Adult | ACD | 4 | Yes | No | No | No | No | Yes | No |
| A#156 | F | 50 | Adult | ACD | 4 | Yes | No | No | No | No | Yes | No |
| P#193 | F | 40 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| P#194 | F | 19 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#165 | F | 30 | Adult | ACD | 3 | Yes | No | No | No | No | Yes | No |
| A#170 | F | 60 | Adult | ACD | 4 | Yes | No | No | No | No | Yes | No |
| A#172 | F | 55 | Adult | ACD | 3 | Yes | No | No | No | No | Yes | No |
| P#195 | F | 54 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| P#196 | F | 15 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#176 | F | 65 | Adult | ACD | 4 | Yes | No | No | No | No | Yes | No |
| A#179 | F | 45 | Adult | ACD | 3 | Yes | No | No | No | No | Yes | No |
| P#200 | F | 60 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| P#207 | F | 45 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#328 | F | 54 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#332 | F | 47 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#334 | F | 60 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#059 | M | 63 | Adult | ACD | 4 | Yes | No | No | No | No | Yes | No |
| A#338 | F | 67 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#038 | M | 57 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| A#259 | M | 16 | Adult | ACD | 1 | Yes | No | No | No | No | Yes | No |
| A#263 | M | 16 | Adult | ACD | 3 | Yes | No | No | No | No | Yes | No |
| A#083 | M | 51 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| P#  | Gender | Age | Age Group | Class | Normal | No 1 | No 2 | No 3 | No 4 | No 5 | CD 1  | CD 2  | CD 3  | CD 4  |
|-----|--------|-----|-----------|-------|--------|------|------|------|------|------|-------|-------|-------|-------|
| P#073 | M | 66 | Adult | NC | Normal | No | No | No | No | No | Yes | No |
| P#215 | M | 38 | Adult | NC | Normal | No | No | No | No | No | No | Yes | No |
| P#216 | M | 37 | Adult | NC | Normal | No | No | No | No | No | No | Yes | No |
| A#337 | M | 45 | Adult | NC | Normal | No | No | No | No | No | No | No | Yes |
| P#005 | F | 2 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | No |
| P#208 | F | 6 | Pediatric | NC | Normal | No | No | No | No | No | No | Yes | No |
| P#209 | F | 3 | Pediatric | NC | Normal | No | No | No | No | No | No | Yes | No |
| P#225 | F | 3 | Pediatric | NC | Normal | Yes | No | No | No | No | Yes | No |
| A#181 | F | 7 | Pediatric | ACD | 3 | Yes | No | Yes | Yes | No | No | Yes |
| P#069 | F | 5 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | No |
| A#199 | F | 7 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | Yes |
| A#200 | F | 10 | Pediatric | ACD | 3 | Yes | No | No | No | No | Yes | No |
| A#238 | F | 11 | Pediatric | ACD | Normal | No | No | No | No | No | Yes | No |
| P#226 | F | 4 | Pediatric | ACD | 1 | Yes | No | No | No | No | Yes | No |
| P#210 | F | 5 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No |
| P#212 | F | 14 | Pediatric | NC | Normal | No | No | No | No | No | Yes | Yes |
| P#013 | M | 5 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No |
| A#243 | F | 7 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | No |
| P#019 | M | 3 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No |
| P#217 | M | 5 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No |
| A#248 | F | 4 | Pediatric | ACD | 4 | Yes | No | Yes | Yes | No | No | Yes |
| A#250 | F | 13 | Pediatric | ACD | 3 | Yes | No | No | No | No | Yes | No |
| P#146 | M | 3 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No |
| P#232 | F | 1 | Pediatric | ACD | 1 | Yes | No | No | No | No | Yes | No |
| A#252 | F | 7 | Pediatric | ACD | 3 | Yes | No | No | No | No | Yes | No |
| P#166 | M | 8 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No |
| A#256 | F | 8 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | Yes |
| P#241 | F | 7 | Pediatric | ACD | 2 | Yes | No | Yes | Yes | No | No | Yes |
| #  | Gender | Age | Diagnosis | Treatment | Response | Opioid | Pain | Sleep | Nutrition | Functionality | Gastrointestinal | Movement | Other | j | k |
|----|--------|-----|-----------|-----------|----------|--------|------|-------|-----------|-------------|----------------|-----------|-------|----|---|
| P#242 | F | 5 | Pediatric | ACD | 2 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#173 | M | 14 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No | No | Yes | No |
| A#258 | F | 6 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | Yes | No | Yes | No |
| P#252 | F | 2 | Pediatric | ACD | 2 | Yes | No | No | No | No | Yes | Yes | No | Yes | No |
| P#328 | F | 10 | Pediatric | ACD | 2 | Yes | No | No | No | No | No | Yes | No | Yes | No |
| P#186 | M | 9 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No | No | Yes | No |
| P#336 | F | 10 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#339 | F | 5 | Pediatric | ACD | 4 | Yes | No | No | No | No | No | Yes | No | Yes | No |
| P#027 | M | 9 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#061 | M | 9 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#191 | M | 1 | Pediatric | NC | Normal | No | No | No | No | No | Yes | Yes | No | Yes | No |
| P#063 | M | 12 | Pediatric | ACD | 3 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#218 | M | 2 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No | No | Yes | No |
| A#267 | M | 10 | Pediatric | ACD | 2 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#169 | M | 5 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| A#270 | M | 3 | Pediatric | ACD | 3 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#185 | M | 4 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| A#271 | M | 6 | Pediatric | ACD | 1 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#233 | M | 3 | Pediatric | ACD | 1 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#222 | M | 5 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No | No | Yes | No |
| P#223 | M | 5 | Pediatric | NC | Normal | No | No | No | No | No | Yes | No | No | Yes | No |
| A#272 | M | 5 | Pediatric | ACD | 4 | Yes | No | No | No | No | Yes | Yes | No | Yes | No |
| A#276 | M | 9 | Pediatric | ACD | 3 | Yes | No | No | No | No | Yes | Yes | No | Yes | No |
| A#277 | M | 4 | Pediatric | ACD | 1 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#234 | M | 2 | Pediatric | ACD | 1 | Yes | No | No | No | No | Yes | No | No | Yes | No |
| P#240 | M | 7 | Pediatric | NC | Normal | No | No | No | No | No | No | No | No | Yes | No |
| P#244 | M | 10 | Pediatric | ACD | Normal | No | No | No | No | No | Yes | No | No | Yes | No |
| P#263 | M | 3 | Pediatric | NC | Normal | No | No | No | No | No | No | No | No | Yes | No |
**Supplementary Table 1: Relevant Characteristics of Patients**

In Gender Column, “F” is for Female and “M” for Male subjects. Adults samples from patients older than 15 years old were obtained from Hospital San Martin of La Plata. Pediatric samples from patients younger than 15 years old were obtained from Hospital Sor María Ludovica of La Plata. The clinical enteropathy score is based on Oberhüber score. The positivity of CD antibodies shows if patients were positive to either IgA or IgG auto antibodies: anti-transglutaminase 2, anti-deamidated gliadin peptides and anti-endomysium antibodies. ELISA and IFIs columns show if patients samples were used in ELISAs of IL33 or sST2 and/or any Fluorescence analysis of mucosal biopsies. CD: Celiac Disease, T1D: Type 1 Diabetes, ACD: active CD and NC: non celiac patient.

| P#   | Gender | Age  | Status   | Score | CD Antibodies | ELISA | IFIs | Other Findings  |
|------|--------|------|----------|-------|---------------|-------|------|----------------|
| 296  | M      | 13   | Pediatric| ACD   | 4             | Yes   | No   | No            |
| A#317| M      | 5    | Pediatric| ACD   | 4             | Yes   | No   | No            |
| 012  | M      | 1    | Pediatric| ACD   | 1             | Yes   | No   | No            |
| 247  | M      | 11   | Pediatric| ACD   | 4             | Yes   | No   | No            |
| 297  | M      | 4    | Pediatric| ACD   | 2             | Yes   | No   | Yes (T1D)    |
| 330  | M      | 4    | Pediatric| ACD   | 4             | Yes   | No   | No            |
| 337  | M      | 14   | Pediatric| ACD   | 3             | Yes   | No   | No            |
| 338  | M      | 3    | Pediatric| ACD   | 4             | Yes   | No   | No            |
| 340  | M      | 5    | Pediatric| NC    | Normal        | No    | No   | No            |

In Supplementary Table 1, we present relevant characteristics of patients samples from two hospitals in La Plata. The samples were categorized into pediatric and adult groups based on age, with pediatric samples from patients younger than 15 years old. The CD antibodies were analyzed for positivity to IgA or IgG auto antibodies, including anti-transglutaminase 2, anti-deamidated gliadin peptides, and anti-endomysium antibodies. ELISA and IFIs columns indicate the use of these methods in the analysis of the patients' samples.