template

Output factsheet: Pilot actions

Version 1

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| Project index number and acronym | CE 111 FOCUS IN CD |
| **Lead partner** | MUNICIPALITY OF MARIBOR (LP MOM) |
| Output number and title | 0.T3.1 Development and implementation of 10 pilot projects- pilot: “Improvement of diagnostic of atypical CD patients”. |
| **Responsible partner (PP name and number)** | PP7 IRCCS Burlo Garofolo Trieste-Italy  Tarcisio Not |
| **Project website** | https://www.interreg-central.eu/Content.Node/Focus-IN-CD.html |
| **Delivery date** | 01-2019 |

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| Summary description of the pilot action explaining its experimental nature and demonstration character |
| We investigated whether histological analysis of the duodenal biopsies combined with intestinal IgA anti-transglutaminase deposits immunoassay makes CD diagnosis possible in at-risk children with atypical forms of celiac disease.  Two hundred forty-five symptomatic children positive for serum anti-tTG (>7 U/mL) were enrolled and divided into 3 groups: extensive duodenal atrophy (n=209), with IgA anti-tTG deposits throughout the duodenum and high serum anti-tTG concentrations (157±178 U/mL); bulb duodenal atrophy (n=22), with widespread IgA anti-tTG deposits in 9 and in the bulb alone in 13 and low serum anti-tTG concentrations (13.9±8.7 U/mL); and normal duodenum (n=14), with widespread IgA anti-tTG deposits in 8 and in the bulb alone in 6 and low serum anti-tTG concentrations (10.6±6.2 U/mL). All patients in the first 2 groups were diagnosed with CD and 8 from the third group. All improved after 1 year of gluten-free diet. Bulb duodenal analysis led to a 12% (30/245) increase in CD diagnosis. No CD-related lesions were observed in the 30 control subjects.  Conclusions: In children at risk for CD, bulb duodenum biopsy sampling is essential to identify villous atrophy and detect IgA anti-tTG deposits even in absence of intestinal lesions. These mucosal autoantibodies could well represent a new standard for diagnosing CD. |

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| NUTS region(s) concerned by the pilot action (relevant NUTS level) |
| The NUTS regions involved in the pilot project are listed here below  **NUTS 1 ITC NORD\_OVEST**  NUTS 2 ITC4 Lombardia  NUTS 3 ITC4B Milano  NUTS 3 ITC4D Monza  **NUTS 1 ITH NORD-EST**  NUTS 2 ITH4 Friuli-Venezia Giulia  NUTS 3 ITH44 Trieste  NUTS 3 ITH42 Udine  NUTS 2 ITH3 Veneto  NUTS 3 ITH34 Treviso |

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| Expected impact and benefits of the pilot action for the concerned territory and target groups |
| We have identified some clinical forms of celiac disease and above all verified a specific CD diagnostic pathway. We have shared this knowledge with pediatricians and gastroenterologists now able to recognize and manage these new CD-clinical conditions.  The interaction with the Foocus-in-CD partners has led to the dissemination of immunological techniques for the best medical practice in the CD-diagnosis.  Increased knowledge on the presence of different CD-clinical forms, their recognition with an appropriate diagnostic path, and the medical care in daily clinical practice. |

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| Sustainability of the pilot action results and transferability to other territories and stakeholders |
| * Working groups: the presence of working groups (pediatricians and adult gastroenterologists) born during the project will ensure the continuity of the new clinical and diagnostic features acquired. The acquisition of diagnostic techniques and the knowledge of the various clinical forms of celiac disease will allow some groups of this project to extend this knowledge to other Italian regions and work groups. * Guidelines: the acquired clinical and diagnostic experience will allow to formulate and apply innovative guidelines for CD treatment by the various working groups. |

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| Lessons learned from the implementation of the pilot action and added value of transnational cooperation |
| Collaboration with pediatricians and adult gastroenterologists has been extremely productive and useful in daily clinical practice and has generated a stable collaboration never before experienced. |

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| References to relevant deliverables and web-links  If applicable, pictures or images to be provided as annex |
| Project web sites  - <https://www.interreg-central.eu/Content.Node/Focus-IN-CD.html>  - <https://www.facebook.com/focusincd/>  - <https://www.celiachia-info.it/focusincd-it>  - <http://www.burlo.trieste.it/content/vuoi-saper-pi-sulla-malattia-celiaca>  - https://www.youtube.com/watch?v=0RgNm4aJS2Y |