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Special Issue Reprint

Advances in Prevention and Management of Celiac Disease

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This Reprint presents the latest advances in the prevention, diagnosis, and management of celiac disease (CD), a multifactorial autoimmune disorder with both gastrointestinal and extra-intestinal manifestations. CD not only responds to gluten exposure but also involves a genetic predisposition (HLA-DQ2/DQ8), immune dysregulation, microbiome and intestinal barrier alterations, and environmental triggers. The collected works explore the full spectrum of these mechanisms, from population-based public health interventions and eating attitudes in adults, to nutritional quality and early evaluation in children commencing a gluten-free diet (GFD). The studies also highlight innovations in emerging diagnostic monitoring omics strategies that are facilitating progress towards precision medicine in CD. Through a multidisciplinary lens encompassing clinicians, nutrition experts, and molecular scientists, this Reprint delivers a comprehensive, current, and translational overview of CD in children and adults, with the goal of shaping future research and improving patient outcomes.

