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INTERNATIONAL PRIMARY IMMUNODEFICIENCIES CONGRESS

Abstracts Approved for Poster Presentation

16 Clodi E. - Efficacy and safety of a subcutaneous human immunoglobulin (20% scig - newnorm) in patients with primary immunodeficiency diseases – design of a phase 3 study.

17 Nasrullayeva G. - Rheumatological manifestations in Primary Immune Deficiency patients.

18 Ndiaye Diop M. - First cohort study of hyperimmunoglobulinemia E (IgE) syndrome diagnosed with the National Institute of Health (NIH) score in a sub-Saharan African country (Dakar, Senegal).

19 Jasso Rangel M. - Omenn syndrome, the importance of early transplant.

21 Kilic S. - Is Pfapa syndrome at the beginning of a pathway to Behcet's disease?

25 Motei C. - Unusual skin lesions in young women: from lupus to primary immunodeficiency.

27 Farrilend P. - Common Organisms of Parotid abscess in Cambodian’s Children.

29 Le Nguyen N. - Hematopoietic stem cell transplantation for primary immunodeficiency diseases in Vietnam.

32 Sheller R. - Severe Combined Immunodeficiency (SCID) Screening for Premature Infants Quality Improvement Project.

33 Genel F. - Gastrointestinal system findings in children with primary immunodeficiencies.

34 SeyedToutounchi S. - ATP6AP1 deficiency accompanied with recurrent gastroenteritis, seizure and normal liver function, a case report.

36 Özdemiral C. - Side effect spectrum of covid-19 vaccines in inborn errors of immunity.

37 Bakhouche H. - Comparative study between the different crossmatch techniques by microlymphocytotoxicity, flow cytometry, luminex and virtual crossmatch.

38 Serra I. - Modeling brain signalling in inborn errors of immunity.

39 Clodi E. - Subcutaneous immunoglobulin 16.5% (cutaquig) safe and efficacious at modified infusion regimens in patients with primary immunodeficiency disease.

40 Konika M. - Newborn screening for severe combined immunodeficiency: experience in Latvia.

41 Katpattil S. - Disease burden for patients with primary immunodeficiency diseases - A comparative study.

42 Sha A. - Health-related quality of life of children with primary immunodeficiency disease: a comparison study.

43 Sha A. - Measuring Treatment Satisfaction in Patients with Primary Immunodeficiency Diseases Receiving Immunoglobulin Infusions.

44 Meshaal S. - AICDA deficiency presenting with inflammatory bowel disease in an adult patient.

45 Lepeshkina O., Solomon G. - Immunoglobulin replacement therapy in patients with immunodeficiencies – the impact of age upon treatment experience and compliance.

46 Gauck D. - Diagnostic yield of genome-wide genetic testing in 640 index cases with inborn errors of immunity.

47 Cabañero Navalón M. - Dysimmunity in common variable immunodeficiency is associated with alterations in oral, respiratory, and intestinal microbiota.

48 Lotfy S. – The cross roads between immunodeficiency and autoinflammation; case presentation.

50 Kılınç M. - A case of bloom syndrome developing myelodysplastic syndrome due to adjuvant therapy given due to breast cancer.

51 Evcen R. - Patient with common variable immunodeficiency presenting with alopecia universalis.

52 Engliz D. - Mandelian susceptiblity to mycobacterial disease in a 13 year old ethiopian girl with autosomal dominant interferon gamma receptor 1 defect, a clinical diagnostic and treatment challenge.

53 Consonni F. - Caspase-10 mutations in autoimmune lymphoproliferative syndrome: end of the story.

54 Onalan T. - The relationship between bronchiectasis and reaching time of the target through level igg in patients with common variable immune deficiency.

55 Akkuş F. - A case diagnosed with artemis mutation in adulthood.

56 Cabañero Navalón M. - Choosing the Best Route of Immunoglobulin Replacement Therapy for CVID: Insights from a Multicentric Spanish Patient Cohort.

57 Cabañero Navalón M. - Dysimmunity and immunosuppressant therapies are associated with increased risk of malignancy in CVID patients.

58 Bhattarai D. - Paradigm shift in diagnosis of inborn errors of immunity- encouraging outcomes of community-directed interventions.

59 Bhattarai D. - Inherited and phenocopies of complement deficiencies in nepal: an exploration of maiden horizon.

60 Budnikov P. - Family case of hereditary angioedema with normal c1-inhibitor and a novel kininogen-1 gene variant.

61 Elhawary R. - A case of malt1 deficiency; clinical and laboratory workup.

62 Ndiaye Diop M. - CARMIL2 mutation in a senegalese child : need collaboration for take care patient and his family.

63 Villegas M. - Long-term hypogammaglobulinaemia after treatment with chemotherapy and autologous haematopoietic stem cell transplantation and rituximab: a case study.

64 Lazarevic D. - Clinical presentation of bruton agammaglobulinemia.

65 Noordin N. - Case report of two patients having immune checkpoint deficiencies presented with autoimmunity and lymphoproliferation.

68 Saidani K. - Omenn syndrome: clinical and immunological profile.

69 Gerek M. - Hepatic involvement in patients with common variable immunodeficiency: a single-center experience.

71 Ljubicic J. - A novel SPI1 mutation in a patient with agammaglobulinemia.

72 Demir A. - Leukocyte adhesion defect type-i: case report.

73 Gueye M. - First case of autosomal recessive stat1 partial deficiency associated to covid-19 in Senegal.

74 Barman P. - T-cell receptor excision circles (TREC) and Kappa-deleting recombination excision circles (KREC) in patients with common variable immunodeficiency: a new prognostic paradigm in inborn errors of immunity.

76 Cabrera-Marante O. - Relation between analytical, clinical and radiological markers in common variable immunodeficiency.

78 Pignata C. - Current epidemiology of activated phosphoinositide 3-kinase δ syndrome in a national retrospective study in Italy.

79 İnan M. - Retrospective evaluation of demographic and clinical features of our primary immunodeficiency patients: a single center experience.

80 Akgul Balaban Y. - Primary immune deficiency-cancer relationship: which came first: the chicken or the egg?

81 Ozen A. - A phase 2/3 study evaluating pozelimab in patients with cd55 deficiency with hyperactivation of complement, angiopathic thrombosis, and protein-losing enteropathy (chaple disease).

82 Iguasnia Portilla D. - Severe adult hypogammaglobulinemia associated with delayed-detected thymoma: controversies between common variable immunodeficiency vs good syndrome.

83 Cabañero Navalón M. - Outcomes of Subcutaneous Immunoglobulin Dose Reduction Strategy in Primary Immune Deficiencies Amid Global Shortage.

84 Rivalta B. - Systemic chronic non-clonal lymphoproliferation in inborn errors of immunity: natural history, risk of lymphoma, and autoimmune manifestations.

85 Rivière J. - The PIDCAP Project: Developing A Warning-Sign-Based Algorithm For Use In An Electronic Health Record Screening Tool For Inborn Errors Of Immunity Screening.

86 Mohamed Kauzar M. - Specific cellular and humoral immune responses to the neoantigen rbd of sars-cov-2 in patients with primary and secondary immunodeficiency and healthy donors.

87 Shiraishi A. - Novel immunodeficiency caused by homozygous mutation in solute carrier family 19 member 1 encoding the reduced folate carrier.

88 Sediva A. - ADA-SCID in Central and Eastern Europe.

89 Da Silva J. - A paradoxical endeavor in genetic syndromes of non-muscular actin: absence of the typical actinopathy immune dysregulation.

90 Ramdas S. - Rare complication in an indian adolescent girl with cd 27 deficiency.

91 Luitel P. - TNFRSF13B mutations in common variable immunodeficiency: correlation or causation?

92 De Rosa V. - Characterization of Regulatory T cell subsets in Common Variable Immunodeficiency (CVID) subjects.

94 Atschekzei F. - Novel hypermorphic variants in IRF2BP2 identified in patients with common variable immunodeficiency and autoimmunity.

95 Bullock M. – Developing a subcutaneous infusion site reaction gradescale (sirg): phase three.

96 Bullock M. - Usability study for a novel intravenous and subcutaneous syringe infusion system.

97 Pereiro Rodríguez A. - High-dimensional immunophenotyping of t CD4+ cells in common variable immunodeficiency.

98 Tunca S. - Coexistence of two pathogenic TACI and ARTEMIS gene defects in a patient presenting with granulomatous skin lesions.

99 Bastorin F. - Hypogammaglobulinemia and severe anemia in an adult patient: what is the common element?.

100 Banday A. - Inborn Errors of Immunity in the Himalayan Region – A Multi-center Study.

101 Martinez Gutierrez F. - From laboratory to clinics, incidence of urinary infections in patients with common variable immunodeficiency in a third level hospital , what do we know? a cross sectional descriptive study.

102 Karaca N. - Transient hypogammaglobulinemia of infancy: Clinical and immunologic features of 385 cases.

103 Fenn B. - Unexpected complications in an indian child with combined immunodeficiency.

105 Stojanovic M. - The early diagnosis of liver fibrosis in enteropathy phenotype of common variable immunodeficiency: importance of shear-wave elastography.

106 de Vries E. - Overlap in immunoglobulin levels and presence of bronchiectasis between unclassified primary antibody deficiency and common variable immunodeficiency patients in the European.

107 Payne J. - Brain biopsy is a safe and important diagnostic tool in children with inborn errors of immunity.

109 Ferranti-Ramos A. - Novel genetic variants in hereditary angioedema: a cohort study from the past 30 years in a single spanish hospital.

110 Zmajkovicova K. - Expanding c-x-c chemokine receptor 4 variant landscape in warts, hypogammaglobulinemia, infections, myelokathexis (whim) syndrome: integrating clinical and functional data for variant interpretation.

113 Sarikavak T. - Life Quality, Depression and Anxiety Levels of Primer Immune Deficient Children's Parents.

114 Mohamed Nashrudin K. - An unusual case of ras guanyl-releasing protein 1 (rasgrp1) mutation associated with diffuse mesangial sclerosis infantile nephrotic syndrome and epstein-barr virus (ebv)-induced hodgkin's lymphoma.

116 Van Nguyen A. - Infection status and quality of life in patients with humoral immunodeficiency in the context of global insufficient gammaglobulin.

117 Mohanty A. - X-linked hyper-immunoglobulin m syndrome harboring a unique and novel cd40-ligand gene mutation, a case report study.

118 Carrabba M. - CD8+ T-cell granulomatous lymphoma associated with common variable immunodeficiency.

119 Karali Y. - Monitoring of immunoglobulin treatment compliance of patients with an inborn error of immunity during the pandemic period.

120 Iliev V. - Performance evaluation of the complement c1q turbidimetric assay on the binding site optilite® analyser.

121 Iliev V. - Performance evaluation of the complement c2 turbidimetric assay on the binding site optilite® analyser.

122 Geyik M. - Retrospective evaluation of patients with chronic granulomatosis.

124 Nguyen Thi Phuong M. - Applying wes technique for diagnosis chronic granulomatous disease in vietnamese patients.

125 Rutland B. - Infusing subcutaneous immunoglobulins - comparison of the constant flow system (cfs) and constant pressure system (cps).

126 Carrasco P. - Long-term safety of facilitated subcutaneous immunoglobulin 10% treatment in patients with primary immunodeficiency diseases: final analysis from a post-authorization safety study.

128 Li Z. - Comparison of tolerability and safety of hyaluronidase-facilitated subcutaneous immunoglobulin 10% and 20% therapies after single subcutaneous administration in healthy adults.

129 Kanegane H. - Pharmacokinetics, safety and efficacy of 20% subcutaneous immunoglobulin administered weekly or every 2 weeks in japanese patients with primary immunodeficiency diseases: a phase 3, open-label study.

130 Anderson-Smits C. - Burden of disease in patients with primary immunodeficiencies currently receiving intravenous immunoglobulin g with low immunoglobulin a content.

131 Jurgens Peters - Increased risk of covid-19–related hospitalization and mortality in vaccinated individuals with primary immunodeficiency disease: initial results from inform, a retrospective study using english national health service datasets.

132 Vásquez P. - Homozygous mutation in tnfrsf13b (coding for taci) in an asymptomatic patient with hypogammaglobulinemia.

133 Keating C. - Gastrointestinal manifestations in patients with activated pi3kδ syndrome (apds) treated with leniolisib.

134 Teran Olvera M. - Evaluation of Quality of Life in Adult Patients with X-Linked Agammaglobulinemia in a Hospital in Mexico: A Study Using the SF-36 Questionnaire.

135 Carrabba M. - Investigation on Hyper-IgE STAT3-DN patients' CD4+ T lymphocytes and their responses to "old friends" pathogens.

136 Russo-Schwarzbaum S. - Efficacy and safety of hyaluronidase-facilitated subcutaneous immunoglobulin 10% in us pediatric patients with primary immunodeficiency disease.

137 Pilania R. - Inborn errors of immunity with neutropenia: clinical and molecular insights from chandigarh, north india.

138 Ouaja R. - A rare case of long-term immune depletion in children following chemotherapy for acute leukemia: secondary or primary immunodeficiency?

139 Jamee M. - Double-negative t cells in inborn errors of immunity with autoimmune lymphoproliferative syndrome-like phenotype.

140 Klefenz I. - Diagnostic Improvements by Whole Genome Sequencing and Optical Genome Mapping in Detection of new Disease-causing structural Variants in Inborn Errors of Immunity.

141 Honsch S. - Study design and baseline characteristics of a single arm, open-label, multicenter, us registry study of elapegademase treatment in patients with severe combined immunodeficiency.

142 Badolato R. - Results of a phase 3 trial of an oral c-x-c chemokine receptor 4 (cxcr4) antagonist, mavorixafor, for treatment of patients with warts, hypogammaglobulinemia, infections, myelokathexis (whim) syndrome.

143 Mannelli J. - Vexas syndrome in a patient with bicytopenia and sweet syndrome/toxicoderma.

144 Edwards E. - Functional assessment of the phosphoinositide 3-kinase (pi3k) pathway can stratify patients for targeted treatment with pi3k inhibitors.

145 Schmitz de Mattos L. - Early diagnosis of hyper-ige syndrome using whole exome sequencing - a case report.

146 Jordan J. - CVID Prevalence within a US Administrative Database.

147 Dikici U. - Evaluation of the adverse effect profile of intravenous immunoglobulin replacement therapy in patients with primary immunodeficiency.

148 Keating C. - Assessing long-term treatment with leniolisib and its effects on bronchiectasis in patients with activated pi3kδ syndrome (apds).

151 FitzPatrick A. - Utilizing proxy diseases to model activated pi3kδ syndrome (apds) health care utilization and outcomes.

152 Matter E. - Qualitative international study to explore the symptoms and health-related quality of life impact of activated phosphoinositide 3-kinase delta syndrome (apds): interim findings.

153 Batra A. - Point-of-care lateral flow detection of viable Escherichia coli O157:H7 using an improved propidium monoazide-recombinase polymerase amplification method.

154 Abdelmoumen A. - Jak inhibition with baricitinib for severe cvid-related enteropathy: a case report.

155 van Stigt A. - Do granulomas in CVID mimic sarcoid granulomas?

160 Kalashnikova T. - Canadian Inborn Errors of Immunity National Registry: an Essential Tool to Advance Management of Patients with Inborn Errors of Immunity and the Allocation of Resources in Healthcare.

161 Alarcón N. - Hereditary angioedema in portoviejo, ecuador: clinical symptoms and relationship with quality of life.

162 Palacios Ortega M. - Beyond wiskott aldrich syndrome (was), the role of wasp-interacting protein (wip) in immunodeficiency and malignancy.

163 Milota T. - Long-term immunogenicity, clinical outcomes and safety of primary and booster vaccination with BNT162b in patients with Common variable immunodeficiency.

164 Escobar Palazon M. - Management and early detection of severe adverse reaction to intravenous immune globulin: the role of the expert nurse.

165 Ballerini C. - TCR, where are you? an intriguing case of a patient with an aberrant t lymphocyte population of cd3+/cd4-/cd8-/tcrαβ-/tcrγδ- and igg2 deficiency.

166 Esenboga S. - IKZF1 Gene Defects - Diverse Clinical Spectrum.

167 Smerkolj M. - Slovenian case series of chédiak higashi syndrome patients.

168 Kauran A. - Inborn errors of metabolism linked with inborn errors of immunity: data from the slovenian national registry.

169 Aygün A. - Current genetic defects in common variable immune deficiency patients on the geography between Europe and Asia.

170 Mansouri M. - In-silico analyses of all stat3 missense variants leading to explore divergent ad-hies clinical phenotypes.

171 Hachlaf O. - In silico analyses of all cd40 ligand missense variants leading to exlore divergant x-linked hyper igm syndrome clinical phenotype.

172 Mansouri M. - Unraveling the p293l mutation in stat1 gene: implications for susceptibility to candida infections and in silico predictions of functional impact.

173 Mansouri M. - Human inborn error of immunity in developing countries: stil challenging.

174 Muñoz-Gómez S. - Complex molecular diagnosis in suspected primary immunodeficiency in neonatal patient: agammaglobulinemia, dyskeratosis congenita or something else?

177 Van Well M. - Near real-time continuous remote monitoring of vital signs of patients during administration of medication at home.

178 Lourens M. - Establishment of a STAT3 gain-of-function model for the identification of new targets in cystoid macular edema treatment.

179 Irani C. - Distinction between Secondary and Primary Hypogammaglobulinemia: challenges in real-life practice.

181 Guerra-Galán T. - Analysis of serum b cell maturation antigen (sbcma) in a cohort of patients with primary antibodies deficiencies.

182 Englmeier L. - A simple assay for identifying innate immune defects upstream of nf-kb – a case report.

183 Rodsaward P. - Agammaglobulinemia in Aicardi-Goutières Syndrome.

184 García Bravo L. - Case report: anti-pl12 antisynthetase syndrome after administration of sars-cov-2 vaccine in a patient with hla genetic susceptibility.

185 Mansilla Ruiz M. - Waldmann's disease in a patient with a mutation in the rasgrp1 gene.

187 Villegas F. - Gastrointestinal disease in CVID: The utility of the duodenal lymphogram.

188 Alba-Cano T. - Lack of specific immune responses after five doses of mrna sars-cov-2 vaccines in a patient with cd4-t cell lymphopenia but preserved responses to cmv. the need of booster doses?

192 Esenboga S. - Skin barrier defects associated with immunodeficiency and erythroderma.

193 Moncayo Muñoz A. - Heterozygous mutation in trex1 gene in a patient with retinal vasculopathy, cerebral leukoencephalopathy and systemic manifestations, a case report.

194 Keating C. - Treatment with the selective pi3kδ inhibitor leniolisib in an atypical case of activated pi3kδ syndrome (apds).

195 Barbera S. - Analysis of diagnostic delay in patients with diagnosis of Inborn errors of Immunity.

196 Bataneant M. - Genetic diversity in pediatric cvid patients – a single center report.

197 Baselli L. - Contiguous x-chromosome deletion syndrome encompassing btk and timm8a genes: a case report.

198 Zondag T. - Radiolabeled somatostatin analog therapy in erdheim-chester disease.

199 Koo H. - Central Nervous System Demyelination Associated with CTLA-4 Haploinsufficiency.

202 Blanco Lobo P. - Immune dysregulation in children with Down syndrome and Janus Kinase inhibition as targeted therapy.

203 Hou J. - Epigenetic activation of the TUSC3 gene as a potential therapy for XMEN disease.

208 Santangeli E. - CD4 lymphopenia and severe chronic mucocutaneous Human Papilloma Virus infection (HPV) in an adult subject with IL2RG defect.

209 Hariyan T. - Knowledge and skills of nurses regarding primary immunodeficiencies.

210 De La Fuente Munoz E. - Immunological profile in Swachman-Diamond like syndrome due to SRP-receptor mutation.

212 Ruiz López L. - From Case Manager Nurse to Advanced Practice Nurse in a Paediatric Primary Immunodeficiency Referral Unit.

213 Skells G. - A randomised, placebo-controlled, phase iii trial of leniolisib in activated pi3kδ syndrome: adult versus adolescent subgroup analysis.

214 Skells G. - Results of a second interim analysis of an ongoing single-arm open-label extension study of leniolisib in activated pi3kδ syndrome: long-term efficacy and safety through to march 2023.

215 Sharma M. - Genetic diversity of HIV-1 in Bihar.

218 Patel P. - Clinical features of patients with congenital athymia who have undergone early immune reconstitution following treatment with allogeneic processed thymus tissue-agdc.

219 Cengiz H. - Psychosocial Evaluation of Adult Primary Immunodeficiency Patients: A Survey Study.

220 Dotta L. - Exploiting the genotype-phenotype correlation in whim syndrome may guide the clinical management.

221 Pantea C. - Genetic evaluation of gata2 deficiency.

222 Dotta L. - Disseminated cryptococcal lymphadenitis reveals stat1 gain-of-funcion syndrome.

224 Lopes Da Silva G. - Humoral and cellular immune response to Covid-19 vaccines after primary vaccination with a 3-dose scheme of homologous or heterologous vaccine in Brazilian patients with Inborn Errors of Immunity compared to healthy controls.

225 Gómez J. - Long covid disease in a patient with common variable immunodeficiency and a dna repair defect: a possible association?

226 Lishchuk-Yakymovych K. - The prevalence of autoimmune disease in patients with common variable immune deficiency.

227 Liquidano-Perez E. - Breaking paradigms. Eczema is more than just atopy.

231 Soresina A. - Ten years follow-up of therapeutic strategies of 35 Ataxia Telangiectasia patients from a single center.

232 Suratannon N. - A Germline STAT6 Gain-of-Function Variant is associated with Early-Onset Allergies.

233 Özdemir O. - Evaluation of renal function in primary immunodeficiency patients receiving intravenous immunoglobulin replacement therapy.

234 Van Coillie S. - The pid odyssey 2030: outlooks, unmet needs, hurdles, and opportunities — proceedings from the ipopi global multi-stakeholders' summit (june 2022).

235 Errami A. - Functional analysis of the il-12/il-23/ifn-γ axis in moroccan patients with mendelian susceptibility to mycobacterial disease.

236 Urtila P. - Case report: inborn errors of immunity cause of chronic mucocutaneous candidiasis in a 6th year old boy.

237 Tabini M. - Subcutaneus Immunoglobulins Replacement Therapy: re-training to improve safety and quality of life.

238 Erkeland S. - A novel role of TDRD6 in immune regulation.

239 Leavis H. - Enteropathy in dutch common variable immunodeficiency cohort.

243 Ishchanka A. - Chronic obstructive pulmonary disease is primary-secondary immunodeficiency.

244 Benhsaien I. - CARMIL2 deficicency: a variable phenotype of the same disease.

245 Gayathri C. - Infantile nephrotic syndrome as a presenting manifestation of wiskott-aldrich syndrome.

246 Celik I. - Poikiloderma with Neutropenia and Hypogammaglobulinemia in a Child with USB1 Mutation.

247 Laha W. - Assessment of endothelial dysfunction and atherosclerotic markers in patients with chronic granulomatous disease: an observational study from north india.

249 Bondarenko A. - Patients with inborn errors of immunity in ukraine: survival in war conditions.

251 Bondarenko A. - Diverse clinical and immunological phenotype in patients with taci mutations.

252 Artac H. - An IRF2BP2 mutation in a pediatric patient with common variable immunodeficiency.

253 Nadig P. - A significant proportion of children with early onset autoimmune cytopenia has underlying inborn errors of immunity: an experience from a tertiary care centre in north India.

254 Nadig P. - Maculopapular purpuric rash (hsp-like) in il 12rb1 deficiency. is it a sign of persistent smoldering infection or autoimmunity?

255 Nadig P. - A case of massive splenomegaly and smouldering hemophagocytosis - a diagnostic challenge.

256 Sogkas G. - Rituximab to treat vasculitis and cutaneous ulcerations in prolidase deficiency: a case study.

257 Sogkas G. - Identification of variants in genes associated with autoinflammatory disorders in psoriatic arthritis: a case-control study.

258 Zhou Z. - A patient-based stat3 l387r gain-of-function variant murine model.

259 Ricci S. - Haemophagocytic lymphohistiocytosis in children: an additional warning sign for Inborn Errors of Immunity.

260 Ricci S. - Flu vaccination in high-risk children: parental survey at a third-level Hospital.

261 Francesca Lippi - Whole Exome Sequencing enables CVID metamorphosis to different Inborn Errors of Immunity.

262 Clementina Canessa - The expanded newborn screening for Inborn Errors of Immunity in Tuscany, Italy.

263 Stepanovskyy Y. - Autoinflammatory diseases in Ukraine.

264 Klemann C. - Complicated course of activated pi3kδ syndrome-1 (apds-1) ameliorated by leniolisib: a case study.

265 Kurjane N. - Molecular characterization of Inborn errors of immunity (or primary immunodeficiencies) using Genome sequencing – first findings of the Latvian Council of Science project.

266 Tolgay E. - Serum Mannose Binding Level and Gene Polymorphism in Down Syndrome.

267 Carrabba M. - Durability of immune response after anti-SARS-CoV-2 mRNA booster vaccination in patients with Common Variable Immunodeficiency.

270 Sharafian S. - Demographic, clinical, immunological, and molecular features of iranian national cohort of patients with defect in DCLRE1C gene.

271 Oussama K. - GATA 2 deficiency presenting with generalized verrucosis: case report.