

MTG1 – COVID

There is no contraindication against COVID vaccination.

We advise that the following patient groups with rare adrenal disorders are prioritized for vaccination against COVID:

Adrenal insufficiency:

Currently there is no real world data for an increased risk for a Sars-CoV-2 infection in patients with adrenal insufficiency nor for a severe course in case of a COVID infection in this patient group. However, patients with adrenal insufficiency generally have a higher risk of mortality in case of infections due to the additional risk of adrenal crises. Therefore patient education is of particular importance and they should be prioritized for COVID vaccination.

Kienitz T, Hahner S, Burger-Stritt S, Quinkler M. Therapeutic Patient Education for Adrenal Insufficiency under COVID-19 Pandemic Conditions. Exp Clin Endocrinol Diabetes. 2020 Aug 6. doi: 10.1055/a-1217-7208. Epub ahead of print. PMID: 32767286.

Cushing syndrome:

Patients with Cushing syndrome suffer from comorbidities (e.g. hypertension, diabetes) that have been shown to be associated with a severe course of COVID.

Puig-Domingo M, Marazuela M, Giustina A. COVID-19 and endocrine diseases. A statement from the European Society of Endocrinology. Endocrine. 2020 Apr;68(1):2-5. doi: 10.1007/s12020-020-02294-5. PMID: 32279224; PMCID: PMC7150529.

Marazuela M, Giustina A, Puig-Domingo M. Endocrine and metabolic aspects of the COVID-19 pandemic. Rev Endocr Metab Disord. 2020 Dec;21(4):495-507. doi: 10.1007/s11154-020-09569-2. Erratum in: Rev Endocr Metab Disord. 2021 Jan 6;: PMID: 32643004; PMCID: PMC7343578.

APS1:

Patients with APS1 have been shown to develop autoantibodies against type 1 interferone, which places them at a higher risk for a severe course in case of a Sars-CoV-2 infection.

Beccuti G, Ghizzoni L, Cambria V, Codullo V, Sacchi P, Lovati E, Mongodi S, Iotti GA, Mojoli F. A COVID-19 pneumonia case report of autoimmune polyendocrine syndrome type 1 in Lombardy, Italy: letter to the editor. J Endocrinol Invest. 2020 Aug;43(8):1175-1177. doi: 10.1007/s40618-020-01323-4. Epub 2020 Jun 9. PMID: 32519200; PMCID: PMC7282538.

Disclaimer: this is a consensus expert opinion form Endo-ERN. Individual member states have different national road maps for the vaccination of their citizens with different priorities, and are not obliged to follow these statements

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Bastard P, Rosen LB, Zhang Q, Michailidis E, Hoffmann HH, Zhang Y, Dorgham K, Philippot Q, Rosain J, Béziat V, Manry J, Shaw E, Haljasmägi L, Peterson P, Lorenzo L, Bizien L, Trouillet-Assant S, Dobbs K, de Jesus AA, Belot A, Kallaste A, Catherinot E, Tandjaoui-Lambiotte Y, Le Pen J, Kerner G, Bigio B, Seeleuthner Y, Yang R, Bolze A, Spaan AN, Delmonte OM, Abers MS, Aiuti A, Casari G, Lampasona V, Piemonti L, Ciceri F, Bilguvar K, Lifton RP, Vasse M, Smadja DM, Migaud M, Hadjadj J, Terrier B, Duffy D, Quintana-Murci L, van de Beek D, Roussel L, Vinh DC, Tangye SG, Haerynck F, Dalmau D, Martinez-Picado J, Brodin P, Nussenzweig MC, Boisson-Dupuis S, Rodríguez-Gallego C, Vogt G, Mogensen TH, Oler AJ, Gu J, Burbelo PD, Cohen JI, Biondi A, Bettini LR, D'Angio M, Bonfanti P, Rossignol P, Mayaux J, Rieux-Laucat F, Husebye ES, Fusco F, Ursini MV, Imberti L, Sottini A, Paghera S, Quiros-Roldan E, Rossi C, Castagnoli R, Montagna D, Licari A, Marseglia GL, Duval X, Ghosn J; HGID Lab; NIAID-USUHS Immune Response to COVID Group; COVID Clinicians; COVID-STORM Clinicians; Imagine COVID Group; French COVID Cohort Study Group; Milieu Intérieur Consortium; CoV-Contact Cohort; Amsterdam UMC Covid-19 Biobank; COVID Human Genetic Effort, Tsang JS, Goldbach-Mansky R, Kisand K, Lionakis MS, Puel A, Zhang SY, Holland SM, Gorochov G, Jouanguy E, Rice CM, Cobat A, Notarangelo LD, Abel L, Su HC, Casanova JL. Autoantibodies against type I IFNs in patients with life-threatening COVID-19. *Science*. 2020 Oct 23;370(6515):eabd4585. doi: 10.1126/science.abd4585. Epub 2020 Sep 24. PMID: 32972996.

Adrenal cancer:

Patients with cancer have been shown to have a higher risk of a severe course of a Sars-CoV-2 infection.

Cai G, Gao Y, Zeng S, Yu Y, Liu X, Liu D, Wang Y, Yu R, Desai A, Li C, Gao Q. Immunological alternation in COVID-19 patients with cancer and its implications on mortality. *Oncoimmunology*. 2021 Jan 4;10(1):1854424. doi: 10.1080/2162402X.2020.1854424. PMID: 33489469; PMCID: PMC7801126.

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