

FULL TEXT LINKS



Case Reports J Diabetes Investig. 2022 Jul;13(7):1290-1292. doi: 10.1111/jdi.13781.

Epub 2022 Mar 12.

Type 1 diabetes mellitus following COVID-19 RNAbased vaccine

Kanako Sakurai ¹, Daiki Narita ¹, Naomi Saito ¹, Takayuki Ueno ¹, Ryota Sato ¹, Satsuki Niitsuma ¹, Kazuhiro Takahashi ², Zenei Arihara ¹

Affiliations

PMID: 35220662 PMCID: PMC9114989 DOI: 10.1111/jdi.13781

Free PMC article

Abstract

The epidemic of coronavirus disease-2019 (COVID-19) is the major public health issue in the world. COVID-19 vaccines are one of the most effective strategies against COVID-19. Here we report a 36-year-old female patient who had thirst, polydipsia, polyuria, palpitations, loss of appetite, and fatigue 3 days after the first dose of COVID-19 RNA-based vaccines without a prior history of diabetes. Ten days after vaccination, she visited our hospital with diabetic ketoacidosis and was diagnosed with type 1 diabetes. Hyperglycemia (501 mg/dL), anion gap metabolic acidosis and ketonuria were observed. The glycated hemoglobin level was 7.0%. Islet-related autoantibodies were all negative. The glucagon tolerance test revealed attenuated secretion of insulin. Human leukocyte antigen was haplotype DRB1*0405-DQB1*0401, which was associated with type 1 diabetes in Japan. The present case suggests that COVID-19 RNA-based vaccines might trigger the onset of type 1 diabetes, even in subjects without prior histories of diabetes.

Keywords: COVID-19 RNA-based vaccines; Ketoacidosis; Type 1 diabetes.

© 2022 The Authors. Journal of Diabetes Investigation published by Asian Association for the Study of Diabetes (AASD) and John Wiley & Sons Australia, Ltd.

PubMed Disclaimer

Related information

MedGen

LinkOut - more resources

Full Text SourcesEurope PubMed Central
PubMed Central
Wiley

Medical

Genetic Alliance

MedlinePlus Health Information

11/6/23, 6:46 PM Miscellaneous

NCI CPTAC Assay Portal