

Immunoglobulin G Glycosylation Profile in Influenza and COVID-19 Infected Patients

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Abstract : Immunoglobulin G has essential role in defense against infectious diseases, but its role cannot be fully recognized without understanding of changes in its N-glycans attached to the Fc domain. We analyzed and compared total IgG glycome in plasma samples of patients with influenza, patients with COVID-19 and healthy controls. We found similarities in IgG glycosylation changes in COVID-19 survivors and influenza patients that could be the consequence of adequate immune response to enveloped viruses, while observed changes in deceased COVID-19 patients may indicate its deviation.

Keywords : COVID-19, glycosylation, immunoglobulin G, influenza, pneumonia, viral infection

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