Supplementary Material

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Table 1. Red flags criteria

Receiving a second dose of a vaccine that was different from the first dose	Experiencing an unsolicited adverse event that was not listed in the checklist	Having allergic reactions
Experiencing an adverse event that lasted more than three days	Experiencing fever for more than 3 days	Admitted to hospital after vaccination
Recovered with sequelae	Experiencing moderate or severe shortness of breath	Death

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Table 3. Overall predictors for adverse events.

Independent variables (variables VS reference)	AOR	95% CI for AORs		P values
Age (≥ 65 years Vs < 65 years)	0.437	0.425	0.449	0.001
Gender (male Vs females)	0.500	0.459	0.505	0.013
Previous COVID-19 infection (infected Vs not infected)	1.181	1.168	1.195	0.005
Influenza vaccine (vaccinated Vs not vaccinated)	1.143	1.121	1.166	0.001
Drug sensitivity (sensitive to a drug Vs not sensitive to a drug)	1.557	1.518	1.597	0.005
Food sensitivity (sensitive to food Vs not sensitive to food)	1.774	1.720	1.830	0.023
Smoking (smoker Vs not smoker)	1.139	1.126	1.153	0.001

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Table 4. Predictors for adverse events reported by individuals who received BNT162b2 vaccine.

Independent variables (variables VS reference)	AOR	95% CI for AORs		P values
Age (≥ 65 years Vs < 65 years)	0.483	0.464	0.502	0.003
Gender (male Vs females)	0.580	0.573	0.587	0.001
Previous COVID-19 infection (infected Vs not infected)	1.379	1.360	1.399	0.002
Influenza vaccine (vaccinated Vs not vaccinated)	1.058	1.030	1.087	0.004
Drug sensitivity (sensitive to a drug Vs not sensitive to a drug)	1.691	1.629	1.755	0.003
Foor sensitivity (sensitive to food Vs not sensitive to food)	1.887	1.811	1.967	0.018
Smoking (smoker Vs not smoker)	1.141	1.125	1.158	0.008

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Table 5. Predictors for adverse events reported by individuals who received BBIBP-CorV vaccine.

Independent variables (variables VS reference)	AOR	95% CI for AORs		P values
Age (≥ 65 years Vs < 65 years)	1.969	1.866	2.078	0.004
Gender (male Vs females)	2.014	1.971	2.057	0.001
Previous COVID-19 infection (infected Vs not infected)	0.867	0.845	0.889	0.001
Influenza vaccine (vaccinated Vs not vaccinated)	0.896	0.857	0.938	0.001
Drug sensitivity (sensitive to a drug Vs not sensitive to a drug)	0.498	0.477	0.520	0.001
Foor sensitivity (sensitive to food Vs not sensitive to food)	0.514	0.485	0.520	0.028
Smoking (smoker Vs not smoker)	1.142	1.108	1.177	0.007

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Table 6. Predictors for adverse events reported by individuals who received ChAdOx1 nCoV-19 vaccine.

Independent variables (variables VS reference)	AOR	95% CI for AORs		P values
Age (≥ 65 years Vs < 65 years)	2.434	2.271	2.608	0.001
Gender (male Vs females)	2.546	2.483	2.611	0.001
Previous COVID-19 infection (infected Vs not infected)	0.886	0.852	0.920	0.001
Influenza vaccine (vaccinated Vs not vaccinated)	1.834	1.691	1.982	0.801
Drug sensitivity (sensitive to a drug Vs not sensitive to a drug)	0.698	0.427	0.821	0.001
Food sensitivity (sensitive to food Vs not sensitive to food)	0.414	0.385	0.638	0.028
Smoking (smoker Vs not smoker)	1.325	1.112	1.502	0.001

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28 **Table 7. Predictors for adverse events reported by individuals who received Sputnik V**
29 **vaccine.**

Independent variables (variables VS reference)	AOR	95% CI for AORs		P values
Previous COVID-19 infection (infected Vs not infected)	0.696	0.527	0.918	0.010
Drug sensitivity (sensitive to a drug Vs not sensitive to a drug)	0.318	0.125	0.811	0.016
Foor sensitivity (sensitive to food Vs not sensitive to food)	0.234	0.094	0.583	0.024
Smoking (smoker Vs not smoker)	1.102	1.017	1.366	0.014

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