

Explosive Increase in Cardiac Symptoms After Second Injection

Adolescent COVID-19 Vaccination Results in Cardiotoxicity and ECG Changes Prompting Concern

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I have said on national TV throughout the COVID-19 vaccine campaign that no young person should receive a shot because the risks far outweigh the benefits. Chiu et al published a report where both cardiac symptoms and ECG changes were recorded after the first and second injections. The results are alarming. After the second injection of mRNA 17.1% of students reported cardiovascular symptoms.

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RESEARCH



Changes of ECG parameters after BNT162b2 vaccine in the senior high school students



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Table 1 The incidence of cardiac related symptoms after the 1st and 2nd dose of BNT162b2 vaccine in our cohort

	After 1st dose	After 2nd dose	P value		Number (%)	Incidence
Palpitation	62 (1.3%)	373 (8.5%)	<.001	ST-T change (elevation ≥ 2 mm or new T wave inversion)	37 (72.5%)	0.75%
Chest pain	102 (2.1%)	394 (8.9%)	<.001	Arrhythmia	7 (13.7%)	0.14%
Dyspnea	51 (1.0%)	17 (0.4%)	<.001	Premature ventricular contractions (all new onset)	4 (7.8%)	0.08%
Dizziness or syncope	109 (2.2%)	151 (3.4%)	<.001	Sinus bradycardia	2 (3.9%)	0.04%
Any of the cardiac symptoms	280 (5.7%)	763 (17.1%)	<.001	Atrial tachycardia	1 (2.0%)	0.02%
				BBB (all new incomplete right bundle branch block)	3 (5.9%)	0.06%
				Abnormal QRS (QRS axis change > 45 degrees or sum of chest leads' (R+S) decreased by > 30%)	2 (3.9%)	0.04%
				Prolong QT (QT interval increase > 20 ms)	2 (3.9%)	0.04%
				Total	51 (100%)	1.03%

significantly after the vaccine with increasing heart rate. Abnormal ECGs were obtained in 51 (1.0%) of the students, of which 1 was diagnosed with mild myocarditis and another 4 were judged to have significant arrhythmia. None of the patients

Chiu SN, Chen YS, Hsu CC, Hua YC, Tseng WC, Lu CW, Lin MT, Chen CA, Wu MH, Chen YT, Chien TH, Tseng CL, Wang JK. Changes of ECG parameters after BNT162b2 vaccine in the senior high school students. *Eur J Pediatr.* 2023 Jan 5:1-8. doi: 10.1007/s00431-022-04786-0. Epub ahead of print. PMID: 36602621; PMCID: PMC9813456.

The difficulty for parents is to sort out symptoms indicative of the FDA acknowledged side effects of myopericarditis and pulmonary embolism. Because of the very high rate of symptomatic side effects, even ECG screening will not be enough. Fortunately, there were no serious adverse events in this study. However, when a cardiotoxic vaccine is administered to millions of adolescents, there are hundreds of thousands of symptomatic cases and the interpretation by parents and healthcare providers is quickly becoming a nightmare. Of great concern, are cases where the symptoms are interpreted as benign yet the child is suffering significant heart damage and later on is set up for sudden cardiac death during sleep or athletic events.

In summary the best way to protect both children and parents from this unnecessary nightmare is to decline COVID-19 vaccination and thereby eliminate the risk of iatrogenic heart disease.

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[Chiu SN, Chen YS, Hsu CC, Hua YC, Tseng WC, Lu CW, Lin MT, Chen CA, Wu MH, Chen YT, Chien TH, Tseng CL, Wang JK. Changes of ECG parameters after BNT162b2 vaccine in the senior high school students. *Eur J Pediatr.* 2023 Jan 5:1-8. doi: 10.1007/s00431-022-04786-0. Epub ahead of print. PMID: 36602621; PMCID: PMC9813456.](https://doi.org/10.1007/s00431-022-04786-0)

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