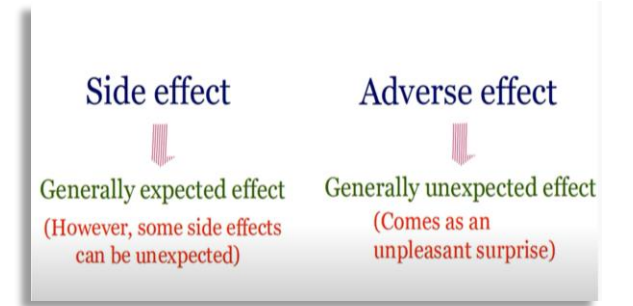


COVID-19 vaccine side effect vs. illness symptoms

Likely post-vaccine side effect	Possible onset of illness
Fever <small>lasting less than 24-48 hours</small>	Cough
Fatigue	Shortness of breath
Headache	Sore throat/ runny nose
Chills	Change in smell/taste
Muscle or joint pain	Fever <small>lasting longer than 24-48 hours</small>



Aşı Yan Etkileri Kanıt mı, Kanaat mi?

Dr. R. Aytaç ÇETİNKAYA

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PubMed.gov

Search: covid-19 vaccine side effects

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MY NCBI FILTERS

3,963 results

Page 1 of 397

RESULTS BY YEAR

TEXT AVAILABILITY

- Oral side effects of COVID-19 vaccine.
 - 1 Riad A.
Cite Br Dent J. 2021 Jan;230(2):59. doi: 10.1038/s41415-021-2615-x.
PMID: 33483637 Free PMC article. No abstract available.
- Side effects of BNT162b2 mRNA COVID-19 vaccine: A randomized, cross-sectional study with detailed self-reported symptoms from healthcare workers.
 - 2 Kadali RAK, Janagama R, Peruru S, Malayala SV.

NIH National Library of Medicine
National Center for Biotechnology Information

PubMed.gov

Search: covid-19 vaccine adverse effects

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3,250 results

Page 1 of 325

RESULTS BY YEAR

TEXT AVAILABILITY

- COVID-19 vaccines: comparison of biological, pharmacological characteristics and adverse effects of Pfizer/BioNTech and Moderna Vaccines.
 - 1 Meo SA, Bukhari IA, Akram J, Meo AS, Klonoff DC.
Cite Eur Rev Med Pharmacol Sci. 2021 Feb;25(3):1663-1669. doi: 10.26355/eurrev_202102_24877.
PMID: 33629336 Free article. Review.

The key terms used were: Coronavirus, SARS-COV-2, COVID-19 pandemic, vaccines, Pfizer/BioNTech vaccine, Moderna vaccine, pharmacology, benefits, allergic responses, indications, contraindications, and adverse effects. ...Both va ...
- Allergic Reactions Including Anaphylaxis After Receipt of the First Dose of Pfizer-BioNTech COVID-19 Vaccine - United States, December 14-23, 2020.
 - 2 CDC COVID-19 Response Team; Food and Drug Administration.

Yan etki
(Side effect)

İyi

Kötü

Minoksidil

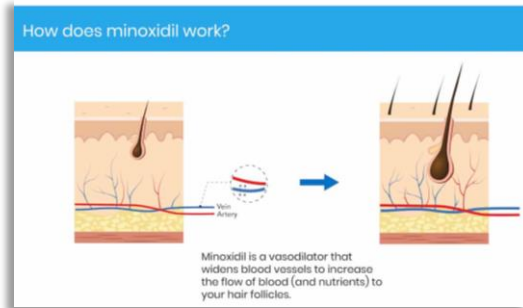
Antibiyotik

Antihipertansif

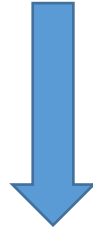


İstenmeyen saç büyümesi

Mide bulantısı
Kusma
İshal



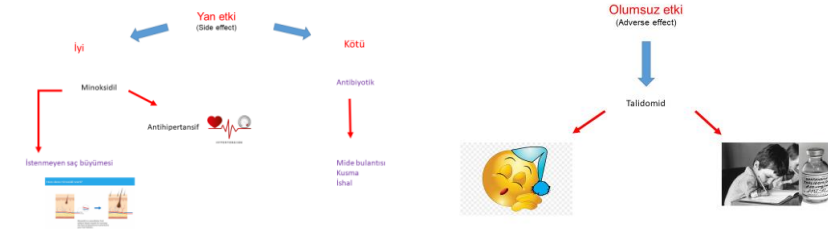
Olumsuz etki (Adverse effect)



Talidomid



Covid-19 aşı sayısı?



COVID-19 - Landscape of novel coronavirus candidate vaccine development worldwide

20 Mayıs 2022 Cuma

DISCLAIMER: These landscape documents have been prepared by the World Health Organization (WHO) for information purposes only concerning the 2019-2020 pandemic of the novel coronavirus. Inclusion of any particular product or entity in any of these landscape documents does not constitute, and shall not be deemed or construed as, any approval or endorsement by WHO of such product or entity (or any of its businesses or activities). While WHO takes reasonable steps to verify the accuracy of the information presented in these landscape documents, WHO does not make any (and hereby disclaims all) representations and warranties regarding the accuracy, completeness, fitness for a particular purpose (including any of the aforementioned purposes), quality, safety, efficacy, merchantability and/or non-infringement of any information provided in these landscape documents and/or of any of the products referenced therein. WHO also disclaims any and all liability or responsibility whatsoever for any death, disability, injury, suffering, loss, damage or other prejudice of any kind that may arise from or in connection with the procurement, distribution or use of any product included in any of these landscape documents.

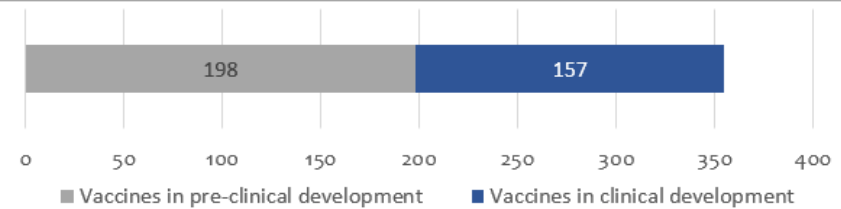
Summary Information on Vaccine Products in Clinical Development

1. - Number of vaccines in clinical development

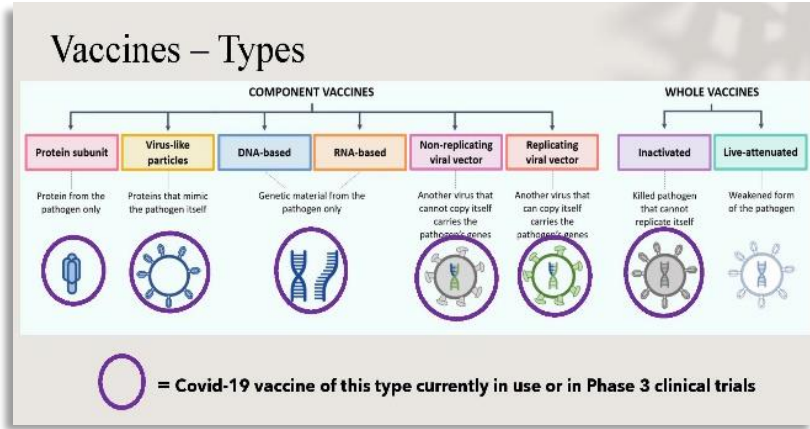
157

2. - Number of vaccines in pre-clinical development

198



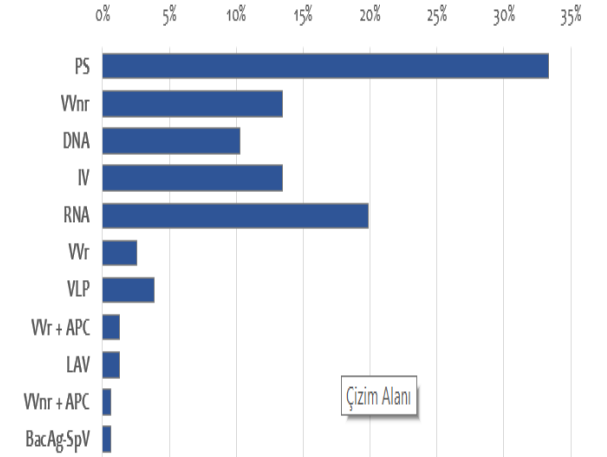
Covid-19 aşı çeşidi?



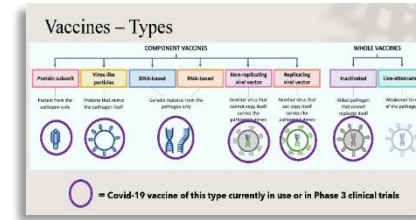
3. Candidates in clinical phase

Filter: Select phase of development (default is all)

Platform	Candidate vaccines (no. and %)
PS	Protein subunit 52 33%
Wnr	Viral Vector (non-replicating) 21 13%
DNA	DNA 16 10%
IV	Inactivated Virus 21 13%
RNA	RNA 31 20%
VVr	Viral Vector (replicating) 4 3%
VLP	Virus Like Particle 6 4%
Wnr + APC	Wnr + Antigen Presenting Cell 2 1%
LAV	Live Attenuated Virus 2 1%
Wnr + APC	Wnr + Antigen Presenting Cell 1 1%
BacAg-SpV	Bacterial antigen-spore expression vector 1 1%

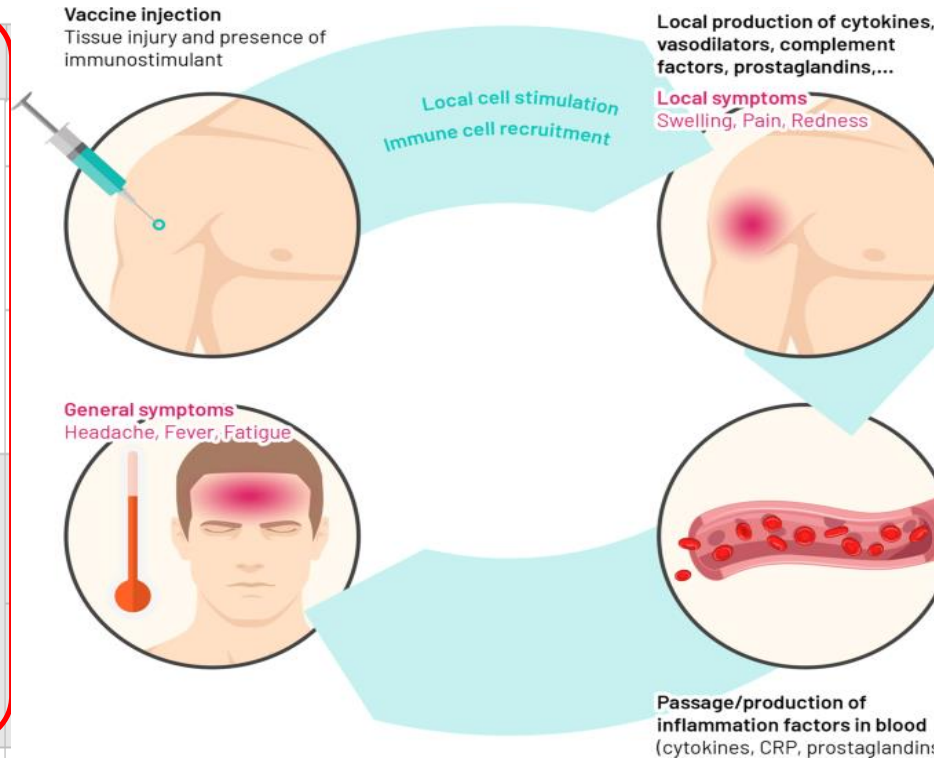


mRNA aşıları yan etki

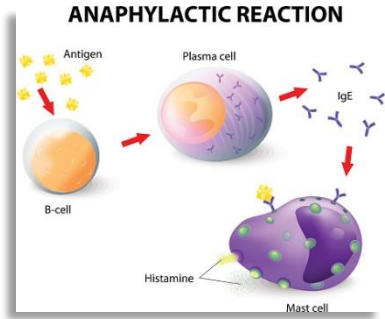


COVID-19 vaccines available in the United States^[1-4]

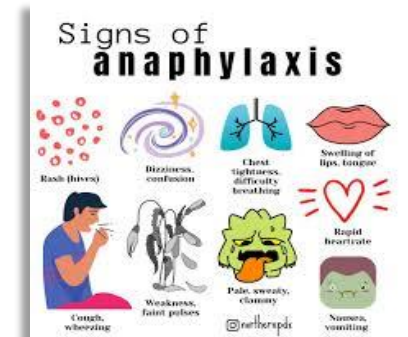
Name	Company/developer	Platform
BNT162b2 ⁴	Pfizer/BioNTech	mRNA
mRNA-1273 ⁴	Moderna	mRNA



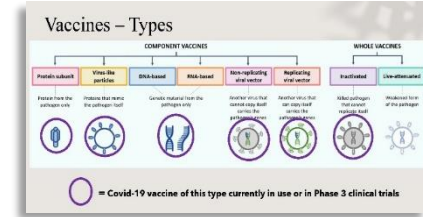
Common side effects	Rare adverse effects
<ul style="list-style-type: none"> Local injection site reactions Systemic symptoms (fevers, chills, fatigue, myalgias, headache) 	<ul style="list-style-type: none"> Anaphylaxis (approximately 5 per million doses) Myocarditis/pericarditis (approximate risk following primary series):^[5] <ul style="list-style-type: none"> For males 12 to 16 years old: 71 cases/million doses For males 16 to 17 years old: 106 cases/million doses For males 18 to 24 years old: 52 cases/million doses For males 25 to 29 years old: 17 cases/million doses For females of the same age group: 2 to 11 cases/million doses
<ul style="list-style-type: none"> Local injection site reactions Systemic symptoms (fevers, chills, fatigue, myalgias, headache) 	<ul style="list-style-type: none"> Anaphylaxis (approximately 2.8 per million doses) Myocarditis/pericarditis (approximate risk following primary series):^[5] <ul style="list-style-type: none"> For males 18 to 24 years old: 56 cases/million doses For males 25 to 29 years old: 24 cases/million doses For females of the same age group: 7 to 8 cases/million doses



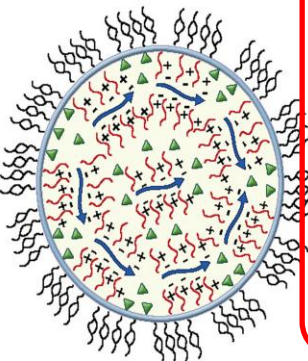
mRNA aşıları anafilaksi yapar mı?



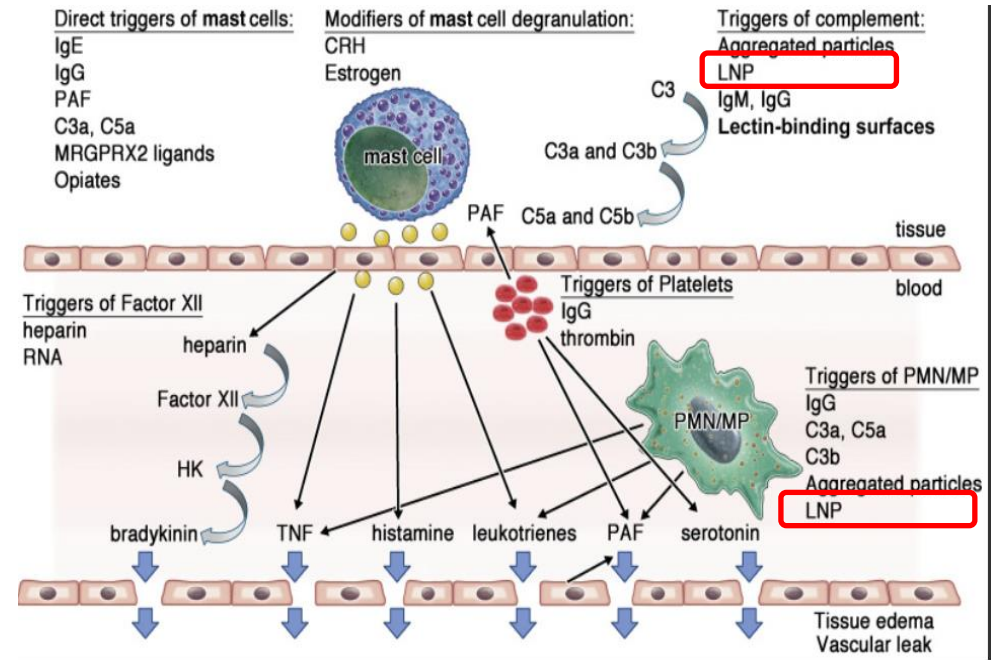
mRNA aşıları yan etki, olumsuz etki

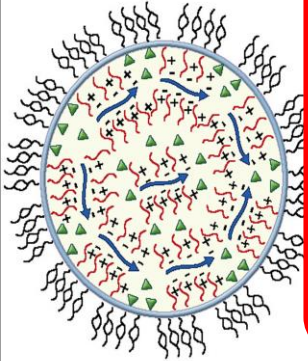


Company/developer	Platform	Indicated ages	Primary series	First booster dose and interval*	Second booster dose and interval*†	Common side effects	Rare adverse effects
Pfizer/BioNTech	mRNA	5 to 11 years	Two 10 mcg (0.2 mL orange cap formulation) doses 3 weeks apart [◊] §	One 10 mcg (0.2 mL orange cap formulation) dose 5 months following the primary series.	Second booster dose not authorized	<ul style="list-style-type: none"> Local injection site reactions Systemic symptoms (fevers, chills, fatigue, myalgias, headache) 	<ul style="list-style-type: none"> Anaphylaxis (approximately 5 per million doses) Myocarditis/pericarditis (approximate risk following primary series):^[5] <ul style="list-style-type: none"> For males 12 to 16 years old: 71 cases/million doses For males 16 to 17 years old: 106 cases/million doses For males 18 to 24 years old: 52 cases/million doses For males 25 to 29 years old: 17 cases/million doses For females of the same age group: 2 to 11 cases/million doses
		12 to 50 years	Two 30 mcg (0.3 mL purple or gray cap formulation) doses 3 weeks apart [◊] <ul style="list-style-type: none"> Healthy individuals <65 years old can extend the interval to 8 weeks[¶] 	One 30 mcg (0.3 mL purple or gray cap formulation) dose 5 months following the primary series [‡]	For individuals with moderately to severely immunocompromising conditions: <ul style="list-style-type: none"> One 30 mcg (0.3 mL purple or gray cap formulation) dose 4 months following the first booster dose 		
		>50 years	Two 30 mcg (0.3 mL purple or gray cap formulation) doses 3 weeks apart [◊] <ul style="list-style-type: none"> Healthy individuals <65 years old can extend the interval to 8 weeks[¶] 	One 30 mcg (0.3 mL purple or gray cap formulation) dose 5 months following the primary series [‡]	One 30 mcg (0.3 mL purple or gray cap formulation) dose 4 months following the first booster dose		
Moderna	mRNA	18 to 50 years	Two 100 mcg (0.5 mL red cap formulation) doses 4 weeks apart [◊] <ul style="list-style-type: none"> Healthy individuals <65 years old can extend the interval to 8 weeks[¶] 	One 50 mcg (0.25 mL red cap formulation or 0.5 mL blue cap formulation) dose 5 months following primary series [‡]	For individuals with moderately to severely immunocompromising conditions: <ul style="list-style-type: none"> One 50 mcg (0.25 mL red cap formulation) dose 4 months following the first booster dose 	<ul style="list-style-type: none"> Local injection site reactions Systemic symptoms (fevers, chills, fatigue, myalgias, headache) 	<ul style="list-style-type: none"> Anaphylaxis (approximately 2.8 per million doses) Myocarditis/pericarditis (approximate risk following primary series):^[5] <ul style="list-style-type: none"> For males 18 to 24 years old: 56 cases/million doses For males 25 to 29 years old: 24 cases/million doses For females of the same age group: 7 to 8 cases/million doses
		>50 years	Two 100 mcg (0.5 mL red cap formulation) doses 4 weeks apart [◊] <ul style="list-style-type: none"> Healthy individuals <65 years old can extend the interval to 8 weeks[¶] 	One 50 mcg (0.25 mL blue cap formulation) dose 5 months following primary series [‡]	One 50 mcg (0.25 mL blue cap formulation) dose 4 months following the first booster dose		



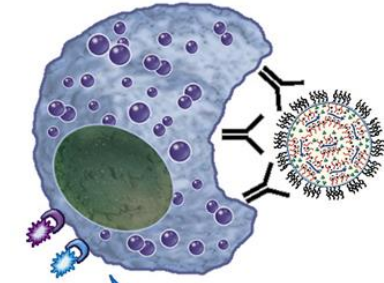
LNP component	Predicted Immunogenicity	µg/dose Pfizer-BioNtech	µg/dose Moderna
PEG-lipid	Preexisting Anti-PEG IgM, IgG and/or IgE	50 µg	Total lipid dose is 1930 µg
ionizable lipid	Pathogen-associated molecular pattern receptors	430 µg	
neutral lipid (DSPC)	Complement activation	90 µg	
cholesterol		200 µg	
mRNA	Pathogen-associated molecular pattern receptors and Factor XII activation	30 µg	100 µg





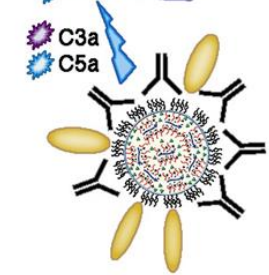
LNP component	Predicted Immunogenicity	µg/dose Pfizer-BioNtech	µg/dose Moderna
PEG-lipid	Preexisting Anti-PEG IgM, IgG and/or IgE	50 µg	Total lipid dose is 1930 µg
ionizable lipid	Pathogen-associated molecular pattern receptors	430 µg	
neutral lipid (DSPC)	Complement activation	90 µg	
cholesterol		200 µg	
mRNA	Pathogen-associated molecular pattern receptors and Factor XII activation	30 µg	100 µg

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1/2.800.000

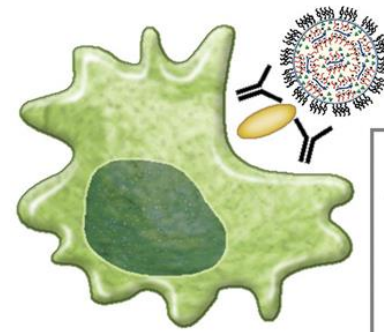


Preexisting Ab is disadvantageous

Preexisting anti-PEG IgE bound to mast cells leads to classical anaphylaxis



Activation of complement with or without preexisting anti-PEG IgM/IgG leads to CARPA or nonclassical anaphylaxis



Preexisting Ab is advantageous

C/IgM/IgG bound to LNP enhances endosomal uptake, mRNA translation of spike protein and MHC presentation of spike protein peptides by antigen-presenting cell

PubMed.gov

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Review > J Allergy Clin Immunol Pract. 2021 Oct;9(10):3546-3567. doi: 10.1016/j.jaip.2021.06.006. Epub 2021 Jun 18.

The Risk of Allergic Reaction to SARS-CoV-2 Vaccines and Recommended Evaluation and Management: A Systematic Review, Meta-Analysis, GRADE Assessment, and International Consensus Approach

FULL TEXT LINKS

ELSEVIER Full text

PMC Full text

ACTIONS

Cite Favorites

	CDC	EMA	PHE/ BSACI	NACI	AAAAI	ACAAI	ASCIA	CSACI	EAACI	WAO	ALLSA
Severe allergic reaction to prior dose of a COVID-19 vaccine	Red	Red	Red	Red	Red	Red	Red	Yellow	Red	Red	Red
Allergy to an excipient in the COVID-19 vaccine	Red	Red	Red	Red	Red	Red	Red	Yellow	Red	Red	Red
Severe reaction to an unrelated vaccine/injectable medication	Yellow	Grey	Green	Green	Green	Green	Yellow	Green	Green	Green	Yellow
Nonanaphylactic allergic reaction to prior dose of a COVID-19 vaccine	Red	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Yellow	Red	Yellow
Severe allergic reaction not due to a medication (eg, pollen, food, pet)	Green	Grey	Green	Green	Green	Green	Yellow	Green	Green	Green	Green
Excipient/vaccine testing recommended	Grey	Grey	Grey	Grey	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Yellow
Allergy consult recommended	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Can switch vaccine platform (mRNA->adenovirus vector) if reacted to first dose	Yellow	Grey	Yellow	Yellow	Yellow	Grey	Yellow	Grey	Yellow	Grey	Grey
Use in patients with mast cell disorders	Grey	Grey	Green	Grey	Grey	Yellow	Yellow	Grey	Grey	Yellow	Yellow

Legend:

- Red: No/contraindicated
- Yellow: Possibly/precaution
- Green: Yes/permitted
- Grey: Not mentioned

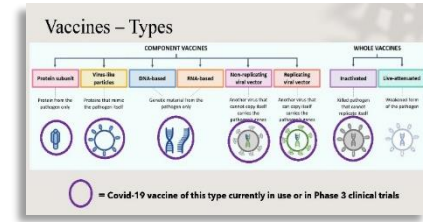
- n = 41,000,000 aşılama
- 26 çalışma
- Anafilaksi riski 7.91 vaka, her milyon aşı



mRNA aşıları myokardit yapar mı?



mRNA aşıları yan etki, olumsuz etki



Company/developer	Platform	Indicated ages	Primary series	First booster dose and interval*	Second booster dose and interval*†	Common side effects	Rare adverse effects
Pfizer/BioNTech	mRNA	5 to 11 years	Two 10 mcg (0.2 mL orange cap formulation) doses 3 weeks apart [§]	One 10 mcg (0.2 mL orange cap formulation) dose 5 months following the primary series.	Second booster dose not authorized	<ul style="list-style-type: none"> Local injection site reactions Systemic symptoms (fevers, chills, fatigue, myalgias, headache) 	<ul style="list-style-type: none"> Anaphylaxis (approximately 5 per million doses) Myocarditis/pericarditis (approximate risk following primary series):^[5] <ul style="list-style-type: none"> For males 12 to 16 years old: 71 cases/million doses For males 16 to 17 years old: 106 cases/million doses For males 18 to 24 years old: 52 cases/million doses For males 25 to 29 years old: 17 cases/million doses For females of the same age group: 2 to 11 cases/million doses
		12 to 50 years	Two 30 mcg (0.3 mL purple or gray cap formulation) doses 3 weeks apart [◊] <ul style="list-style-type: none"> Healthy individuals <65 years old can extend the interval to 8 weeks[¥] 	One 30 mcg (0.3 mL purple or gray cap formulation) dose 5 months following the primary series [‡]	For individuals with moderately to severely immunocompromising conditions: <ul style="list-style-type: none"> One 30 mcg (0.3 mL purple or gray cap formulation) dose 4 months following the first booster dose 		
		>50 years	Two 30 mcg (0.3 mL purple or gray cap formulation) doses 3 weeks apart [◊] <ul style="list-style-type: none"> Healthy individuals <65 years old can extend the interval to 8 weeks[¥] 	One 30 mcg (0.3 mL purple or gray cap formulation) dose 5 months following the primary series [‡]	One 30 mcg (0.3 mL purple or gray cap formulation) dose 4 months following the first booster dose		
Moderna	mRNA	18 to 50 years	Two 100 mcg (0.5 mL red cap formulation) doses 4 weeks apart [◊] <ul style="list-style-type: none"> Healthy individuals <65 years old can extend the interval to 8 weeks[¥] 	One 50 mcg (0.25 mL red cap formulation or 0.5 mL blue cap formulation) dose 5 months following primary series [‡]	For individuals with moderately to severely immunocompromising conditions: <ul style="list-style-type: none"> One 50 mcg (0.25 mL red cap formulation) dose 4 months following the first booster dose 	<ul style="list-style-type: none"> Local injection site reactions Systemic symptoms (fevers, chills, fatigue, myalgias, headache) 	<ul style="list-style-type: none"> Anaphylaxis (approximately 2.8 per million doses) Myocarditis/pericarditis (approximate risk following primary series):^[5] <ul style="list-style-type: none"> For males 18 to 24 years old: 56 cases/million doses For males 25 to 29 years old: 24 cases/million doses For females of the same age group: 7 to 8 cases/million doses
		>50 years	Two 100 mcg (0.5 mL red cap formulation) doses 4 weeks apart [◊] <ul style="list-style-type: none"> Healthy individuals <65 years old can extend the interval to 8 weeks[¥] 	One 50 mcg (0.25 mL red cap formulation or 0.5 mL blue cap formulation) dose 5 months following primary series [‡]	One 50 mcg (0.25 mL red cap formulation) dose 4 months following the first booster dose		

! Myokardit-perikardit

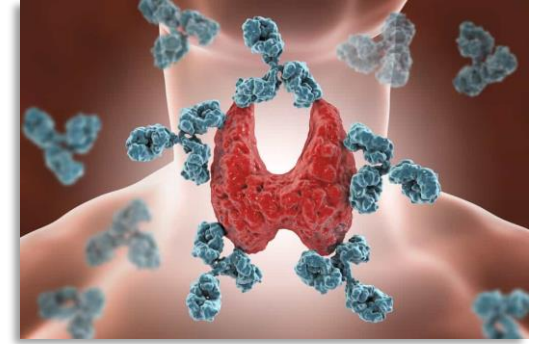
! Erkek cinsiyet

! Genç yaş

! <18 yaş



mRNA aşıları tiroidit ?

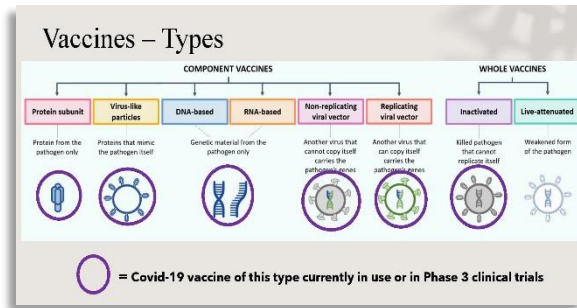


SARS-CoV-2 vaccine-associated subacute thyroiditis: insights from a systematic review

- ✓ Subakut tiroidit hastalığı hikayesi +
- ✓ Sistematik derleme – Metaanaliz
- ✓ 30 çalışma
- ✓ 3 vaka
- ✓ 10 gün takip
- ✓ TSH süpresyon %32
- ✓ T4 artış %26
- ✓ Anti-TPO %7,2
- ✓ Anti-Tg %8,2

Table 2 Comparison of demographic and clinical features according to different SARS-CoV-2 vaccine categories

No., %	mRNA vaccines 35, 70%	Non-mRNA vaccines		<i>p-value*</i>
		Viral vector vaccines ^a 9, 18%	Inactivated virus 6, 12%	
Sex F (No., %)	25, 71.4%	8, 88.9%	5, 83.3%	0.248
Age (median, IQR)	40.0, 34–44	47, 39–55	36, 34–38	0.473
European (No., %)	19, 54.3%	5, 55.6%	0	0.019
North American (No., %)	7, 20%	0	0	
Asian (No., %)	8, 22.9%	4, 44.4%	6, 100%	
Australian (No., %)	1, 2.9%	0	0	
After 1st dose (No., %)	20, 57%	8, 88.9%	2, 33.3%	0.701
After 2nd dose (No., %)	14, 40%	1, 11.1%	4, 66.7%	
After 3rd dose (No., %)	1, 3%	0	0	
Onset (days after vaccine shot—median, IQR)	9, 4–14	14, 10–14	7, 4–14	0.549
Neck pain (No., %)	26, 74.3%	8, 88.9%	6, 100%	0.123
Palpitations (No., %)	24, 68.6%	4, 44.4%	4, 66.7%	0.304
Fatigue (No., %)	13, 37.1%	2, 22.2%	4, 66.7%	0.849
Fever (No., %)	9, 25.7%	2, 22.2%	2, 33.3%	0.944
Weight loss (No., %)	4, 11.4%	2, 22.2%	4, 66.7%	0.021
Anxiety (No., %)	6, 17.1%	2, 22.2%	0	0.736
Baseline TSH suppression (No., %)	32, 91.3%	8, 88.9%	4, 66.7%	0.254
Baseline T4 increase (No., %)	26, 74.3%	8, 88.9%	3, 50%	0.944
(median fold change over ULN, IQR)	1.6, 1.4–1.9	1.3, 1.2–3.3	1.8, 1.7–2.7	0.971
Baseline T3 increase (No., %)	12, 54.5%	3, 60%	4, 66.7%	0.618
(median fold change over ULN, IQR)	1.5, 1.3–2.1	1.4, 1.1–2.7	1.9, 1.6–2.6	0.499
TPOAb	7, 21.2%	1, 12.5%	0	0.276
TgAb	8, 28.6%	2, 40%	0	0.597
Baseline CRP increase (No., %)	19, 90.5%	5, 83.3%	4, 66.7%	0.233
(median fold change over ULN, IQR)	8.4, 4.6–18.4	5.8, 5.7–6.9	10.9, 6.0–15.5	0.699
Baseline ESR increase (No., %)	19, 90.5%	5, 83.3%	5, 83.3%	0.545
(median fold change over ULN, IQR)	3.1, 2.2–4.4	2.8, 1.9–3.2	3.9, 2.7–6.7	0.885



Guillain-Barré sendromu hangi aşı?

Side effect



Generally expected effect
(However, some side effects can be unexpected)

Adverse effect



Generally unexpected effect
(Comes as an unpleasant surprise)

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covid 19 mRNA guillain barre

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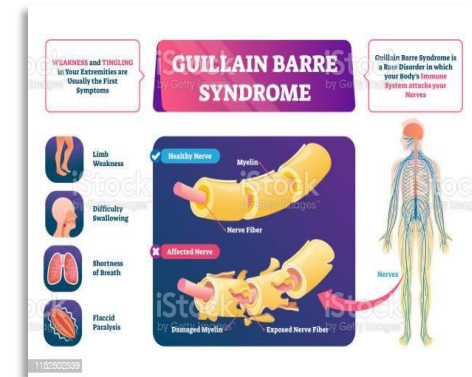
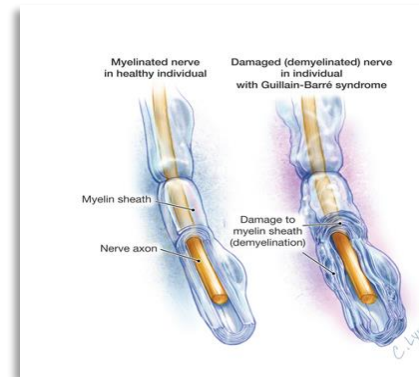
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1.1/100.000

Otoimmün

Periferel sinir



Guillain-Barré syndrome is infrequent among recipients of the BNT162b2 mRNA COVID-19 vaccine

- Meksika Sağlık Bakanlığı kohort
- 3,890,250 aşılı kişi
- **Aşı sonrası 30 gün takip**
- **İlk doz aşı sonrası 0,18/100.000**
- 2.doz aşı sonrası vaka yok
- **Kısıtlılık 1: 30 gün**
- **Kısıtlılık 2: Aşısız COVID 19 Guillain-Barré syndrome insidans?**



> JAMA Neurol. 2021 Nov 1;78(11):1409-1411. doi: 10.1001/jamaneurol.2021.3287.

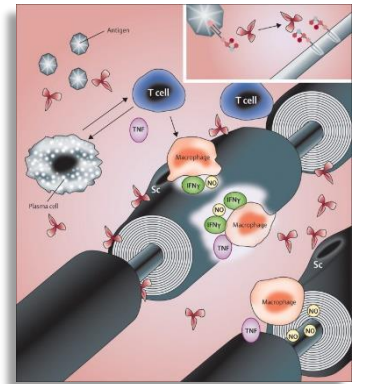
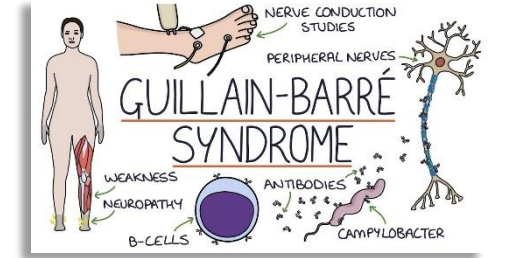
FULL TEXT LINKS

FULL TEXT
JAMA Neurology

Rate of Recurrent Guillain-Barré Syndrome After mRNA COVID-19 Vaccine BNT162b2

ACTIONS

- İsrail, Maccabi
- 2.500.000 Retrospektif Kohort
- ICD kod Guillain-Barré sendrom
- 702 vaka (2000-2020 yıl)
- 579 tek doz, 539 çift doz
- 5 hasta nörolojik komp.
 - (2 parestezi, 1 titreme süresinde uzama, 1 nöbet, 1 bacakta güçsüzlük- parestezi)



Filters applied: 5 years. Clear all

> Nat Med. 2021 Dec;27(12):2144-2153. doi: 10.1038/s41591-021-01556-7. Epub 2021 Oct 25.

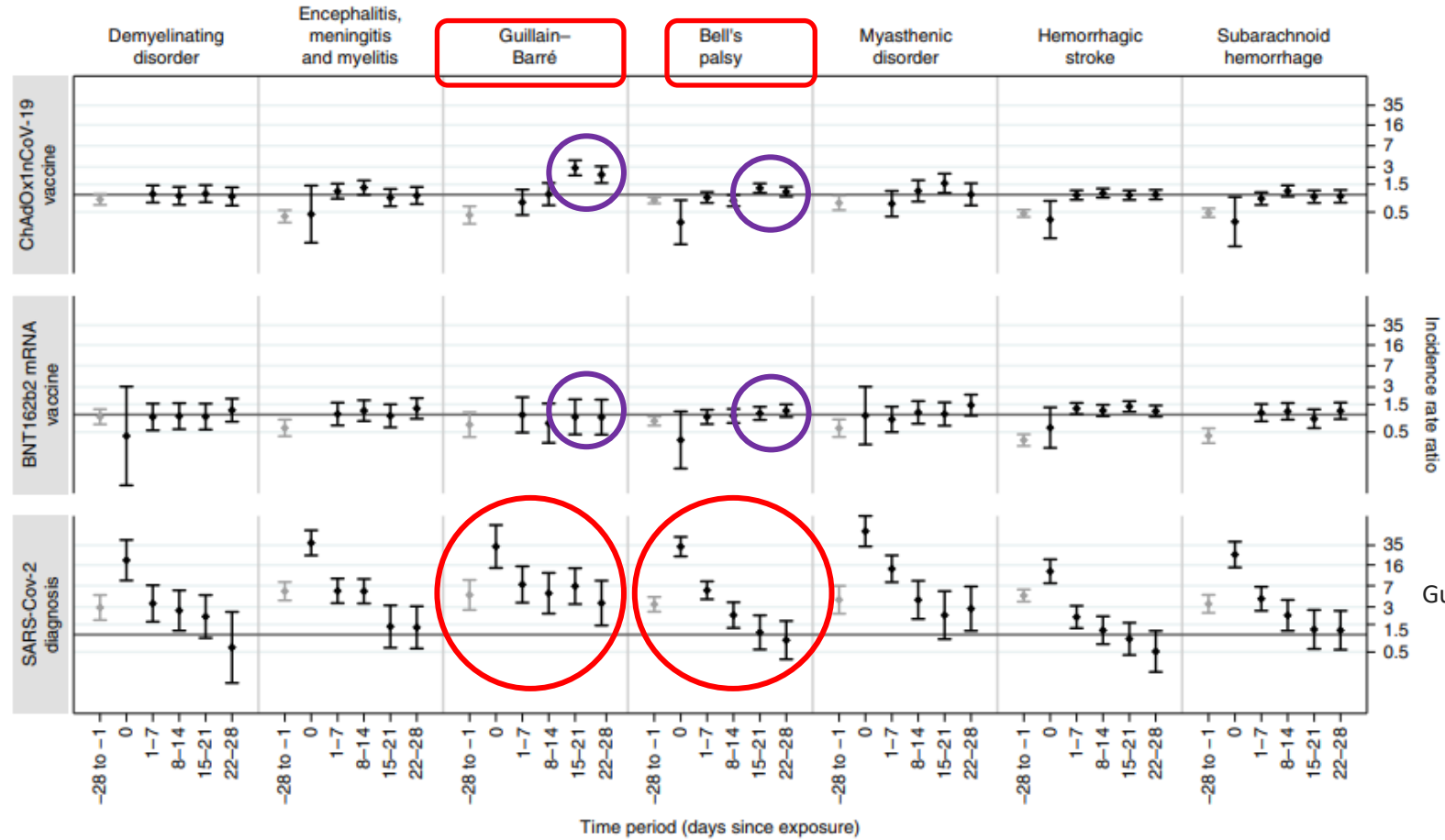
FULL TEXT LINKS



Neurological complications after first dose of COVID-19 vaccines and SARS-CoV-2 infection

GBS incidence rate ratio (IRR), 2.90

Bell's palsy IRR, 1.29



Guillain-Barré syndrome IRR, 5.25

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< Geri

Topic Outline

SUMMARY AND RECOMMENDATIONS

INTRODUCTION

GENERAL PRINCIPLES

Pace of COVID-19 vaccine development

Calculation of vaccine efficacy

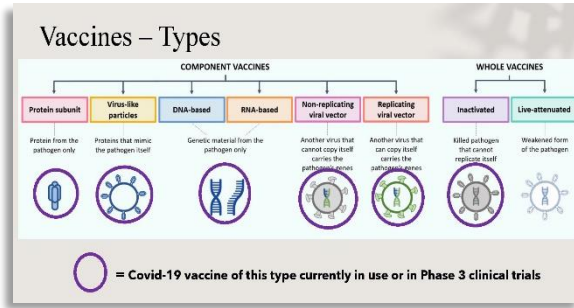
COVID-19: Vaccines

Authors: Kathryn M Edwards, MD, Walter A Orenstein, MD
Section Editor: Martin S Hirsch, MD
Deputy Editor: Allyson Bloom, MD

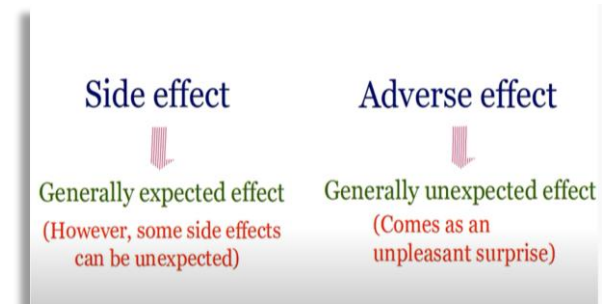
Contributor Disclosures

All topics are updated as new evidence becomes available and our peer review process is complete.
 Literature review current through: **Apr 2022**. | This topic last updated: **May 24, 2022**.

Name	Company/developer	Platform	Indicated ages	Primary series	First booster dose and interval*	Second booster dose and interval*¶	Common side effects	Rare adverse effects
Ad26.COV2.S ^Δ	Janssen/Johnson & Johnson	Replication-incompetent adenovirus 26 vector	18 years and older	One 5×10 ¹⁰ viral particles (0.5 mL) dose [◇]	One 5×10 ¹⁰ viral particles (0.5 mL) dose 2 months following primary series [‡]	Second Ad26.COV2.S booster dose not authorized; however certain individuals who received Ad26.COV2.S are eligible for a second booster with mRNA vaccine [¶]	<ul style="list-style-type: none"> Local injection site reactions Systemic symptoms (fevers, chills, fatigue, myalgias, headache) 	<ul style="list-style-type: none"> Thrombotic complications associated with thrombocytopenia (approximate risk): <ul style="list-style-type: none"> For females 30 to 39 years old: 12.4 cases/million doses For females 40 to 49 years old: 9.4 cases/million doses For females in other age ranges and males: 1.3 to 4.7 cases/million doses Guillain-Barre syndrome (approximately 8 cases/million doses)



Adenovirüs vektör aşıları başka olumsuz etkisi var mı?



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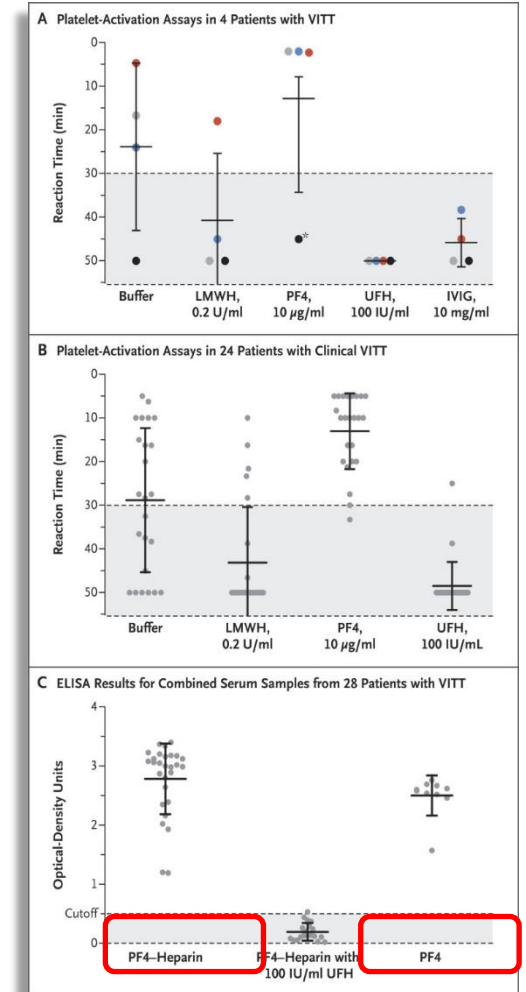
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Thrombotic Thrombocytopenia after ChAdOx1 nCov-19 Vaccination

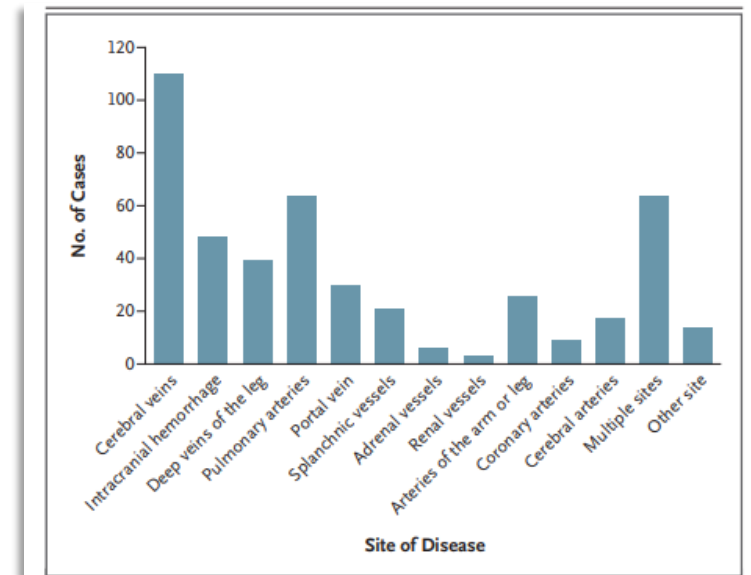
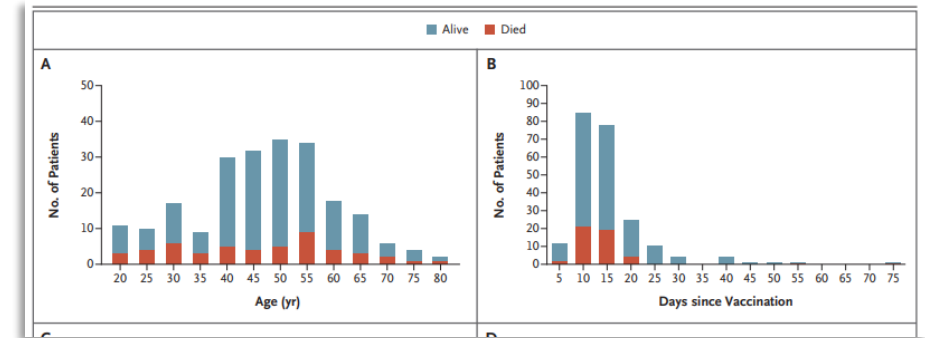
- **Almanya ve Avusturya**, ChAdOx1 nCov-19, AstraZeneca
- 11 hasta trombositopeni / trombosiz
- ELISA Platelet faktör 4 (PF4)+ Platelet aktivasyon testleri
- 9/11 kadın
 - 9 serebral venöz trombüs
 - 3 splenik ven trombüs
 - 3 pulmoner trombüs
 - 3 diğer sistem
 - 5 hasta DIC
 - 6 hasta ex

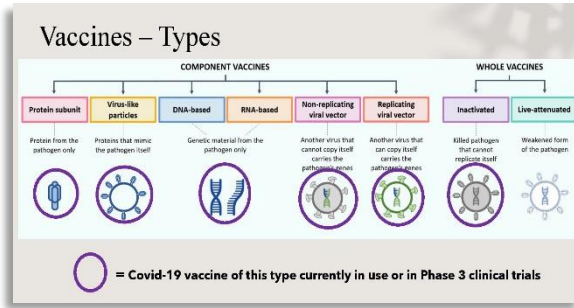


Clinical Features of Vaccine-Induced Immune Thrombocytopenia and Thrombosis

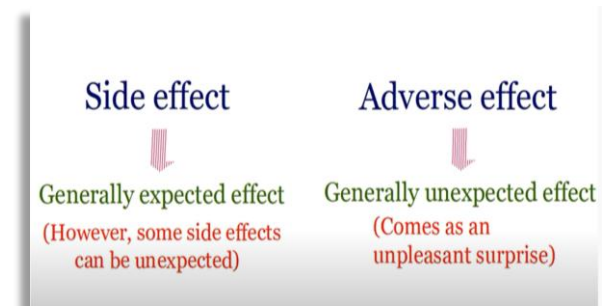


- İngiltere
- Prospektif kohort
- ChAdOx1 nCoV-19,
- VITT (Vaccine-induced immune thrombocytopenia and thrombosis)
- 294 hasta, > kadın,
- 190/220 hasta anti-PF4 +
- 49 ex





Yan etki açısından en güvenli aşı?





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Outline

[Summary](#)[Introduction](#)[Methods](#)[Results](#)[Discussion](#)[Data sharing](#)[Declaration of interests](#)[Supplementary Material](#)[References](#)[Show full outline](#)

THE LANCET

Volume 399, Issue 10319, 1–7 January 2022, Pages 36–49



Articles

Immunogenicity, safety, and reactogenicity of heterologous COVID-19 primary vaccination incorporating mRNA, viral-vector, and protein-adjuvant vaccines in the UK (Com-COV2): a single-blind, randomised, phase 2, non-inferiority trial

- ✓ Homolog aşılama
- ✓ Heterolog aşılama

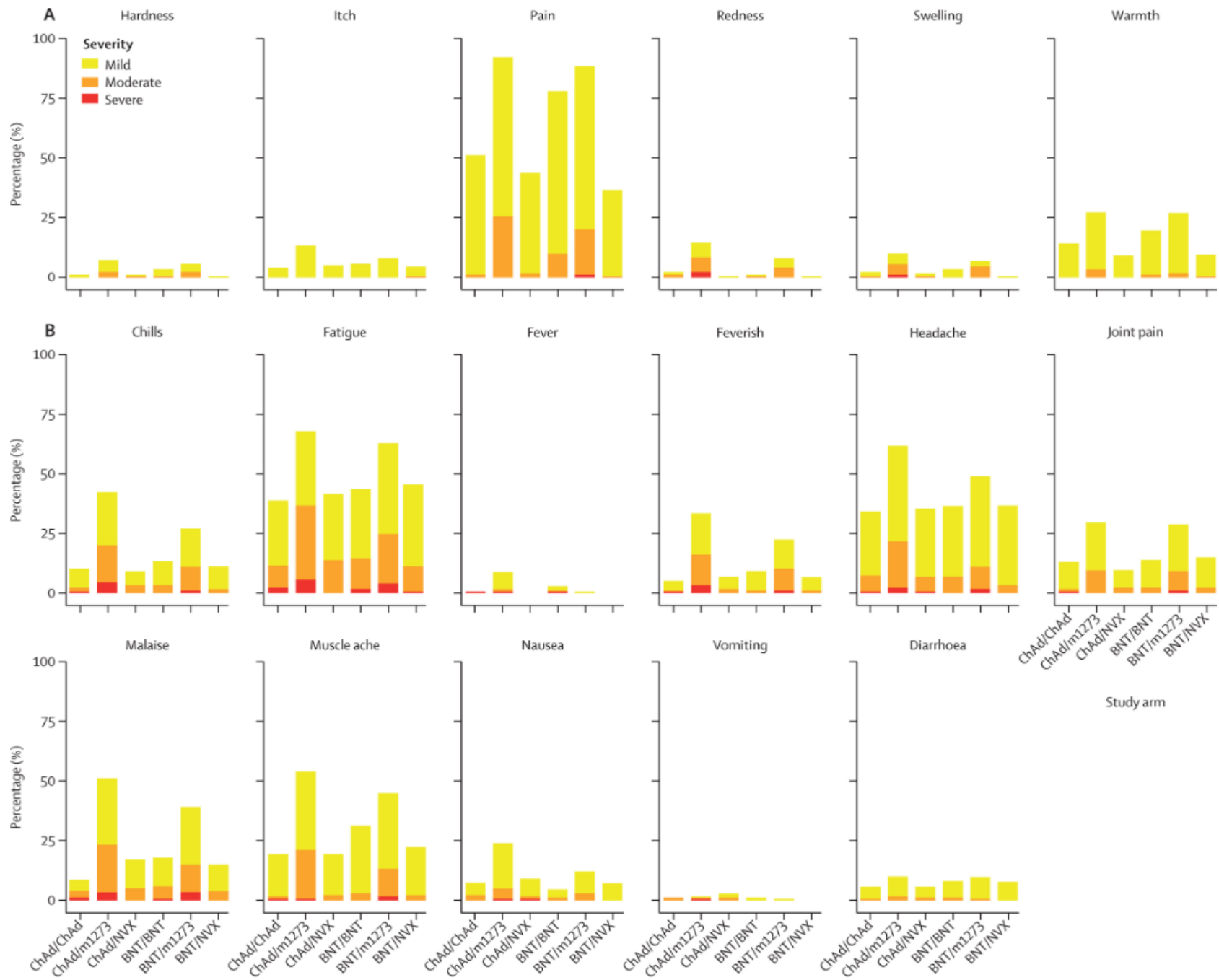
- ✓ 50 yaş ve >

- ✓ 1072

- ✓ BNT=BNT162b2 vaccine, Pfizer–BioNTech
- ✓ m1273=mRNA–1273 vaccine, Moderna

- ✓ ChAd=ChAdOx1 nCoV-19 vaccine, AstraZeneca

- ✓ NVX=NVXCoV2373 vaccine, Novavax.



Safety of the BNT162b2 mRNA Covid-19 Vaccine in a Nationwide Setting

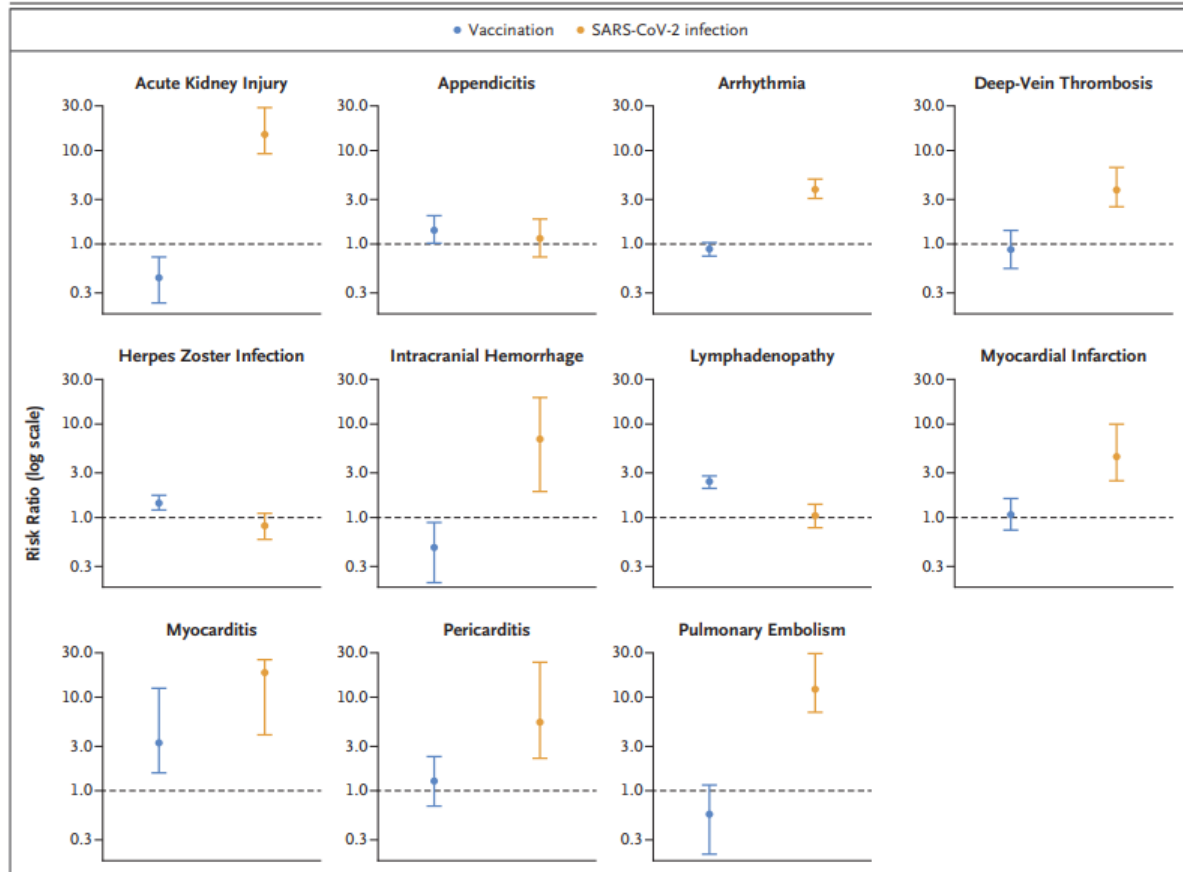


Figure 3. Risk Ratios for Adverse Events after Vaccination or SARS-CoV-2 Infection.

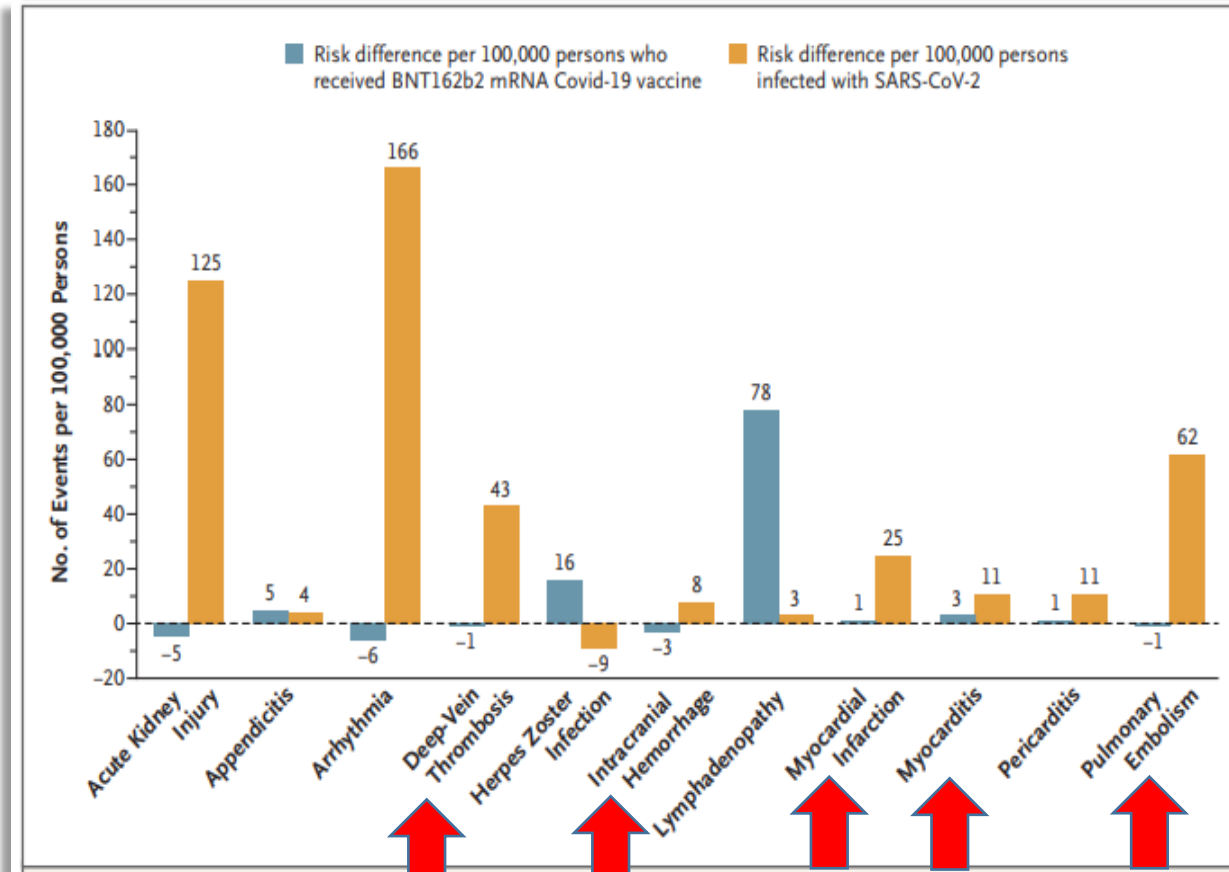
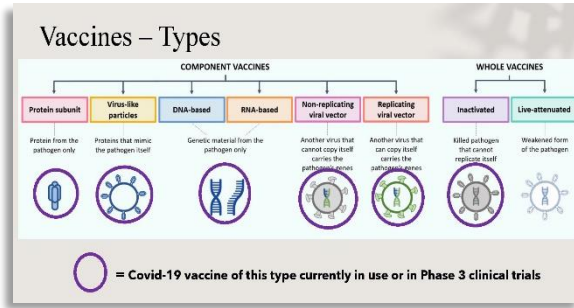
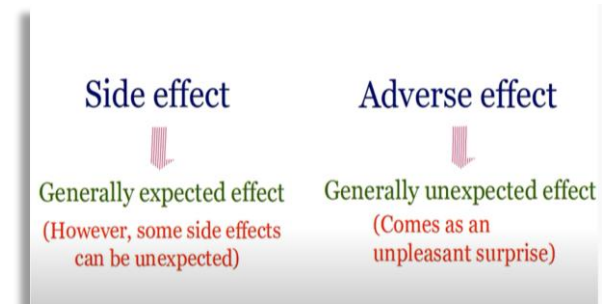


Figure 4. Absolute Excess Risk of Various Adverse Events after Vaccination or SARS-CoV-2 Infection.



İnaktive edilmiş COVID 19 aşıları



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inactivated COVID-19 vaccine adverse effects

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Page 1 of 18

Clinical Trial > Lancet Infect Dis. 2021 Jan;21(1):39-51. doi: 10.1016/S1473-3099(20)30831-8.
Epub 2020 Oct 15.

Safety and immunogenicity of an inactivated SARS-CoV-2 vaccine, BBIBP-CorV: a randomised, double-blind, placebo-controlled, phase 1/2 trial

28 gün takip
Hafif, orta olumsuz etki (adverse effect)
Ağır yok

> Allergol Immunopathol (Madr). 2022 May 1;50(3):132-137. doi: 10.1016/j.iac.2014.04.004.
eCollection 2022.

Safety of an inactivated COVID-19 vaccine in patients with - wheat-dependent exercise-induced anaphylaxis

72 WDEIA hastası & 730 sağlıklı

1.Doz %4,2 & %0,5

2.Doz %1,4 & %0

The potential neurological effect of the COVID-19 vaccines: A review

Vaccine platform	Candidate	Developer	Number of doses	Outcome published in Humans	Published sample size	Phase 3 trial Sample size	Severe adverse effect	Neurological adverse effect
Inactivated	CoronaVac	Sinovac	2	Phase 1/2 in The Lancet Infectious Diseases 13	743 (143 + 600)	13,060 in Brazil; 13000 in Turkey; 1620 in Indonesia	Phase 1: one case of urticaria 48 h after the first dose of in the 6 µg group in the days 0 and 14 vaccination cohort	None
Inactivated	No name announced	Wuhan Institute of Biological Products/Sinopharm	2	Phase 1 and 2 in JAMA 14	320 (96 + 224)	15,000 in UAE ^a ; 600 in Morocco;	Phase 1: one case with swelling and pain of left knee joint and subcutaneous hematoma and another case acute appendicitis in high dose group Phase 2: one case of fever (39.0°), another case of skin laceration from left eyebrow arch to hair source, multiple skin contusion at nasal back.	None
Inactivated	BBIBP-CorV	Beijing Institute of Biological Products/Sinopharm	2	Phase 1/2 in The Lancet Infectious Diseases 15	640 (192 + 448)	15,000 in UAE ^a ; 3000 in Argentina	Phase 2: One placebo recipient in the 4 µg days 0 and 21 group reported grade 3 fever,	None
Inactivated	Covaxin	Bharat Biotech	2	Bharat Biotech statement.	1100	26,000 in India	NA	NA

SARS-CoV-2 vaccine-associated subacute thyroiditis: insights from a systematic review

Table 2 Comparison of demographic and clinical features according to different SARS-CoV-2 vaccine categories

No., %	mRNA vaccines 35, 70%	Non-mRNA vaccines		<i>p</i> -value*
		Viral vector vaccines ^a 9, 18%	Inactivated virus 6, 12%	
Sex F (No., %)	25, 71.4%	8, 88.9%	5, 83.3%	0.248
Age (median, IQR)	40.0, 34–44	47, 39–55	36, 34–38	0.473
European (No., %)	19, 54.3%	5, 55.6%	0	0.019
North American (No., %)	7, 20%	0	0	
Asian (No., %)	8, 22.9%	4, 44.4%	6, 100%	
Australian (No., %)	1, 2.9%	0	0	
After 1st dose (No., %)	20, 57%	8, 88.9%	2, 33.3%	0.701
After 2nd dose (No., %)	14, 40%	1, 11.1%	4, 66.7%	
After 3rd dose (No., %)	1, 3%	0	0	
Onset (days after vaccine shot—median, IQR)	9, 4–14	14, 10–14	7, 4–14	0.549
Neck pain (No., %)	26, 74.3%	8, 88.9%	6, 100%	0.123
Palpitations (No., %)	24, 68.6%	4, 44.4%	4, 66.7%	0.304
Fatigue (No., %)	13, 37.1%	2, 22.2%	4, 66.7%	0.849
Fever (No., %)	9, 25.7%	2, 22.2%	2, 33.3%	0.944
Weight loss (No., %)	4, 11.4%	2, 22.2%	4, 66.7%	0.021
Anxiety (No., %)	6, 17.1%	2, 22.2%	0	0.736
Baseline TSH suppression (No., %)	32, 91.3%	8, 88.9%	4, 66.7%	0.254
Baseline T4 increase (No., %)	26, 74.3%	8, 88.9%	3, 50%	0.944
(median fold change over ULN, IQR)	1.6, 1.4–1.9	1.3, 1.2–3.3	1.8, 1.7–2.7	0.971
Baseline T3 increase (No., %)	12, 54.5%	3, 60%	4, 66.7%	0.618
(median fold change over ULN, IQR)	1.5, 1.3–2.1	1.4, 1.1–2.7	1.9, 1.6–2.6	0.499
TPOAb	7, 21.2%	1, 12.5%	0	0.276
TgAb	8, 28.6%	2, 40%	0	0.597

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Adverse events report of inactivated COVID-19 vaccine from 4040 healthcare workers

Selma Tosun ¹, Hülya Ozkan Ozdemir ¹, Esin Erdogan ², Seniz Akcay ³, Murat Aysin ⁴, Neslihan Eskut ⁵, Pinar Ortan ⁵, Burak Eskut ⁶

	1st dose (<i>n</i> = 4040)	2nd dose (<i>n</i> = 3969)	p value
Pain in the vaccinated arm, n (%) [*]	1530 (37.9)	1493 (37.6)	0.814 ¹
Pain at the injection site	189 (4.7)	187 (4.7)	0.943 ¹
Joint pain	71 (1.8)	83 (2.1)	0.278 ¹
Swelling	47 (1.2)	51 (1.3)	0.620 ¹
Redness	7 (0.2)	12 (0.3)	0.235 ¹
Abscess	15 (0.4)	20 (0.5)	0.368 ¹
Lymph Node Swelling at the arm			

Adverse events report of inactivated COVID-19 vaccine from 4040 healthcare workers

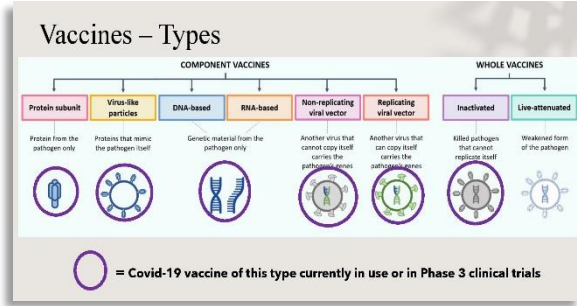
Selma Tosun ¹, Hülya Ozkan Ozdemir ¹, Esin Erdogan ², Seniz Akcay ³, Murat Aysin ⁴, Neslihan Eskut ⁵, Pinar Ortan ⁵, Burak Eskut ⁶

	1st dose (n = 4040)	2nd dose (n = 3969)	p value
General findings, n (%)*	869 (21.5)	669 (16.8)	<0.001 ¹
Headache	728 (18.0)	598 (15.0)	0.001 ¹
Fatigue	181 (4.5)	115 (2.8)	<0.001 ¹
Subfebrile fever (<38°C)	13 (0.3)	19 (0.5)	0.266 ¹
Fever (>38°C)	71 (1.8)	59 (1.5)	0.337 ¹
Loss of appetite	26 (0.6)	43 (1.1)	0.033 ¹
Increase of appetite	38 (0.9)	28 (0.7)	0.245 ¹
Loss of taste	13 (0.3)	18 (0.4)	0.342 ¹
Loss of smell	12 (0.3)	24 (0.6)	0.039 ¹
Lymph node swelling other than the vaccinated arm			
Finding related to musculoskeletal system n (%)*	356 (8.8)	328 (8.2)	0.380 ¹
Back pain	340 (8.4)	298 (7.5)	0.133 ¹
Joint pain other than the vaccinated arm	189 (4.7)	174 (4.3)	0.526 ¹
Pain around scapula	12 (0.3)	18 (0.4)	0.252 ¹
Joint swelling			
Findings related to gastrointestinal system, n (%)*	253 (6.3)	192 (4.8)	0.005 ¹
Nausea	99 (2.5)	83 (2.1)	0.282 ¹
Diarrhae	86 (2.1)	79 (2.0)	0.663 ¹
Abdominal pain	35 (0.9)	20 (0.5)	0.049 ¹
Vomiting			
Findings related to cardiovascular System, n (%)*	160 (4.0)	147 (3.7)	0.549 ¹
Palpitation	128 (3.2)	114 (2.8)	0.439 ¹
Hypertension	129 (3.2)	100 (2.5)	0.070 ¹
Tachycardia	64 (1.6)	66 (1.6)	0.780 ¹
Arrythmia	61 (1.5)	39 (1.0)	0.033 ¹
Hypotension			

Adverse events report of inactivated COVID-19 vaccine from 4040 healthcare workers

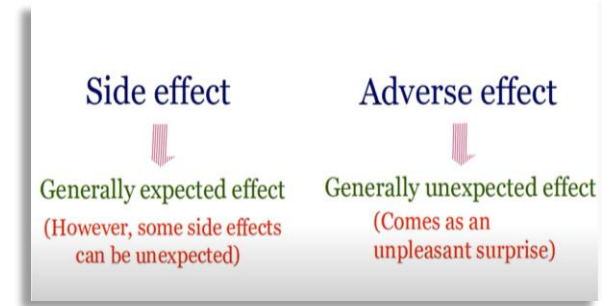
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Neurological findings, n (%)*			
Drowsiness	386 (9.6)	326 (8.2)	0.035 ¹
Dizziness	165 (4.1)	136 (3.4)	0.121 ¹
Weakness of the arms	122 (3.0)	109 (2.7)	0.464 ¹
Weakness of the legs	116 (2.9)	102 (2.5)	0.407 ¹
Numbness of the arms	120 (3.0)	94 (2.3)	0.094 ¹
Numbness of the face	77 (1.9)	44 (1.1)	0.003 ¹
Numbness of the body	25 (0.6)	33 (0.8)	0.262 ¹
Tingling	59 (1.5)	59 (1.5)	0.922 ¹
Neuropathic pain	39 (1.0)	46 (1.1)	0.397 ¹
Walking difficulty	25 (0.6)	24 (0.6)	0.935 ¹
Insomnia	50 (1.2)	70 (1.7)	0.052 ¹
Findings related to endocrine system, n (%)*			
Menstruation irregularity	8 (0.8)	6 (0.6)	0.594 ¹
Decrease milk in breastfeeding mother	1 (0.1)	3 (0.3)	0.317 ¹
Findings related to hypersensitivity, n (%)*			
Itching	70 (1.7)	67 (1.7)	0.877 ¹
Respiratory distress	53 (1.3)	39 (1.0)	0.167 ¹
Rash	35 (0.9)	29 (0.7)	0.495 ¹
Syncope	10 (0.2)	7 (0.2)	0.489 ¹
Anaphylaxis	1 (0.025)	1 (0.025)	0.990 ¹



COVID-19 vaccine side effect vs. illness symptoms

Likely post-vaccine side effect	Possible onset of illness
Fever (starting less than 24-48 hours)	Cough
Fatigue	Shortness of breath
Headache	Sore throat/runny nose
Chills	Change in smell/taste
Muscle or joint pain	Fever (starting longer than 24-48 hours)



Aşı Yan Etkileri Kanıt mı, Kanaat mi?

Dr. R. Aytaç ÇETİNKAYA