

## Ergebnisse aus IMMUNEBRIDGE für Modellierungskonsortien

Stand 31.07.22

Daten aus folgenden Bestandskohorten konnten eingeschlossen werden:

*Tabelle 1 Zum 15.07. eingeschlossene Teilnehmer in teilnehmenden Bestandskohorten*

	Erhebung IB finanziert	Art der Kohorte	Regionen	N aktuell	Vorhandene Untersuchungen	Vorhandene Datenitems	Einschränkungen
MuSPAD	Nein	Populationsbasiert von 2020, Einwohnermeldeämter	Magdeburg	1043	N-Ak, S-AK , S-IGRA	MDS vorhanden, Vorbefunde aus 2 Erhebungen	>18
MuSPAD	Nein	Populationsbasiert von 2020, Einwohnermeldeämter	Aachen	870	N-Ak, S-AK, S-IGRA	MDS vorhanden, Vorbefunde aus 2 Erhebungen	>18
MuSPAD	Ja, teilweise	Populationsbasiert von 2020, Einwohnermeldeämter	Hannover	1111	N-Ak, S-AK	MDS vorhanden, Vorbefunde aus 1 Erhebung	>18
NAKO	Nein	Populationsbasiert von 2016	18 Standorte Deutschlandweit	2557	N-Ak, S-AK	Alter, Sex	>18
Heinsberg	Nein		Heinsberg	579	N-Ak, S-AK	Alter, Sex, Vorbefunde aus 4 Erhebungen	
STAAB	Nein	Populationsbasiert	Würzburg	639	N-Ak, S-AK	MDS vorhanden, Vorbefunde aus 2 Erhebungen	>18
Dresden	Ja	Schulbasiert	Dresden	77	N-Ak, S-Ak	MDS vorhanden	12-17
Total				6886			

## Charakteristika der Teilnehmer

		MuSPAD	NAKO	Heinsberg	STAAB	Dresden	Total
<b>Total</b>		<b>3025</b>	<b>2619</b>	<b>1434</b>	<b>660</b>	<b>76</b>	<b>6886</b>
Sex	Female	1820 (60,2%)	1353 (51,7%)	764 (53,5%)	258 (53,2%)	59 (67,8%)	3764 (56,1%)
	Male	1205 (39,8%)	1263 (48,3%)	665 (64,5%)	227 (46,8%)	28 (32,2%)	2943 (43,9%)
Age, mean							
	0-4			1 (0,2%)			1 (0,02%)
	5-11			14 (2,4%)			14(0,2%)
	12-17			15 (2,6%)		76 (100%)	91 (1,4%)
	18 - 29	123 (4,1%)	83 (3,2%)	58 (10%)			264 (3,9%)
	30-34	158 (5,2%)	140 (5,4%)	28 (4,8%)			324 (4,8%)
	35-39	143 (4,7%)	124 (4,7%)	34 (5,9%)	7 (1,4%)		304 (4,5%)
	40-49	349 (11,5%)	335 (12,8%)	55 (9,2%)	63 (13%)		789 (11,8%)
	50-59	765 (25,3%)	741 (28,3%)	131 (22,7%)	138 (28,5%)		1749 (26,1%)
	60-64	382 (12,6%)	393 (15%)	68 (11,8%)	80 (16,5%)		914 (13,6%)
	65-79	945 (31,2%)	803 (30,7%)	140 (24,6%)	188 (38,8%)		2046 (30,5)
	>80	160 (5,3%)		34 (5,8%)	9 (1,9%)		203(3,1%)
Education (of parents for <18)	Higher education certificate	1283 (59,4%)			234 (48,3%)	62 (74,2%)	1682 (51%)
	10 <sup>th</sup> grade	512 (23,7%)			150 (30,9%)	13 (15,7%)	744 (22,6%)
	9 <sup>th</sup> grade	165 (7,6%)			92 (19%)		400 (12,1%)
	No certificate	5 (0,2%)			4 (0,8%)		232 (7%)
	Other	194 (9%)			5 (1%)	6 (7,2%)	236 (7,2%)
Comorbidities							
	Hypertension	769 (35,4%)			252 (52%)		1266 (38,1%)

	Diabetes	138 (6,3%)			43 (8,9%)		223 (6,7%)
	Cardiovascular	287 (13,2%)			125 (26%)		370 (13%)
	Lung	208 (9,6%)			70 (14,4%)		348 (10.5%)
	Immunodeficiency	140 (6,4%)			14 (2,9%)		189 (5,7%)
	Cancer with Chemotherapy	64 (2,9%)			24 (5%)		114 (3,4%)
Flu vaccination		1305, (60%)			258 (56,3%)		1968 (59%)
Smallpox vaccination		792, 36,4%					

### Ergebnisse Antikörperuntersuchungen und IGRA

[illegible]

	Hypertension	1364, 99,4%	34,2%	200, 61,7%					98,8%, 239	89, 36,8%	99,2%	98,3- 99,7	32,5%	29,4- 35,7	55,7%	60,8- 68,4
	Diabetes	131, 99,24%	36, 27,1%	34, 48,6%					38, 97,4%	11, 28,2%	98,3%	92- 99,7	26,7%	19,9- 34,8	44,9%	32- 58,3
	Cardiovascular	277, 99,6%	92, 36,4%	73, 59,8%					118, 100%	45, 38,1%	99,8	98,9- 99,9	30,2%	24,5- 36,7	57%	46- 66,8
	Cancer	62 100%	20, 32,3%	11, 55%					23, 95,8%	8, 33,3%	99,4%	98,9- 99,6	29,2%	20- 40%	45,5%	24- 68,6
	Lung Disease	197, 99,5%	62, 31,3%	48, 51,6%					70, 100%	35, 50%	99,5%	97,9- 99,9	34%	28-41	52%	40- 63,5
	Immunesuppresion	136, 99,3%	48, 35%	28, 62,2%					13, 100%	6, 46,2%	99,2%	97- 99,8	31,8	24,7- 39	54,9%	37-71

## Impfungen und Infektionen

[illegible]

### Kombinierter Endpunkt

	<u>Vaccinated</u>	<u>Infected</u>	<u>Ak-S</u>	<u>Ak-N</u>	<u>IGRA</u>		
	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>	<u>+</u>		
	<u>+</u>	<u>+</u>	<u>+</u>	<u>-</u>	<u>-</u>		
	<u>+</u>	<u>-</u>	<u>+</u>	<u>-</u>	<u>+</u>		
	<u>+</u>	<u>-</u>	<u>+</u>	<u>-</u>	<u>-</u>		
	<u>+</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>		
	<u>-</u>	<u>+</u>	<u>-</u>	<u>+</u>	<u>+</u>		
		<u>+</u>	<u>-</u>	<u>+</u>	<u>-</u>		
		<u>+</u>	<u>-</u>	<u>-</u>	<u>-</u>		

IGRAs:

## Survey: Logistic regression

Number of strata	=	2	Number of obs	=	933
Number of PSUs	=	933	Population size	=	956.800008
			Design df	=	931
			F( 21, 911)	=	4.30
			Prob > F	=	0.0000

igra_qual	Odds Ratio	Linearized Std. Err.	t	P> t	[95% Conf. Interval]	
sex						
female	1	(base)				
male	.5900633	.1132851	-2.75	0.006	.4048232	.860066
age_group						
18-29	1	(base)				
30-34	1.143775	.5151073	0.30	0.766	.4726032	2.768117
35-39	1.230601	.5906984	0.43	0.666	.4797351	3.156696
40-49	1.695841	.7558881	1.18	0.236	.7071063	4.067106
50-59	1.320489	.5302689	0.69	0.489	.6004442	2.904001
60-64	.9269661	.4105418	-0.17	0.864	.3886749	2.210758
65-79	.4970342	.2001179	-1.74	0.083	.2255412	1.095334
>80	.3221606	.1498824	-2.43	0.015	.1292834	.8027903
n_year_pos1						
no infection	1	(base)				
2020	1	(empty)				
2021	1.918242	1.68512	0.74	0.459	.3421166	10.75555
2022	4.912321	1.414738	5.53	0.000	2.791409	8.644701
year unclear	1	(empty)				
vaccinated						
no vaccination	1	(base)				
first vaccination	.6648114	.7907554	-0.34	0.732	.0644058	6.86234
second vaccination	5.920492	3.35009	3.14	0.002	1.95021	17.97357
third vaccination	15.20719	7.960612	5.20	0.000	5.443578	42.48282
fourth vaccination	15.03571	9.08423	4.49	0.000	4.593863	49.21186
education						
Abitur	1	(base)				
Realschule	.8043234	.1927358	-0.91	0.364	.5025697	1.287257
Hauptschule	.8476226	.2732482	-0.51	0.608	.4502393	1.595738
Kein Schulabschluß	1	(empty)				
Anderes	.7912043	.2864419	-0.65	0.518	.3887986	1.610099
hypertension						
no hypertension	1	(base)				
hypertenstion	1.050832	.2290703	0.23	0.820	.6850763	1.611862
cardiovascular						
no cardiovascular disease	1	(base)				
cardiovascular disease	1.303535	.3493774	0.99	0.323	.7703426	2.205775
diabetes						
no diabetes	1	(base)				
diabetes	.7037337	.2127783	-1.16	0.246	.388783	1.273824
lung						
no chronic lung disease	1	(base)				
chronic lung disease	.5572165	.1673371	-1.95	0.052	.3090778	1.00457
_cons	.1963324	.1233873	-2.59	0.010	.0571938	.6739618



Über die Zeit

Nucleocapsid- Ak

Spike-AK

Infektionen

Impfungen