Analysis of the included studies

Contents

Human vaccine-preventable diseases

Collaboration types (aggregated)

Table 1: Number of studies per collaboration type (Human VPDs)

collab_type	n
purely_academic	56.1% (128)
mixed	43.9% (100)
Total	100.0% (228)

Locations studied

Real versus hypothetical

Table 2: Number of studies per location type

location_type	n
real	78.6% (195)
none	21.4% (53)
Total	100.0% (248)

Larger than one country

Table 3: Number of studies per location larger than one country

country_studied	n
west_africa	47.4% (9)
global	36.8% (7)
northern_hemisphere	5.3% (1)
southeast_asia	5.3% (1)
who_southeast_asia_region	5.3% (1)
Total	100.0% (19)

Countries studied

Table 4: Number of studies per country

country_studied	num_of_studies
US	21.6% (38)
CN	10.8% (19)
CA	6.2% (11)
LR	5.7% (10)
HK	5.1% (9)
MX	5.1% (9)
GB	2.8% (5)
SL	2.8% (5)
BR	2.3% (4)
GN	2.3% (4)
HT	2.3% (4)
JP	2.3% (4)
NL	2.3% (4)
NO	2.3% (4)
IL	1.7% (3)
NG	1.7% (3)
TW	1.7% (3)
DK	1.1% (2)
IN	1.1% (2)
IT	1.1% (2)
LY	1.1% (2)
NE	1.1% (2)
SG	1.1% (2)
ZW	1.1% (2)
AO	0.6% (1)
AU	0.6% (1)
BE	0.6% (1)
BF	0.6% (1)
CD	0.6% (1)
CO	0.6% (1)
CV	0.6% (1)
ET	0.6% (1)
FO	0.6% (1)
FR	0.6% (1)
GR	0.6% (1)
HU	0.6% (1)
IS	0.6% (1)
NP	0.6% (1)
PH	0.6% (1)
PT	0.6% (1)
SD	0.6% (1)
SE	0.6% (1)
TD	0.6% (1)
TZ	0.6% (1)
VE	0.6% (1)
YE	0.6% (1)
ZM	0.6% (1)
Total	100.0% (176)

Continents studied

Table 5: Number of studies per continent

continent_studied	num_of_studies
americas	36.4% (68)
asia	25.1% (47)
africa	24.6% (46)
europe	13.4% (25)
oceania	0.5% (1)
Total	100.0% (187)

Geographic connection of authors to the studied locations

Table 6: Studies with at least one author affiliation in the location studied

collab_type	country_studied	yes	no	Total
purely_academic	US	94.4% (17)	5.6% (1)	18
purely_academic	CN	100.0% (8)	0.0% (0)	8
purely_academic	HK	77.8% (7)	22.2% (2)	9
purely_academic	CA	100.0% (3)	0.0% (0)	3
purely_academic	TW	100.0% (3)	0.0% (0)	3
purely_academic	BR	100.0% (2)	0.0% (0)	2
purely_academic	MX	66.7% (2)	33.3% (1)	3
purely_academic	CO	100.0% (1)	0.0% (0)	1
purely_academic	GB	50.0% (1)	50.0% (1)	2
purely_academic	GR	100.0% (1)	0.0% (0)	1
purely_academic	HU	100.0% (1)	0.0% (0)	1
purely_academic	IL	100.0% (1)	0.0% (0)	1
purely_academic	IN	50.0% (1)	50.0% (1)	2
purely_academic	JP	100.0% (1)	0.0% (0)	1
purely_academic	NO	100.0% (1)	0.0% (0)	1
purely_academic	PH	100.0% (1)	0.0% (0)	1
purely_academic	PT	100.0% (1)	0.0% (0)	1
purely_academic	SE	100.0% (1)	0.0% (0)	1
purely_academic	SG	100.0% (1)	0.0% (0)	1
purely_academic	TZ	100.0% (1)	0.0% (0)	1
purely_academic	LR	0.0% (0)	100.0% (5)	5
purely_academic	HT	0.0% (0)	100.0% (3)	3
purely_academic	SL	0.0% (0)	100.0% (3)	3
purely_academic	GN	0.0% (0)	100.0% (2)	2
purely_academic	LY	0.0% (0)	100.0% (2)	2
purely_academic	ZW	0.0% (0)	100.0% (2)	2
purely_academic	AO	0.0% (0)	100.0% (1)	1
purely_academic	CD	0.0% (0)	100.0% (1)	1
purely_academic	CV	0.0% (0)	100.0% (1)	1
purely_academic	DK	0.0% (0)	100.0% (1)	1
purely_academic	ET	0.0% (0)	100.0% (1)	1
purely_academic	FO	0.0% (0)	100.0% (1)	1
purely_academic	NG	0.0% (0)	100.0% (1)	1
purely_academic	SD	0.0% (0)	100.0% (1)	1
mixed	US	100.0% (19)	0.0% (0)	19
mixed	CN	100.0% (11)	0.0% (0)	11
mixed	CA	87.5% (7)	12.5% (1)	8
mixed	MX	83.3% (5)	16.7% (1)	6

Table 6: Studies with at least one author affiliation in the location studied *(continued)*

collab_type	country_studied	yes	no	Total
mixed	NL	100.0% (4)	0.0% (0)	4
mixed	GB	100.0% (3)	0.0% (0)	3
mixed	JP	100.0% (3)	0.0% (0)	3
mixed	NO	100.0% (3)	0.0% (0)	3
mixed	BR	100.0% (2)	0.0% (0)	2
mixed	IL	100.0% (2)	0.0% (0)	2
mixed	IT	100.0% (2)	0.0% (0)	2
mixed	LR	20.0% (1)	80.0% (4)	5
mixed	AU	100.0% (1)	0.0% (0)	1
mixed	BE	100.0% (1)	0.0% (0)	1
mixed	BF	100.0% (1)	0.0% (0)	1
mixed	DK	100.0% (1)	0.0% (0)	1
mixed	FR	100.0% (1)	0.0% (0)	1
mixed	IS	100.0% (1)	0.0% (0)	1
mixed	NE	50.0% (1)	50.0% (1)	2
mixed	SG	100.0% (1)	0.0% (0)	1
mixed	TD	100.0% (1)	0.0% (0)	1
mixed	VE	100.0% (1)	0.0% (0)	1
mixed	GN	0.0% (0)	100.0% (2)	2
mixed	NG	0.0% (0)	100.0% (2)	2
mixed	SL	0.0% (0)	100.0% (2)	2
mixed	HT	0.0% (0)	100.0% (1)	1
mixed	NP	0.0% (0)	100.0% (1)	1
mixed	YE	0.0% (0)	100.0% (1)	1
mixed	ZM	0.0% (0)	100.0% (1)	1
Total	-	72.6% (127)	27.4% (48)	175

Author affiliation in the studied location (overall)

Table 7: At least one author with an affiliation in the studied location

collab_type	yes	no	Total
mixed	83.1% (64)	16.9% (13)	77
purely_academic	67.5% (54)	32.5% (26)	80
Total	75.2% (118)	24.8% (39)	157

Interventions

Types of interventions

Table 8: Number of studies per intervention categories

collab_type	no_vax	vax_combination_with_others	vax_single	Total
purely_academic	53.1% (68)	39.1% (50)	7.8% (10)	128
mixed	42.0% (42)	45.0% (45)	13.0% (13)	100
Total	48.2% (110)	41.7% (95)	10.1% (23)	228

Impact of vaccination

Table 9: Conclusions about impact of vaccination

collab_type	yes	no	inconclusive	Total
mixed	76.9% (10)	15.4% (2)	7.7% (1)	13
purely_academic	90.0% (9)	10.0% (1)	0.0% (0)	10
Total	82.6% (19)	13.0% (3)	4.3% (1)	23

Modelling objectives

Table 10: Study objectives by collaboration type

collab_type	both	future	past	Total
purely_academic	3.1% (4)	75.8% (97)	21.1% (27)	128
mixed	1.0% (1)	70.0% (70)	29.0% (29)	100
Total	2.2% (5)	73.2% (167)	24.6% (56)	228

Outbreak types

Table 11: outbreak types by collaboration type

collab_type	hypothetical_outbreak	real_outbreak	Total
purely_academic	52.3% (67)	47.7% (61)	128
mixed	47.0% (47)	53.0% (53)	100
Total	50.0% (114)	50.0% (114)	228

Individual heterogeneity: agent-based versus compartmental models

Table 12: How individuals were represented

collab_type	compartments	agents	individuals_representation_other	Total
purely_academic	80.5% (103)	18.8% (24)	0.8% (1)	128
mixed	76.0% (76)	22.0% (22)	2.0% (2)	100
Total	78.5% (179)	20.2% (46)	1.3% (3)	228

Spatial heterogeneity

Table 13: Was space explicitly represented in the model

collab_type	no	yes	Total
purely_academic	73.4% (94)	26.6% (34)	128
mixed	68.0% (68)	32.0% (32)	100
Total	71.1% (162)	28.9% (66)	228

Model dynamics: deterministic vs stochastic

Table 14: Model dynamics (deterministic versus stochastic)

collab_type	both	deterministic	stochastic	Total
purely_academic	5.5% (7)	69.5% (89)	25.0% (32)	128
mixed	7.0% (7)	53.0% (53)	40.0% (40)	100
Total	6.1% (14)	62.3% (142)	31.6% (72)	228

Outcomes measured

Table 15: Model outcomes by collaboration type

collab_type	outcome_measured	num_of_studies
purely_academic	final_epidemic_size	11.5% (54)
purely_academic	attack_rate	6.2% (29)
purely_academic	timing_of_peak	4.2% (20)
purely_academic	cost	3.8% (18)
purely_academic	outbreak_duration_and_timing	3.0% (14)
purely_academic	cases_averted	2.5% (12)
purely_academic	intervention_coverage	1.3% (6)
purely_academic	case_fatality	1.1% (5)
purely_academic	cumulative incidence	1.1% (5)
purely_academic	incidence	1.1% (5)
purely_academic	control reproduction number	0.8% (4)
purely_academic	peak magnitude	0.8% (4)
purely_academic	peak magnitude	0.6% (3)
purely_academic	campaign_duration	0.6% (3)
purely_academic	deaths_averted	0.6% (3)
purely_academic	hospitalizations	0.6% (3)
purely_academic	basic reproduction number	0.4% (2)
purely_academic	cumulative deaths	0.4% (2)
purely_academic	basic reproduction number	0.4% (2)
purely_academic	cumulative attack rate	0.4% (2)
purely_academic	peak size	0.4% (2)
purely_academic	qualys	0.4% (2)
purely_academic	r0	0.4% (2)
purely_academic	total deaths	0.4% (2)
purely_academic	and the individuals that have recovered and are immune to evd	0.2% (1)
purely_academic	cumulative cases	0.2% (1)
purely_academic	cumulative infections	0.2% (1)
purely_academic	date of first reported cases	0.2% (1)
purely_academic	epidemic prevention potential	0.2% (1)
purely_academic	i and r curve	0.2% (1)
purely_academic	incidence	0.2% (1)
purely_academic	isolated or quarantined individuals	0.2% (1)
purely_academic	net benefits	0.2% (1)
purely_academic	number of latently infected individuals	0.2% (1)
purely_academic	number of susceptible individuals	0.2% (1)
purely_academic	number of times countermeasures are started	0.2% (1)
purely_academic	peak day	0.2% (1)
purely_academic	peak infections	0.2% (1)
purely_academic	proportion of susceptible individuals	0.2% (1)
purely_academic	proportion of time that infected size is above a threshold number of infecteds	0.2% (1)
purely_academic	return on investment	0.2% (1)

Table 15: Model outcomes by collaboration type *(continued)*

collab_type	outcome_measured	num_of_studies
purely_academic	risk of death	0.2% (1)
purely_academic	transmission	0.2% (1)
purely_academic	average overall effectiveness	0.2% (1)
purely_academic	cumulative cases	0.2% (1)
purely_academic	cumulative deaths	0.2% (1)
purely_academic	cumulative hospital cases	0.2% (1)
purely_academic	cumulative infections	0.2% (1)
purely_academic	first arrival time	0.2% (1)
purely_academic	force of infection	0.2% (1)
purely_academic	funerals	0.2% (1)
purely_academic	geometric mean number of infected hosts	0.2% (1)
purely_academic	hospital notifications	0.2% (1)
purely_academic	household reproduction number	0.2% (1)
purely_academic	household reproduction number for	0.2% (1)
purely_academic	incremental cost effectiveness ratio	0.2% (1)
purely_academic	infection rate	0.2% (1)
purely_academic	mortality	0.2% (1)
purely_academic	mortality rate	0.2% (1)
purely_academic	number of exposed and infectious individuals	0.2% (1)
purely_academic	number of individuals in s	0.2% (1)
purely_academic	number of simulations with epidemic outbreak	0.2% (1)
purely_academic	peak daily infection	0.2% (1)
purely_academic	peak incidence	0.2% (1)
purely_academic	peak infection rate	0.2% (1)
purely_academic	prevalence	0.2% (1)
purely_academic	reproduction number	0.2% (1)
purely_academic	total fraction of infected and exposed	0.2% (1)
purely_academic	vaccine doses	0.2% (1)
mixed	attack_rate	6.6% (31)
mixed	final_epidemic_size	6.6% (31)
mixed	cases_averted	4.5% (21)
mixed	timing_of_peak	3.4% (16)
mixed	outbreak_duration_and_timing	2.8% (13)
mixed	hospitalizations	1.9% (9)
mixed	intervention_coverage	1.5% (7)
mixed	case_fatality	1.1% (5)
mixed	cost	1.1% (5)
mixed	cumulative incidence	1.1% (5)
mixed	incidence	1.1% (5)
mixed	r0	1.1% (5)
mixed	peak magnitude	0.8% (4)
mixed	peak size	0.6% (3)
mixed	qualys	0.6% (3)
mixed	total deaths	0.6% (3)
mixed	incidence	0.4% (2)
mixed	population immunity	0.4% (2)
mixed	cumulative attack rate	0.4% (2)
mixed	cumulative cases	0.4% (2)
mixed	deaths	0.4% (2)
mixed	mortality rate	0.4% (2)
mixed	peak incidence	0.4% (2)
mixed	average expected number of cases	0.2% (1)
mixed	average hospitalizations	0.2% (1)
mixed	average infections	0.2% (1)
mixed	average number of weeks lost	0.2% (1)
mixed	case reproduction number	0.2% (1)

Table 15: Model outcomes by collaboration type *(continued)*

collab_type	outcome_measured	num_of_studies
mixed	cumulative attack rate	0.2% (1)
mixed	cumulative cases	0.2% (1)
mixed	cumulative deaths	0.2% (1)
mixed	incremental net benefits	0.2% (1)
mixed	indirect protection	0.2% (1)
mixed	maximum number of symptomatic cases per day	0.2% (1)
mixed	number of courses of drug required to achieve containment	0.2% (1)
mixed	total vaccinated	0.2% (1)
mixed	vaccination coverage	0.2% (1)
mixed	vaccine-derived virus prevalence	0.2% (1)
mixed	years of life lost	0.2% (1)
mixed	average deaths	0.2% (1)
mixed	campaign_duration	0.2% (1)
mixed	cumulative deaths	0.2% (1)
mixed	cumulative infected	0.2% (1)
mixed	dalys	0.2% (1)
mixed	deaths_averted	0.2% (1)
mixed	delay between epidemics	0.2% (1)
mixed	duration of infection	0.2% (1)
mixed	effective reproduction number	0.2% (1)
mixed	effectiveness of vaccination strategies	0.2% (1)
mixed	extra protective rate	0.2% (1)
mixed	immunization threshold	0.2% (1)
mixed	incremental cost effectiveness ratio	0.2% (1)
mixed	incremental cost effectiveness ratio (icer)	0.2% (1)
mixed	instantaneous reproduction number	0.2% (1)
mixed	morbidity	0.2% (1)
mixed	number of contacts traced	0.2% (1)
mixed	number of deaths	0.2% (1)
mixed	paralytic incidence	0.2% (1)
mixed	peak difference	0.2% (1)
mixed	peak prevalence	0.2% (1)
mixed	prevalence of infection	0.2% (1)
mixed	probability of preventing a large outbreak	0.2% (1)
mixed	resistant cases	0.2% (1)
mixed	risk of case importation	0.2% (1)
mixed	time of detection	0.2% (1)
Total	-	100.0% (471)

Sensitivity analysis

Table 16: Sensitivity analysis

collab_type	no	yes	Total
purely_academic	57.8% (74)	42.2% (54)	128
mixed	48.0% (48)	52.0% (52)	100
Total	53.5% (122)	46.5% (106)	228

Data use and data availability

Table 17: Data accessibility

collab_type	yes	no	Total
purely_academic	81.0% (51)	19.0% (12)	63
mixed	56.9% (37)	43.1% (28)	65
Total	68.8% (88)	31.2% (40)	128

Code availability

Table 18: Code availability

collab_type	no	yes	Total
purely_academic	98.4% (126)	1.6% (2)	128
mixed	98.0% (98)	2.0% (2)	100
Total	98.2% (224)	1.8% (4)	228

Foot and mouth disease (FMD)

Unique combinations of author affiliation types

Table 19: Number of studies by author affiliation type combination

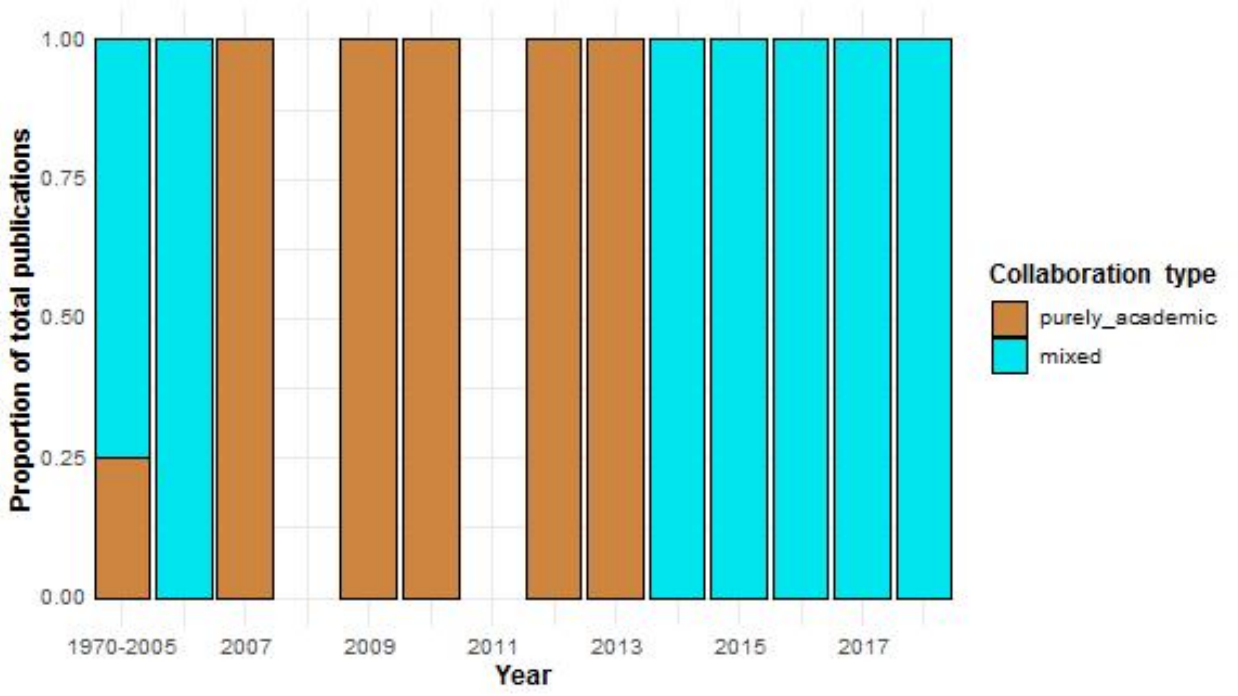
author_affiliation_type	n
academic_institutions	44.0% (11)
academic_institutions + government_institutions	24.0% (6)
government_institutions	20.0% (5)
academic_institutions + government_institutions + NGO	8.0% (2)
government_institutions + NGO	4.0% (1)
Total	100.0% (25)

Collaboration types (aggregated)

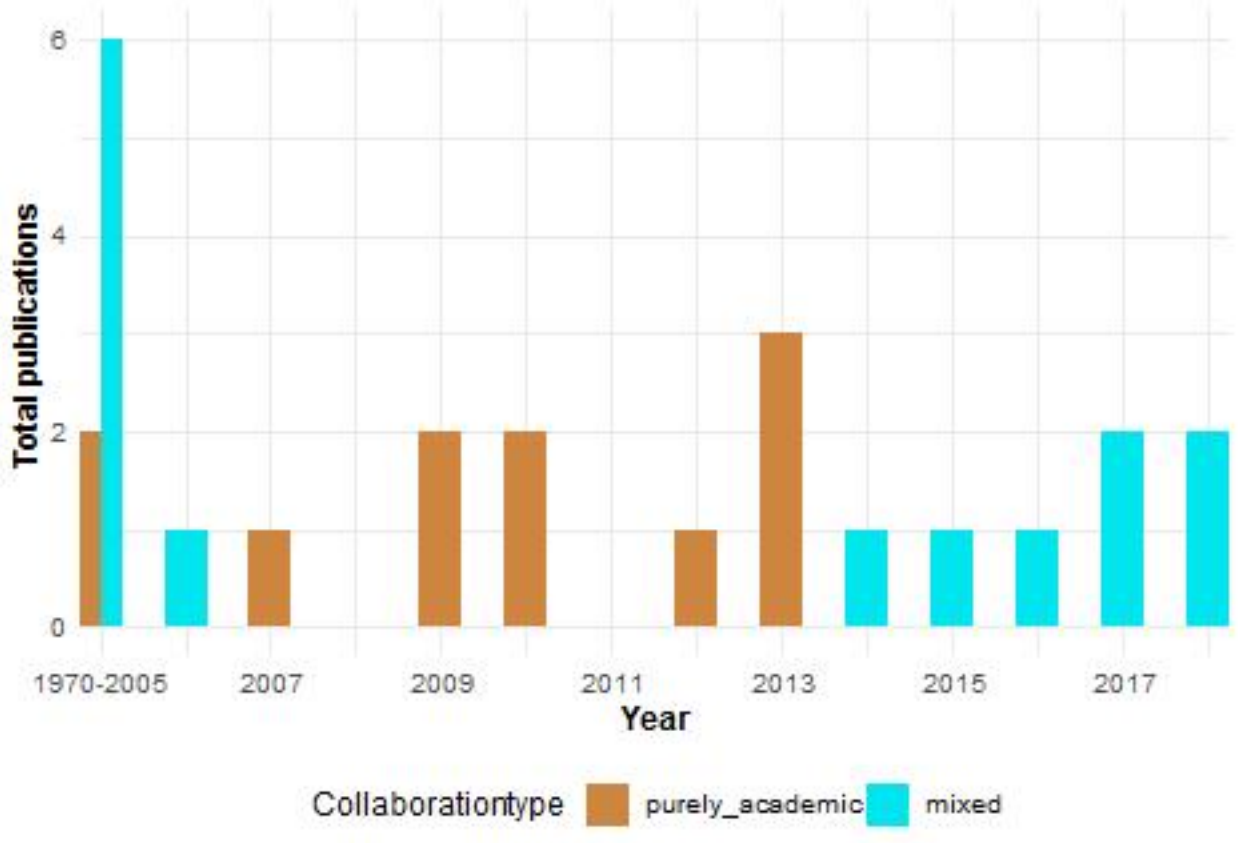
Table 20: Number of studies per collaboration type

collab_type	n
mixed	56.0% (14)
purely_academic	44.0% (11)
Total	100.0% (25)

Proportions of the total publications per year by collaboration type



Absolute number of publications per year by collaboration type



Geographic connection of authors to the studied locations

Table 21: Studies with at least one author affiliation in the location studied

collab_type	country_studied	yes	no	Total
purely_academic	NL	100.0% (4)	0.0% (0)	4
purely_academic	GB	66.7% (2)	33.3% (1)	3
purely_academic	DK	100.0% (2)	0.0% (0)	2
purely_academic	US	100.0% (1)	0.0% (0)	1
purely_academic	ES	100.0% (1)	0.0% (0)	1
mixed	GB	100.0% (2)	0.0% (0)	2
mixed	FR	100.0% (2)	0.0% (0)	2
mixed	CH	100.0% (2)	0.0% (0)	2
mixed	US	100.0% (1)	0.0% (0)	1
mixed	NL	100.0% (1)	0.0% (0)	1
mixed	JP	100.0% (1)	0.0% (0)	1
mixed	AT	100.0% (1)	0.0% (0)	1
mixed	SE	100.0% (1)	0.0% (0)	1
mixed	AU	100.0% (1)	0.0% (0)	1
mixed	AU CA NZ GB US	100.0% (1)	0.0% (0)	1
mixed	UY	0.0% (0)	100.0% (1)	1
Total	-	92.0% (23)	8.0% (2)	25

Aggregated

Table 22: Studies with at least one author affiliation in the location studied

collab_type	yes	no	Total
mixed	92.9% (13)	7.1% (1)	14
purely_academic	90.9% (10)	9.1% (1)	11
Total	92.0% (23)	8.0% (2)	25

Interventions

Types of interventions

Table 23: Number of studies per intervention type

collab_type	vax_single	vax_combination_with_others	no_vax	Total
mixed	71.4% (10)	14.3% (2)	14.3% (2)	14
purely_academic	36.4% (4)	45.5% (5)	18.2% (2)	11
Total	56.0% (14)	28.0% (7)	16.0% (4)	25

Impact of vaccination

Table 24: Conclusions about impact of vaccination

collab_type	no	inconclusive	yes	Total
mixed	60.0% (6)	20.0% (2)	20.0% (2)	10
purely_academic	50.0% (2)	50.0% (2)	0.0% (0)	4
Total	57.1% (8)	28.6% (4)	14.3% (2)	14

Modelling objectives

Table 25: Study objectives by collaboration type

collab_type	future	past	Total
purely_academic	63.6% (7)	36.4% (4)	11
mixed	71.4% (10)	28.6% (4)	14
Total	68.0% (17)	32.0% (8)	25

Outbreak types

Table 26: Study objectives by collaboration type

collab_type	hypothetical_outbreak	real_outbreak	Total
purely_academic	72.7% (8)	27.3% (3)	11
mixed	64.3% (9)	35.7% (5)	14
Total	68.0% (17)	32.0% (8)	25

Individual heterogeneity: agent-based versus compartmental models

Table 27: How individuals are represented

collab_type	agents	compartments	Total
mixed	71.4% (10)	28.6% (4)	14
purely_academic	81.8% (9)	18.2% (2)	11
Total	76.0% (19)	24.0% (6)	25

Spatial heterogeneity

Table 28: Models with spatial structure

collab_type	yes	no	Total
purely_academic	81.8% (9)	18.2% (2)	11
mixed	64.3% (9)	35.7% (5)	14
Total	72.0% (18)	28.0% (7)	25

Model dynamics: deterministic vs stochastic

Table 29: Model dynamics (deterministic versus stochastic)

collab_type	deterministic	stochastic	Total
purely_academic	36.4% (4)	63.6% (7)	11
mixed	50.0% (7)	50.0% (7)	14
Total	44.0% (11)	56.0% (14)	25

Outcomes measured

Table 30: Model outcomes by collaboration type

collab_type	outcome_measured	num_of_studies
purely_academic	outbreak_duration_and_timing	11.6% (8)
purely_academic	final_epidemic_size	5.8% (4)
purely_academic	cost	2.9% (2)
purely_academic	number of infected farms	2.9% (2)
purely_academic	basic reproduction number	1.4% (1)
purely_academic	export losses	1.4% (1)
purely_academic	number of depopulated herds	1.4% (1)
purely_academic	number of depopulated premises	1.4% (1)
purely_academic	number of farms in control zones	1.4% (1)
purely_academic	number of quarantined premises	1.4% (1)
purely_academic	the number of pre-emptively slaughtered farms	1.4% (1)
purely_academic	attack_rate	1.4% (1)
purely_academic	effective reproduction number	1.4% (1)
purely_academic	intervention_coverage	1.4% (1)
purely_academic	lives_saved	1.4% (1)
purely_academic	number of infected herds	1.4% (1)
purely_academic	number of infected premises	1.4% (1)
mixed	outbreak_duration_and_timing	14.5% (10)
mixed	final_epidemic_size	13.0% (9)
mixed	cost	7.2% (5)
mixed	control costs	1.4% (1)
mixed	employment effects	1.4% (1)
mixed	income effects	1.4% (1)
mixed	number of herds vaccinated	1.4% (1)
mixed	number of premises culled	1.4% (1)
mixed	output effects	1.4% (1)
mixed	total number of herds culled	1.4% (1)
mixed	total number of herds vaccinated	1.4% (1)
mixed	compensation	1.4% (1)
mixed	export losses	1.4% (1)
mixed	intervention_coverage	1.4% (1)
mixed	number of animals culled	1.4% (1)
mixed	number of herds slaughtered	1.4% (1)
mixed	total number of animals culled	1.4% (1)
mixed	total number of herds surveilled	1.4% (1)

Table 30: Model outcomes by collaboration type *(continued)*

collab_type	outcome_measured	num_of_studies
mixed	total number of infected premises	1.4% (1)
Total	-	100.0% (69)

Parametrization methods

Table 31: Model parametrization methods

collab_type	literature and expert_opinion	literature and expert_opinion and fitted	fitted	literature	literature and fitted	expert_opinion	expert_opinion and fitted	Total
mixed	42.9% (6)	7.1% (1)	21.4% (3)	21.4% (3)	0.0% (0)	7.1% (1)	0.0% (0)	14
purely_academic	9.1% (1)	27.3% (3)	18.2% (2)	9.1% (1)	18.2% (2)	9.1% (1)	9.1% (1)	11
Total	28.0% (7)	16.0% (4)	20.0% (5)	16.0% (4)	8.0% (2)	8.0% (2)	4.0% (1)	25

Validation methods

Table 32: Model validation methods

collab_type	none	data	another_model	Total
mixed	71.4% (10)	21.4% (3)	7.1% (1)	14
purely_academic	72.7% (8)	27.3% (3)	0.0% (0)	11
Total	72.0% (18)	24.0% (6)	4.0% (1)	25

Sensitivity analysis

Table 33: Sensitivity analysis

collab_type	no	yes	Total
mixed	71.4% (10)	28.6% (4)	14
purely_academic	36.4% (4)	63.6% (7)	11
Total	56.0% (14)	44.0% (11)	25

Data use and data availability

Table 34: Data accessibility

collab_type	no	yes	Total
mixed	100.0% (6)	0.0% (0)	6
purely_academic	62.5% (5)	37.5% (3)	8
Total	78.6% (11)	21.4% (3)	14

Code availability

Table 35: Code availability

collab_type	no
purely_academic	44.0% (11)
mixed	56.0% (14)
Total	100.0% (25)