

Supplementary Materials

Table S1. Missing data for clinical characteristics and survey responses

All participants	Missing data
n = 227	n (%)
Age (years)	0 (0%)
Men	0 (0%)
Alcohol (grams per week)	0 (0%)
Alcohol more than 10 units per week	0 (0%)
Smoking status	11 (1.5%)
Origin	0 (0%)
Plasma HIV RNA < 50 copies/mL	0 (0%)
Blood CD4 ⁺ T lymphocyte count, cells/ μ L	127 (17.5%)
Education	31 (4.3%)
STD in the preceding two years	0 (0%)

Participants who answered the online survey	Missing data
n = 401	n (%)
Have you heard about mpox?	2 (0.5%)
Do you see yourself as being at risk of the mpox infection?	2 (0.5%)
Have you heard about the mpox vaccine?	11 (2.7%)
Have you been offered the vaccine?	12 (3%)
Have you received the mpox vaccine?	11 (2.7%)
Why did you choose to get the vaccine?	0 missing
Why did you choose not to get the vaccine?	0 missing
On a scale of 1-5 how willing are you to get the mpox vaccine?	38 (9.5%)
On a scale of 1-5 how worried are you about getting infected with mpox?	6 (1.5%)

How many sexual partners have you had in the last 12 weeks?	11 (2.7%)
--	-----------

Have you received the smallpox vaccine as a child?	12 (3%)
---	---------

| STD, sexually transmitted disease | |

Table S2. Prediction of incident mpox using Cox regression

Unadjusted	Hazard Ratio	P-value
Age (per year)	0.9, 95% CI 0.8-0.9	0.01
STD in the preceding 2 years	10.1, 95% CI 2.8-36.6	<0.001
Alcohol (units per week)	0.9, 95% CI 0.9-1.0	0.2
Alcohol more than 10 units per week	0.6, 95% CI 0.2-2.0	0.4
Undetectable viral load	0.7, 95% CI 0.1-5.6	0.8
Model 1	Hazard Ratio	P-value
Age (per year)	0.95, 95% CI 0.9-1.0	0.1
STD in the preceding 2 years	7.1, 95% CI 1.9-26.9	0.004

Model 1 is adjusted for age and a diagnosis with at least one STD in the preceding two


years. STD, sexually transmitted disease

Table S3. Univariable and multivariable logistic regression of the factors associated with vaccine uptake among MSM LWH

	Mpox vaccination uptake					
	Univariable model			Multivariable model		
	OR	95%CI	p-value	aOR	95%CI	p-value
Age (per year)	0.9	0.9-1.0	0.003	0.9	0.9-1.0	0.2
STD in the preceding 2 years	3.4	2.4-7.8	<0.001	3.1	2.2-4.6	<0.001
Alcohol (units per week)	1.0	1.0-1.0	0.2			
Alcohol more than 10 units per week	0.9	0.7-1.3	0.6			
Smoking status						
Never smoker	Ref.			Ref.		

Ex-smoker	0.8	0.6-1.2	0.21	0.9	0.6-1.4	0.8
Current smoker	0.6	0.4-0.9	0.01	0.6	0.4-0.9	0.01
Origin						
Scandinavian	Ref.					
Other	0.9	0.5-1.4	0.6			
Other European	0.7	0.4-1.2	0.2			
Education						
Long education	Ref.					
No education or short education	0.8	0.6-1.2	0.3			
Undetectable viral load	0.8	0.4-1.4	0.4			
CD4	1.0	1.0-1.0	0.6			

OR, odds ratio; CI, confidence interval; aOR, adjusted odds ratio; STD, sexually transmitted disease Multivariable model is adjusted for age, STD and smoking status.

#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)
Instrument: Spørgeskema om Vaccination mod Abekopper (sprgeskema_om_vaccination_mod_abekopper)  Enabled as survey			
1	[participant_id]	Participant ID	text
2	[consent]	Tak fordi, du har valgt at deltage i spørgeskemaundersøgelsen. I det følgende spørgeskema vil vi still dig nogle spørgsmål om abekopper og vaccination. Ved at klikke ja giver du samtykke til, vi må bruge dine oplysninger fra COCOMO-studiet.	radio 1 Ja
3	[cpr_0] Show the field ONLY if: [consent] = '1'	Ved at udfylde dit CPR-nummer har vi mulighed for at sammenkoble din besvarelse med blodprøvesvar.	descriptive
4	[cpr] Show the field ONLY if: [consent] = '1'	Indtast dit CPR-nummer	text (CPR_danish)
5	[nocpr] Show the field ONLY if: [consent] = '1'	Jeg ønsker ikke at udfylde CPR-nummer	radio 0 Jeg ønsker ikke at udfylde CPR-nummer
6	[q1] Show the field ONLY if: [consent] = '1'	Section Header: Spørgsmål om abekopper også kaldet monkeypox Har du hørt om abekopper?	radio, Required 1 Ja 0 Nej 9 Ved ikke / ønsker ikke at svare Question number: 1
7	[q2] Show the field ONLY if: [consent] = '1'	Ser du dig selv som værende i risikogruppen for at få abekopper?	radio, Required 1 Ja 0 Nej 9 Ved ikke / ønsker ikke at svare Question number: 2
8	[monkeypox]	På en skala fra 1-5, hvor 1 er 'slet ikke bekymret' og 5 er 'ekstremt bekymret'. Hvor bekymret er du for at få abekopper?	radio (Matrix) 1 1 2 2 3 3 4 4 5 5 9 Ved ikke/Ønsker ikke at svare Question number: 3
9	[q3] Show the field ONLY if: [consent] = '1'	Section Header: Spørgsmål om vaccine mod abekopper Har du hørt om vaccinen mod abekopper?	radio, Required 1 Ja 0 Nej 9 Ved ikke / ønsker ikke at svare Question number: 4
10	[vaccine] Show the field ONLY if: [q3] = '1' or [q3] = '9'	På en skala fra 1-5, hvor 1 er 'slet ikke villig' og 5 er 'ekstremt villig'. Hvor villig er du til at få vaccinen mod abekopper?	radio (Matrix) 1 1 2 2 3 3 4 4 5 5 9 Ved ikke/Ønsker ikke at svare Question number: 5
11	[q_partners]	Hvor mange seksualpartnere har du haft i de sidste 12 uger?	text (number, Min: 0), Required Question number: 6

12	[q4] Show the field ONLY if: [consent] = '1'	Er du blevet tilbudt vaccinen mod abekopper?	radio, Required <table border="1"> <tr><td>1</td><td>Ja</td></tr> <tr><td>0</td><td>Nej</td></tr> <tr><td>9</td><td>Ved ikke / ønsker ikke at svare</td></tr> </table> Question number: 7	1	Ja	0	Nej	9	Ved ikke / ønsker ikke at svare																		
1	Ja																										
0	Nej																										
9	Ved ikke / ønsker ikke at svare																										
13	[q5] Show the field ONLY if: [consent] = '1'	Har du fået vaccinen mod abekopper?	radio, Required <table border="1"> <tr><td>1</td><td>Ja</td></tr> <tr><td>0</td><td>Nej</td></tr> <tr><td>9</td><td>Ved ikke / ønsker ikke at svare</td></tr> </table> Question number: 8	1	Ja	0	Nej	9	Ved ikke / ønsker ikke at svare																		
1	Ja																										
0	Nej																										
9	Ved ikke / ønsker ikke at svare																										
14	[q6] Show the field ONLY if: [q5] = '1'	Hvorfor valgte du at takke ja til vaccinen mod abekopper?	checkbox, Required <table border="1"> <tr><td>1</td><td>q6__1</td><td>Jeg ser mig selv som værende i risikogruppen</td></tr> <tr><td>2</td><td>q6__2</td><td>Jeg er bekymret for konsekvenserne af at blive smittet med abekopper</td></tr> <tr><td>3</td><td>q6__3</td><td>Jeg har fået det anbefalet af en sundhedsfaglig</td></tr> <tr><td>4</td><td>q6__4</td><td>Jeg har fået den anbefalet af en ven/familiemedlem/partner</td></tr> <tr><td>5</td><td>q6__5</td><td>Andet</td></tr> <tr><td>9</td><td>q6__9</td><td>Ved ikke / ønsker ikke at svare</td></tr> </table> Question number: 9	1	q6__1	Jeg ser mig selv som værende i risikogruppen	2	q6__2	Jeg er bekymret for konsekvenserne af at blive smittet med abekopper	3	q6__3	Jeg har fået det anbefalet af en sundhedsfaglig	4	q6__4	Jeg har fået den anbefalet af en ven/familiemedlem/partner	5	q6__5	Andet	9	q6__9	Ved ikke / ønsker ikke at svare						
1	q6__1	Jeg ser mig selv som værende i risikogruppen																									
2	q6__2	Jeg er bekymret for konsekvenserne af at blive smittet med abekopper																									
3	q6__3	Jeg har fået det anbefalet af en sundhedsfaglig																									
4	q6__4	Jeg har fået den anbefalet af en ven/familiemedlem/partner																									
5	q6__5	Andet																									
9	q6__9	Ved ikke / ønsker ikke at svare																									
15	[q6comment] Show the field ONLY if: [q6(5)] = '1'	Du har svaret "Andet". Beskriv venligst nærmere	notes																								
16	[q7] Show the field ONLY if: [q5] = '0'	Hvorfor valgte du at takke nej til vaccinen mod abekopper?	checkbox, Required <table border="1"> <tr><td>1</td><td>q7__1</td><td>Jeg har allerede haft abekopper</td></tr> <tr><td>2</td><td>q7__2</td><td>Jeg ser ikke mig selv som værende i risikogruppen</td></tr> <tr><td>3</td><td>q7__3</td><td>Jeg tror ikke på, at vaccinen er effektiv</td></tr> <tr><td>4</td><td>q7__4</td><td>Jeg gør brug af alle de nødvendige forebyggende metoder for ikke at blive smittet med abekopper</td></tr> <tr><td>5</td><td>q7__5</td><td>Jeg har ikke hørt om vaccinen</td></tr> <tr><td>7</td><td>q7__7</td><td>Jeg er allergisk</td></tr> <tr><td>6</td><td>q7__6</td><td>Andet</td></tr> <tr><td>9</td><td>q7__9</td><td>Ved ikke / ønsker ikke at svare</td></tr> </table> Question number: 9	1	q7__1	Jeg har allerede haft abekopper	2	q7__2	Jeg ser ikke mig selv som værende i risikogruppen	3	q7__3	Jeg tror ikke på, at vaccinen er effektiv	4	q7__4	Jeg gør brug af alle de nødvendige forebyggende metoder for ikke at blive smittet med abekopper	5	q7__5	Jeg har ikke hørt om vaccinen	7	q7__7	Jeg er allergisk	6	q7__6	Andet	9	q7__9	Ved ikke / ønsker ikke at svare
1	q7__1	Jeg har allerede haft abekopper																									
2	q7__2	Jeg ser ikke mig selv som værende i risikogruppen																									
3	q7__3	Jeg tror ikke på, at vaccinen er effektiv																									
4	q7__4	Jeg gør brug af alle de nødvendige forebyggende metoder for ikke at blive smittet med abekopper																									
5	q7__5	Jeg har ikke hørt om vaccinen																									
7	q7__7	Jeg er allergisk																									
6	q7__6	Andet																									
9	q7__9	Ved ikke / ønsker ikke at svare																									
17	[q7comment] Show the field ONLY if: [q7(6)] = '1'	Du har svaret "Andet". Beskriv venligst nærmere	notes																								
18	[variola] Show the field ONLY if: [consent] = '1'	Har du som barn fået koppevaccinen?"	radio, Required <table border="1"> <tr><td>1</td><td>Ja</td></tr> <tr><td>0</td><td>Nej</td></tr> <tr><td>9</td><td>Ved ikke / ønsker ikke at svare</td></tr> </table> Question number: 10	1	Ja	0	Nej	9	Ved ikke / ønsker ikke at svare																		
1	Ja																										
0	Nej																										
9	Ved ikke / ønsker ikke at svare																										
19	[sprgeskema_om_vaccination_mod_abekopper_complete]	Section Header: Form Status Complete?	dropdown <table border="1"> <tr><td>0</td><td>Incomplete</td></tr> <tr><td>1</td><td>Unverified</td></tr> <tr><td>2</td><td>Complete</td></tr> </table>	0	Incomplete	1	Unverified	2	Complete																		
0	Incomplete																										
1	Unverified																										
2	Complete																										

Figure S1. Mpox vaccine survey

Mpox vaccine survey translated to English.

Question 1: Have you heard about mpox? (yes/no)

Question 2: Do you see yourself as being at risk of the mpox infection? (yes/no)

Question 3: Have you heard about the mpox vaccine? (yes/no)

Question 4: Have you been offered the vaccine against mpox? (yes/no)

Question 5: Have you received the mpox vaccine? (yes/no)

Question 6: Why did you choose to get the vaccine?

- I see myself as being in the risk group
- I am worried about the consequences of being infected with mpox
- It was recommended by a health care professional
- It was recommended by a friend/family member/partner - Other reason

Question 7: Why did you choose not to get the vaccine?

- I have already had mpox
- I am not seeing myself as being in the risk group
- I don't believe in the efficiency of the vaccine
- I'm using all other sorts of protecting measures in order not to get infected with mpox
- I have not heard about the vaccine
- I am allergic
- Other reason
- Don't know/don't wish to answer

Question 8: On a scale of 1-5, where 1 is "not worried at all" and 5 is "very worried", how worried are you about getting infected with mpox? (1-5)

Question 9: On a scale of 1-5, where 1 is "not willing at all" and 5 is "very willing", how willing are you to get the mpox vaccine? (1-5)

Question 10: How many sexual partners have you had in the last 12 weeks?

Question 11: Have you received the smallpox vaccine as a child?

