

| Adverse Event (AE) | Severity Grade | | | | Participants (n = 10) | % |
|---|-------------------|-----------------------|---------------------|--------------------------|--------------------------|----|
| | Mild (no. AEs) | Moderate (no. AEs) | Severe (no. AEs) | Very severe (no. AEs) | | |
| Not related to p24CE/IL-12, p24CE&p55/IL-12, MVA, Lefitolimod, VRC07-523LS or 10-1074 [†] | | | | | | |
| Elevated blood pressure | 19 | 0 | 0 | 0 | 6 | 60 |
| Elevated ALT | 10 | 1 | 0 | 0 | 5 | 50 |
| Myalgia | 10 | 3 | 0 | 0 | 5 | 50 |
| Sore throat | 8 | 1 | 0 | 0 | 5 | 50 |
| Headache | 7 | 3 | 0 | 0 | 5 | 50 |
| Diarrhea | 5 | 1 | 0 | 0 | 5 | 50 |
| Elevated AST | 4 | 1 | 0 | 0 | 5 | 50 |
| Acute COVID | 3 | 4 | 0 | 0 | 5 | 50 |
| Non-specific viral infection | 3 | 5 | 0 | 0 | 5 | 50 |
| Elevated total bilirubin | 19 | 0 | 0 | 0 | 4 | 40 |
| Fatigue | 7 | 0 | 0 | 0 | 4 | 40 |
| Malaise | 3 | 1 | 0 | 0 | 4 | 40 |
| Nausea | 3 | 1 | 0 | 0 | 4 | 40 |
| Fever | 3 | 2 | 0 | 0 | 3 | 30 |
| Night sweats | 3 | 2 | 0 | 0 | 3 | 30 |
| Cough | 2 | 2 | 0 | 0 | 3 | 30 |
| Environmental allergies | 2 | 1 | 0 | 0 | 3 | 30 |
| Chills | 6 | 0 | 0 | 0 | 2 | 20 |
| Cervical lymphadenopathy | 3 | 0 | 0 | 0 | 2 | 20 |
| Elevated glucose | 2 | 0 | 0 | 0 | 2 | 20 |
| Indigestion | 2 | 0 | 0 | 0 | 2 | 20 |
| Injection site pain | 2 | 0 | 0 | 0 | 2 | 20 |
| Abdominal pain | 1 | 1 | 0 | 0 | 2 | 20 |
| Arthralgia | 1 | 1 | 0 | 0 | 2 | 20 |
| Back pain | 1 | 1 | 0 | 0 | 2 | 20 |
| Elevated potassium | 1 | 1 | 0 | 0 | 2 | 20 |
| Herpes simplex 1 lesion | 1 | 2 | 0 | 0 | 2 | 20 |
| Knee pain | 1 | 1 | 0 | 0 | 2 | 20 |
| Low glucose | 1 | 2 | 0 | 0 | 2 | 20 |
| Gonorrhea | 0 | 2 | 0 | 0 | 2 | 20 |
| Non-specific gastroenteritis | 0 | 2 | 0 | 0 | 2 | 20 |
| Syphilis | 0 | 2 | 0 | 0 | 2 | 20 |
| Tinea | 0 | 3 | 0 | 0 | 2 | 20 |
| Rash | 3 | 0 | 0 | 0 | 1 | 10 |
| Perianal tenderness | 2 | 0 | 0 | 0 | 1 | 10 |
| Vomiting | 2 | 0 | 0 | 0 | 1 | 10 |
| Abdominal hernia | 1 | 0 | 0 | 0 | 1 | 10 |
| Acid reflux | 1 | 0 | 0 | 0 | 1 | 10 |
| Anger | 1 | 1 | 0 | 0 | 1 | 10 |
| Arthritis | 1 | 0 | 0 | 0 | 1 | 10 |
| Bunion | 1 | 0 | 0 | 0 | 1 | 10 |
| Congestion | 1 | 0 | 0 | 0 | 1 | 10 |
| Low calcium | 1 | 0 | 0 | 0 | 1 | 10 |
| Depression | 1 | 1 | 0 | 0 | 1 | 10 |
| Dry cough | 1 | 0 | 0 | 0 | 1 | 10 |
| Dry skin | 1 | 0 | 0 | 0 | 1 | 10 |
| Foul smelling urine | 1 | 0 | 0 | 0 | 1 | 10 |
| Insertion site swelling | 1 | 0 | 0 | 0 | 1 | 10 |
| Itching | 1 | 0 | 0 | 0 | 1 | 10 |
| Loss of smell | 1 | 0 | 0 | 0 | 1 | 10 |
| Low phosphate | 1 | 0 | 0 | 0 | 1 | 10 |
| Non-specific viral syndrome | 1 | 0 | 0 | 0 | 1 | 10 |
| Right upper quadrant pain | 1 | 0 | 0 | 0 | 1 | 10 |
| Runny nose | 1 | 0 | 0 | 0 | 1 | 10 |
| Seasonal allergies | 1 | 0 | 0 | 0 | 1 | 10 |
| Skin lesion on left knee | 1 | 0 | 0 | 0 | 1 | 10 |
| Sneezing | 1 | 0 | 0 | 0 | 1 | 10 |
| Sore deltoid | 1 | 0 | 0 | 0 | 1 | 10 |
| Stomach pains | 1 | 0 | 0 | 0 | 1 | 10 |
| Stye | 1 | 0 | 0 | 0 | 1 | 10 |
| Subclinical hypothyroidism | 1 | 0 | 0 | 0 | 1 | 10 |
| Swollen tastebud | 1 | 0 | 0 | 0 | 1 | 10 |
| Swollen tongue | 1 | 0 | 0 | 0 | 1 | 10 |
| Tendonitis | 1 | 0 | 0 | 0 | 1 | 10 |
| Acne | 0 | 1 | 0 | 0 | 1 | 10 |
| Anal warts | 0 | 1 | 0 | 0 | 1 | 10 |
| [†] Not related or probably not related | | | | | | |

[†] Not related or probably not related

Table S1. Non-intervention-related adverse events.