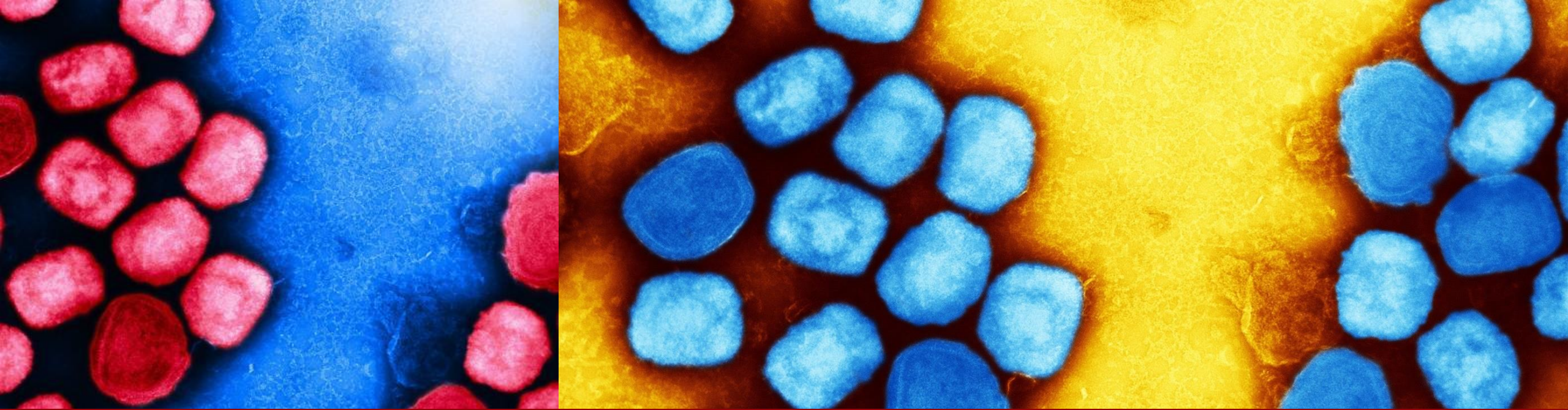




Mpox au « Nord » / quelques questions...

AFRANUM, jeudi 30 janvier 2025

Dr Romain PALICH

Maladies Infectieuses, Hôpital Pitié-Salpêtrière, AP-HP
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Une nouvelle IST ?

VARIOLE DU SINGE MONKEYPOX

TRANSMISSION

Le virus de la variole du singe circule actuellement en France, et dans le reste du monde.

- Il se transmet principalement par :
 - **Le contact** de la peau ou des muqueuses (bouche, sexe, anus) **avec les boutons ou les croûtes**,
 - **Les gouttelettes** (postillons, éternuement...).
- Dans les situations suivantes :
 - **Long face-à-face**, par les gouttelettes,
 - **Contact physique rapproché**,
 - **Partage de linge** (vêtement, drap, serviette...), d'ustensiles de toilette (rasoir, brosse à dents), de vaisselle, etc.
- **Les rapports sexuels**, avec ou sans pénétration, réunissent donc toutes les conditions pour une **contamination**.
Avoir plusieurs partenaires augmente le risque d'être exposé au virus.

Clinical Infectious Diseases

VIEWPOINTS



Is Mpox a Sexually Transmitted Infection? Why Narrowing the Scope of This Disease May Be Harmful

Aniruddha Hazra¹ and Joseph N. Cherabie²

¹Section of Infectious Diseases and Global Health, University of Chicago Medicine, Chicago, Illinois, USA; and ²Division of Infectious Diseases, Washington University School of Medicine—St. Louis, St. Louis, Missouri, USA

(See the Viewpoints by Allan-Blitz et al. on pages 1508–12.)

The 2022 multinational mpox outbreak has been characterized by unprecedented spread among men who have sex with men outside of sub-Saharan Africa. Close contact during sex and intimacy has been well established as a key pathway for human-to-human transmission in the current outbreak. Discussions on whether to assign this illness as a sexually transmitted infection (STI) have been ongoing since the initiation of the outbreak. While sexual contact certainly appears to be a primary means of spread, classifying mpox as an STI is inaccurate based on its known transmission dynamics, yields potential unintended consequences, and ignores the historical impact of the disease in Central and West Africa. Rather than focusing our energy on disease categorization, more effort should be placed on destigmatizing this illness and empowering communities at risk to protect themselves from mpox.

Épidémiologie, premières séries



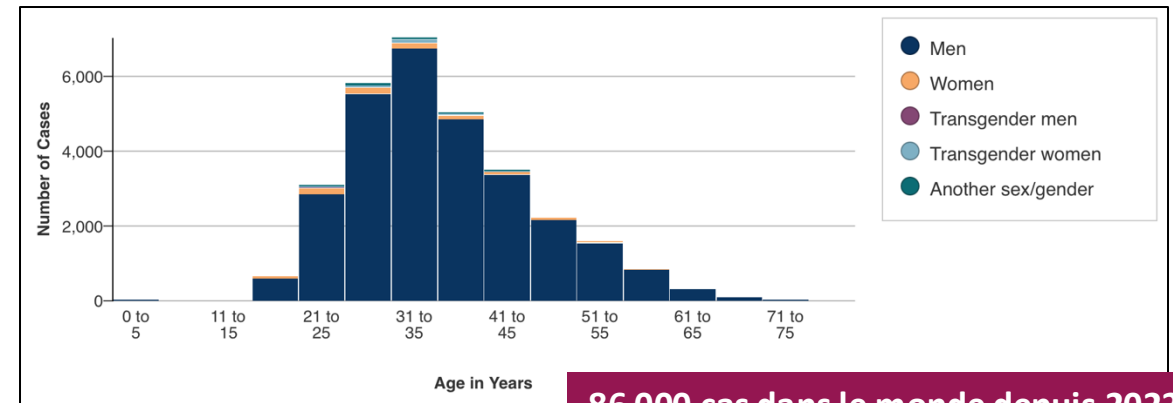
The NEW ENGLAND
JOURNAL of MEDICINE

Monkeypox Virus Infection in Humans across 16 Countries — April–June 2022

Table 1. Demographic and Clinical Characteristics of the Persons with Monkeypox.*

Characteristic	All Persons (N = 528)
Median age (range) — yr	38 (18–68)
Sex or gender — no. (%)	
Male	527 (>99)
Female	0
Trans or nonbinary	1 (<1)
Sexual orientation — no. (%)†	
Heterosexual	9 (2)
Homosexual	509 (96)
Bisexual	10 (2)
Race or ethnic group — no. (%)†	
White	398 (75)
Black	25 (5)
Mixed race	19 (4)
Latinx	66 (12)
Other or unknown	20 (4)
HIV positive — no. (%)	218 (41)
HIV negative or status unknown — no. (%)	310 (59)
Use of preexposure prophylaxis against HIV — no./total no. (%)	176/310 (57)

- 99% d'hommes, dont 98% de HSH
- PVVIH : 41% / séronégatifs sous PrEP : 33%
- IST concomitante : 29%
- Participation à un évènement communautaire festif sexuel : 32%



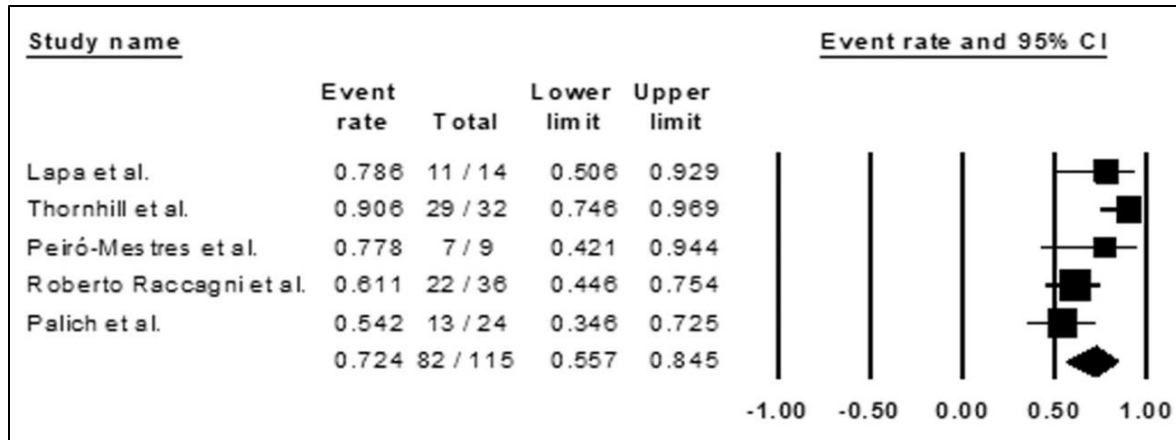
86 000 cas dans le monde depuis 2022

Quasiment que des hommes jeunes

Détection du virus dans le sperme

JOURNAL OF
**MEDICAL
VIROLOGY**

Monkeypox viral detection in semen specimens of confirmed cases: A systematic review and meta-analysis



- Données poolées : 115 patients
- PCR MPXV positive dans 72% des cas, de J1 à J19

THE LANCET
Infectious Diseases

Monkeypox virus isolation from a semen sample collected in the early phase of infection in a patient with prolonged seminal viral shedding

(table). Monkeypox virus DNA was detected in plasma collected on day 8 after symptom onset only. Urine samples were negative. Monkeypox virus DNA was detected in all semen samples tested during the period of observation (Cq range 27.8–40.6). Semen collected on day 6 after symptom onset was inoculated in Vero E6 cells (ATCC; Manassas VA, USA). Clear cytopathic effect was observed 48 h after the inoculum and monkeypox virus replication was confirmed by real-time PCR on DNA purified from cell growth medium collected after 48 h, 72 h, and 96 h. Notably, on day 6 after symptom onset, anti-monkeypox virus IgG antibodies (1:80) were

Virus isolé à partir du sperme capable d'infecter des cellules *in vitro*

Détection du virus et lésions cliniques

THE LANCET
Infectious Diseases

Viral loads in clinical samples of men with monkeypox virus infection: a French case series

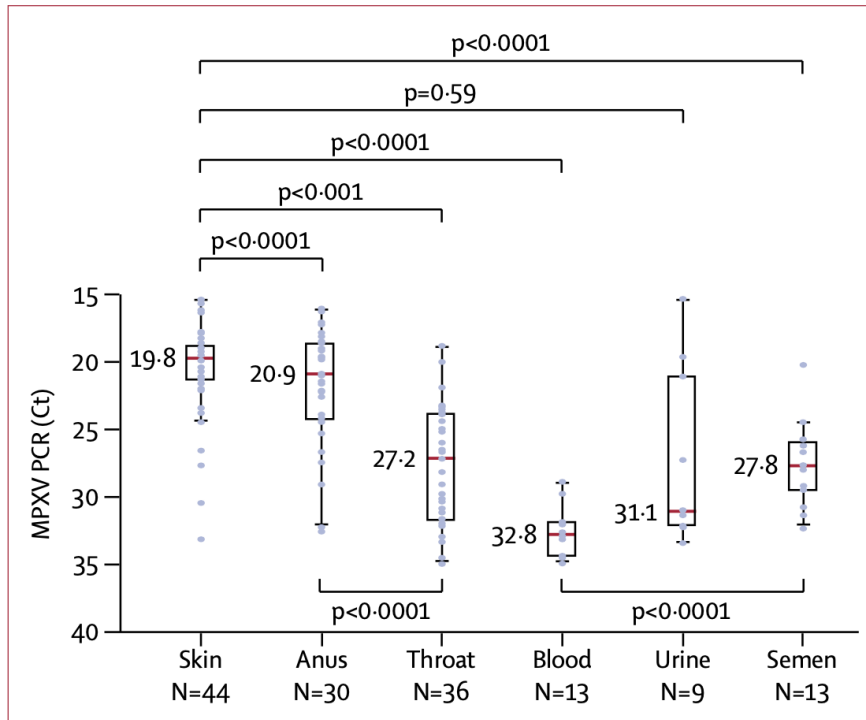
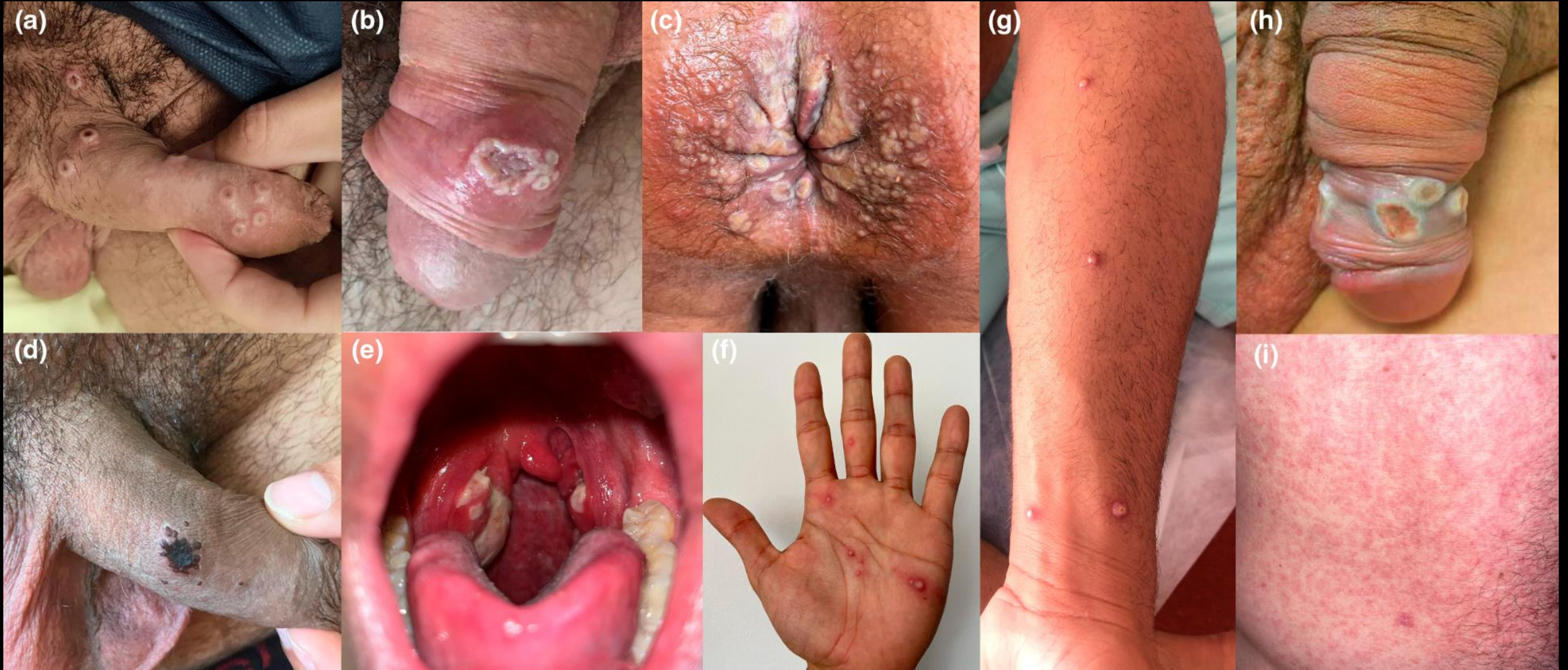


Figure 2: MPXV viral loads given as cycle thresholds, according to sampled sites

from samples collected from the throat or the anus, or both. Regarding body fluids, MPXV was undetected or weakly detected in more than two thirds of blood and urine samples, whereas it was detected in 13 (54%) of 24 semen samples. For cases in which MPXV was detectable, viral loads, inversely reflected by Ct values, were significantly higher from skin lesions (Ct 19.8) than from throat (Ct 27.2), blood (Ct 32.8), or semen (Ct 27.8) and higher from anal samples (Ct 20.9) than from throat samples (figure 2). MPXV viral load was higher in the anal samples of patients with anal ulcers (Ct 19.6 vs 25.3, $p=0.0073$), higher in throat samples of patients with tonsillitis (Ct 23.5 vs 29.0, $p=0.0076$), and higher in semen samples of patients with genital lesions (Ct 26.3 vs 30.2, $p=0.022$). There were no significant differences in MPXV PCR Ct values according to HIV status.

Expression clinique



Lésions cliniques et pratiques sexuelles

THE LANCET

Human monkeypox virus infection in women and non-binary individuals during the 2022 outbreaks: a global case series

- Femmes trans : sexe anal dans 81% des cas, lésions anales dans 76% des cas
- Femmes cis : sexe anal dans 15% des cas, lésions anales dans 24% des cas

	Trans women (n=62)	Cis women and non-binary individuals (n=74)
(Continued from previous page)		
Type of sex		
Anal only	3/62 (5%)	0/74
Oral and anal	47/62 (76%)	1/74 (1%)
Oral only	1/62 (2%)	1/74 (1%)
Vaginal and anal	0/62	1/74 (1%)
Vaginal and oral	0/62	25/74 (34%)
Vaginal only	0/62	17/74 (23%)
Vaginal, oral, and anal	0/62	9/74 (12%)
Not known	11/62 (18%)	20/74 (27%)

	Trans women (n=62)	Cis women and non-binary people (n=74)
(Continued from previous page)		
Vulvar skin lesions (non-mucosal)		
No	59/60 (98%)	29/71 (41%)
Yes	1/60 (2%)	42/71 (59%)
Not known	2	3
Perianal skin lesions (non-mucosal)		
No	14/59 (24%)	55/72 (76%)
Yes	45/59 (76%)	17/72 (24%)
Not known	3	2

Une nouvelle IST !

MPOX

Mpox and Safer Sex

Vaccination is an important tool in preventing the spread of mpox. If you are at risk for mpox but haven't received your two-dose vaccine yet, temporarily changing some parts of your sex life might reduce the risk of being exposed to the virus.

Scan this code for information on mpox vaccines, including where to get one.



Reducing or avoiding behaviors that increase risk of mpox exposure is also important when you are between your first and second shots of vaccine. Your protection will be highest when you are two weeks after your second dose of vaccine.

Make a habit of exchanging contact information with any new partner to allow for sexual health follow-up, if needed.

Talk with your partner about any mpox symptoms and be aware of any new or unexplained rash or lesion on either of your bodies, including the mouth, genitals (penis, testicles, vulva, or vagina), or anus (butthole). If you or your partner have or recently had mpox symptoms or have a new or unexplained rash anywhere on



your body, do not have sex and see a healthcare provider. In some cases, symptoms may be mild, and some people may not even know they have mpox.

If you or a partner has mpox or think you may have mpox, the best way to protect yourself and others is to avoid sex of any kind (oral, anal, vaginal) and kissing or touching each other's bodies – while you are sick. **Especially avoid touching any rash.** Do not share things like towels, fetish gear, sex toys, and toothbrushes.

Even if you feel well, here are some ways to reduce your chances of being exposed to mpox if you are sexually active:

- Take a temporary break from activities that increase exposure to mpox, until you are two weeks after your second dose. This will greatly reduce your risk.

Continue to Next Page →



CS 333304-A | 06/16/2023

Clinical Infectious Diseases

VIEWPOINTS

 IDSA
Infectious Diseases Society of America

 hivma
hiv medicine association

OXFORD

A Position Statement on Mpox as a Sexually Transmitted Disease

Lao-Tzu Allan-Blitz,^{1,2} Monica Gandhi,^{2,3} Paul Adamson,⁴ Ina Park,⁵ Gail Bolan,⁶ and Jeffrey D. Klausner⁷

¹Division of Global Health Equity, Department of Medicine, Brigham and Women's Hospital, USA; ²Division of HIV, Infectious Diseases, and Global Medicine, Department of Medicine, University of California, USA; ³Ward 86 HIV Clinic, San Francisco General Hospital, USA; ⁴Division of Infectious Diseases, Department of Medicine, University of California, USA; ⁵Department of Family and Community Medicine and Department of Obstetrics, Gynecology, and Reproductive Sciences, School of Medicine, University of California, San Francisco, USA; ⁶Berkeley, California; and ⁷Department of Population and Public Health Sciences, Keck School of Medicine, University of Southern California, USA

(See Viewpoints by Hazra and Cherabie on pages 1504–7.)

The global outbreak of mpox virus constituted an international public health emergency. Reports have highlighted (1) a temporal association between sexual activity and mpox, (2) an association between specific sexual practices and location of lesion development, (3) a high frequency of sexual practices conferring risk for other sexually transmitted infections among cases of mpox, (4) that mpox virus can be isolated from sexual fluids, (4) that isolated virus is infectious, and (5) a high frequency of anogenital lesions prior to disease dissemination suggesting direct inoculation during sexual activities. Finally, a growing body of evidence suggests that sexual transmission is the *predominant* mode of transmission for mpox virus. We therefore conclude that mpox is a sexually transmitted disease. Labeling it as such will help focus public health interventions, such as vaccinations, testing, and treatment, as well as facilitate focused awareness and education programs toward behavioral modifications to reduce exposures.

Une maladie bénigne ?

Date and Location	1970–1979 Central and West Africa	1981–1986 DRC	1996–1998 DRC	2003 USA	2005 South Sudan
Case Fatality Rate (%)	17 [40]	9.8 ¹ [41–43]	1.5 ² [44]	No recorded deaths	No recorded deaths

¹ Specifically between 1981 and 1985 the recorded CFR was 9% [43]; ² The low CFR between 1996 and 1997 was suggestive of varicella not MPXV [28].

- Complications rapportées dans les séries africaines historiques : surinfection cutanée, atteintes pulmonaires, digestives, neurologiques / mortalité plus importante chez les enfants
- Aux USA (2005), sur 34 cas confirmés, 5 formes sévères (fièvre $\geq 38,3^{\circ}\text{C}$ et ≥ 100 lésions cutanées), 9 hospitalisations de plus de 48h, aucun décès
- Au Niger (2007-2022), sur 257 cas confirmés, 9 décès, chez des PVVIH fortement immunodéprimés : taux de mortalité de 3,5%

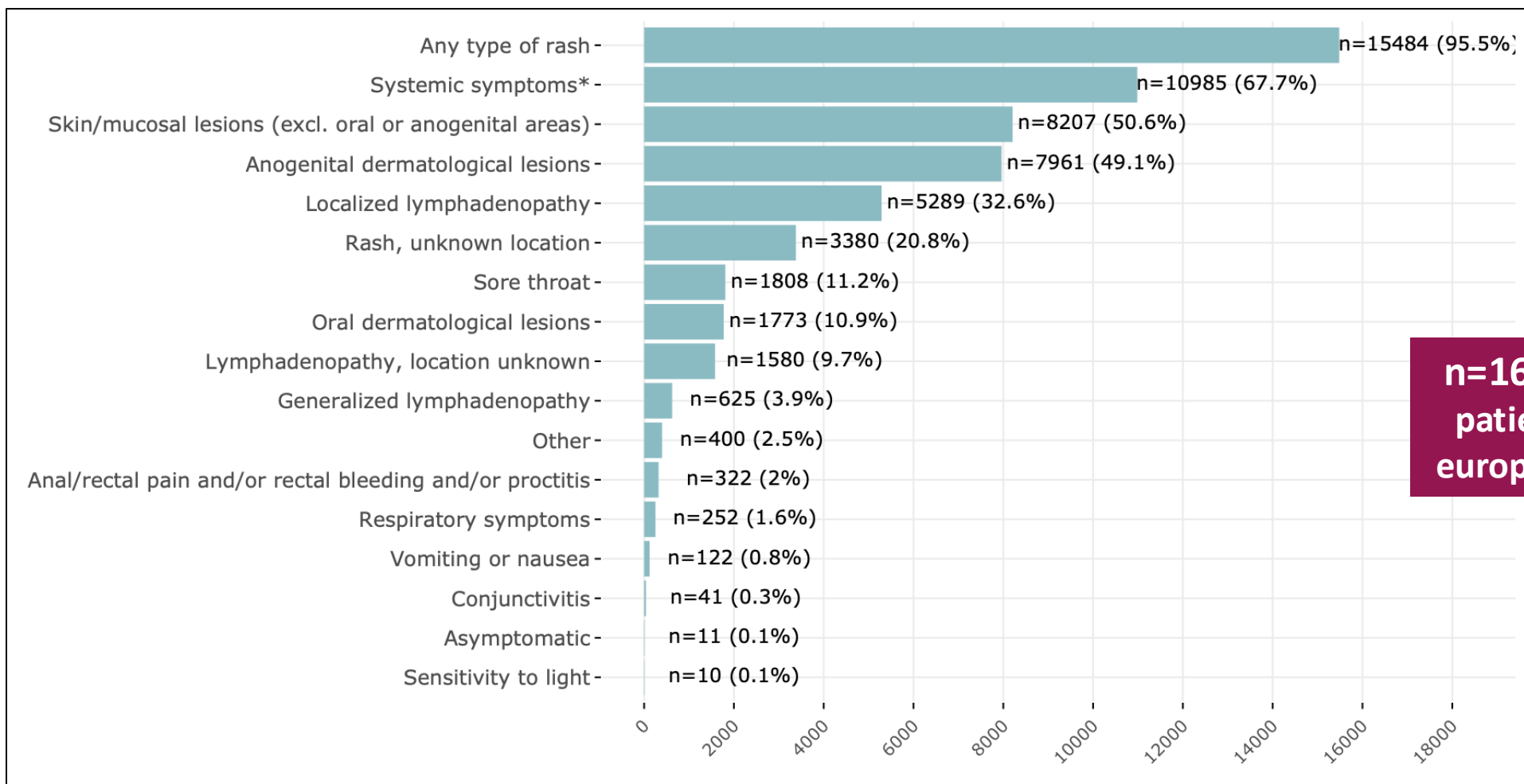


- Clade I / clade II

WHO Region	Total confirmed cases	Total deaths	Cases in last three weeks ⁱ	3-week change in cases (%)
Region of the Americas	59 480	117	67	-50
European Region	25 912	7	22	214
African Region	1 741	21	41	-61
Western Pacific Region	665	0	74	-30
Eastern Mediterranean Region	90	1	0	-
South-East Asia Region	84	1	33	560
Total	87 972	147	237	-34

Pandémie 2022-2023 : 147 décès sur 88 000 cas confirmés = taux de mortalité de 0,17%

Présentation clinique



n=16215
patients
européens

Patients hospitalisés

Patient	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Age (y)	34	35	30	31	44	47	25	28	36								
Medical history	HIV	HIV	None	None	None	Venous thrombosis	None	Cured ALL	HIV Chemsex								
Symptoms																	
Fever	X	X	X		X	X	X	X	X								
Total number of skin lesions	30–50	6–15	6–15	6–15	6–15	6–15	6–15	15–30	6–15								
Lymph nodes	X			X	X	X	X	X	X								
Necrotic cellulitis																	
Reason for hospitalization																	
Paronychia			X	X		X											
Lymphangitis			X	X		X											
Dysphagia		X			X												
Colitis								X									
Rectitis	X							X									
Ocular signs			X														
Urologic	Urethritis								X								
Respiratory																	
Surgical management			X			X											
Antibiotics	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X
Antiviral treatment			Cidofovir														
Pain killers	Opioids	Opioids	Acetaminophen	Acetaminophen	Acetaminophen	Acetaminophen	Nefo-pam	Opioids	Opioids	Acetaminophen	Acetaminophen	Acetaminophen	Opioids	Acetaminophen	Opioids	Nefo-pam	Acetaminophen
Other specialists involved			Ortho-pedist Ophthalmologist	Ortho-pedist	ENT surgeon	Ortho-pedist	Uro-logist	Gastro- entero-logist	Oph-thalmo-logist		Ortho-pedist	Uro-logist Dermatologist	Procto-logist		Gastro- entero-logist	ENT surgeon	ENT surgeon
Length of hospital stay (d)	2	2	7	4	5	3	3	15	3	2	3	3	4	3	3	3	3

The median (IQR) delay between the onset of symptoms and hospitalization was 7 (5–9) days. Hospitalizations were related to skin infections in six cases, gastrointestinal symptoms in four cases, severe non-cardiac angina in four cases, ocular impairment in two cases, and respiratory tract impairment in one case. One patient with an ocular involvement also had paronychia. Overall, all but one patient had a suspicion of bacterial superinfection, and 16 patients received antibiotics. Severe pain was frequent, and all patients required painkillers, including acetaminophen (17/17) and opioids (7/17).

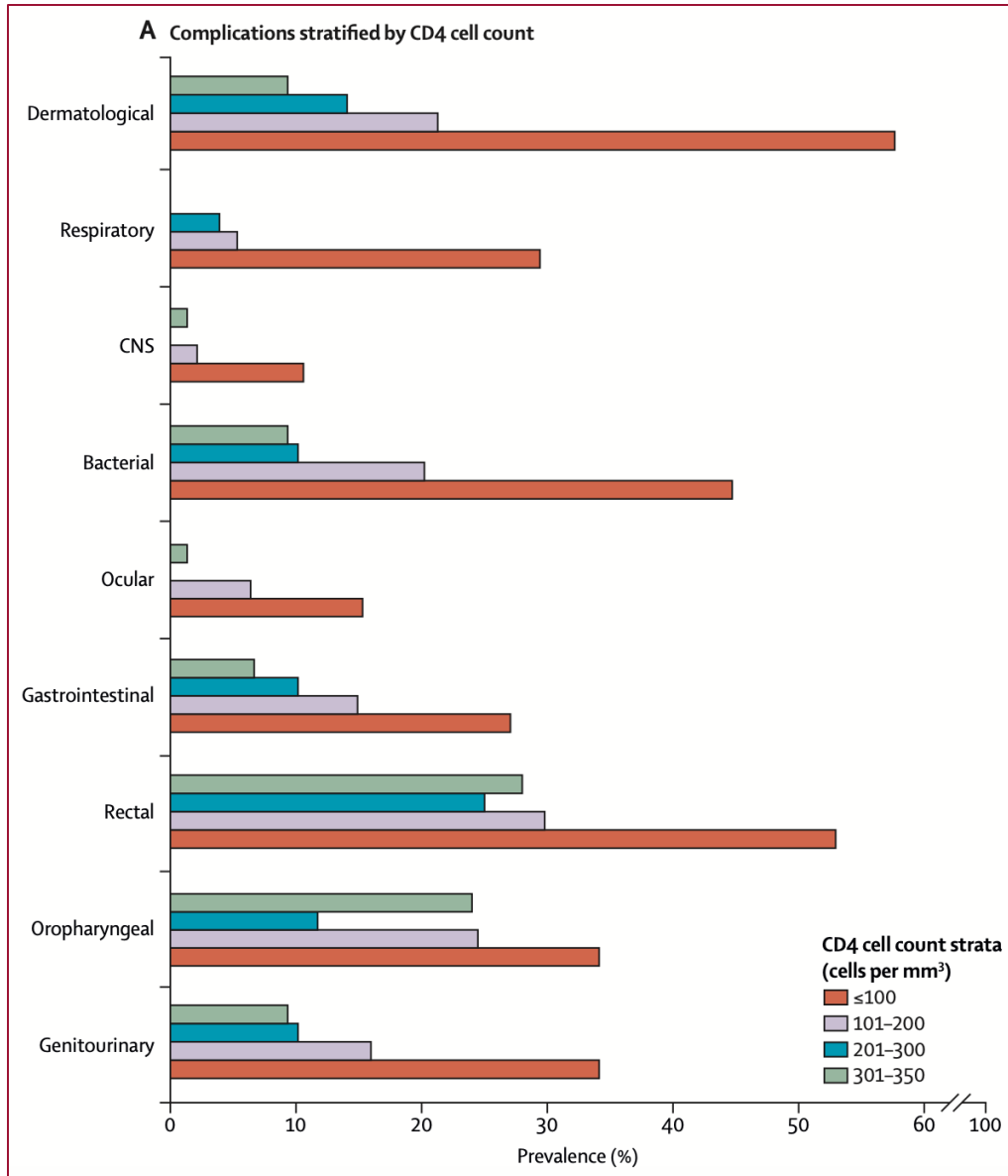
Clinical characteristics of ambulatory and hospitalized patients with monkeypox virus infection: an observational cohort study

- 17 hospitalisations sur 247 cas confirmés, 4 PVVIH avec CD4 >500/mm³, aucun décès
- Surinfections bactériennes fréquentes (16/17 patients sous antibiotiques) + prise en charge de la douleur
- Durée médiane du séjour hospitalier : 3 jours (IQR 3-4)

Expression clinique

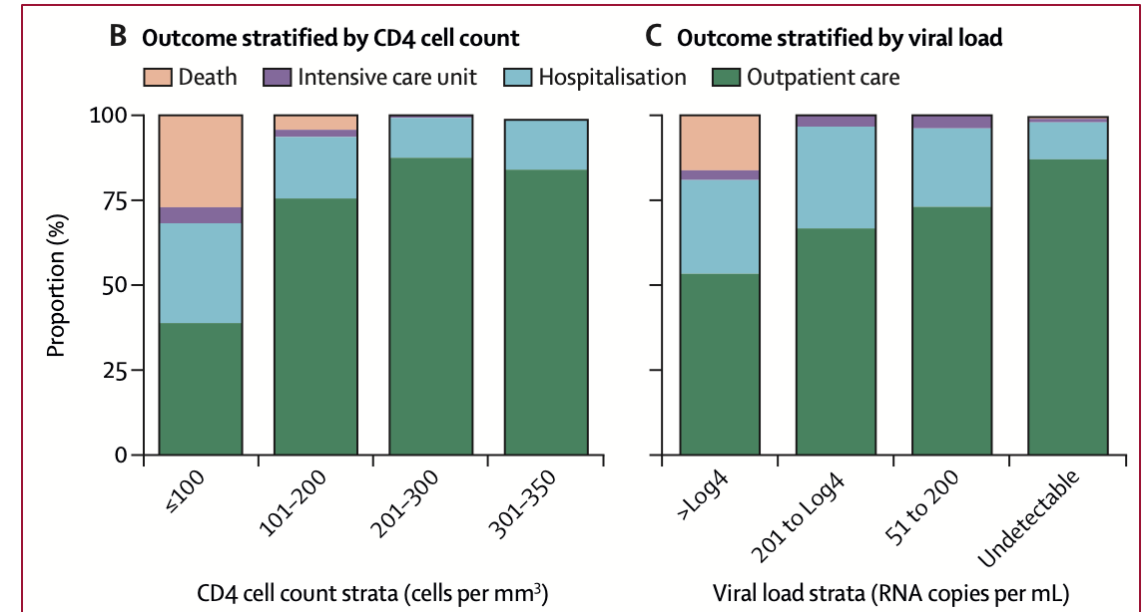


Formes graves de l'immunodéprimé



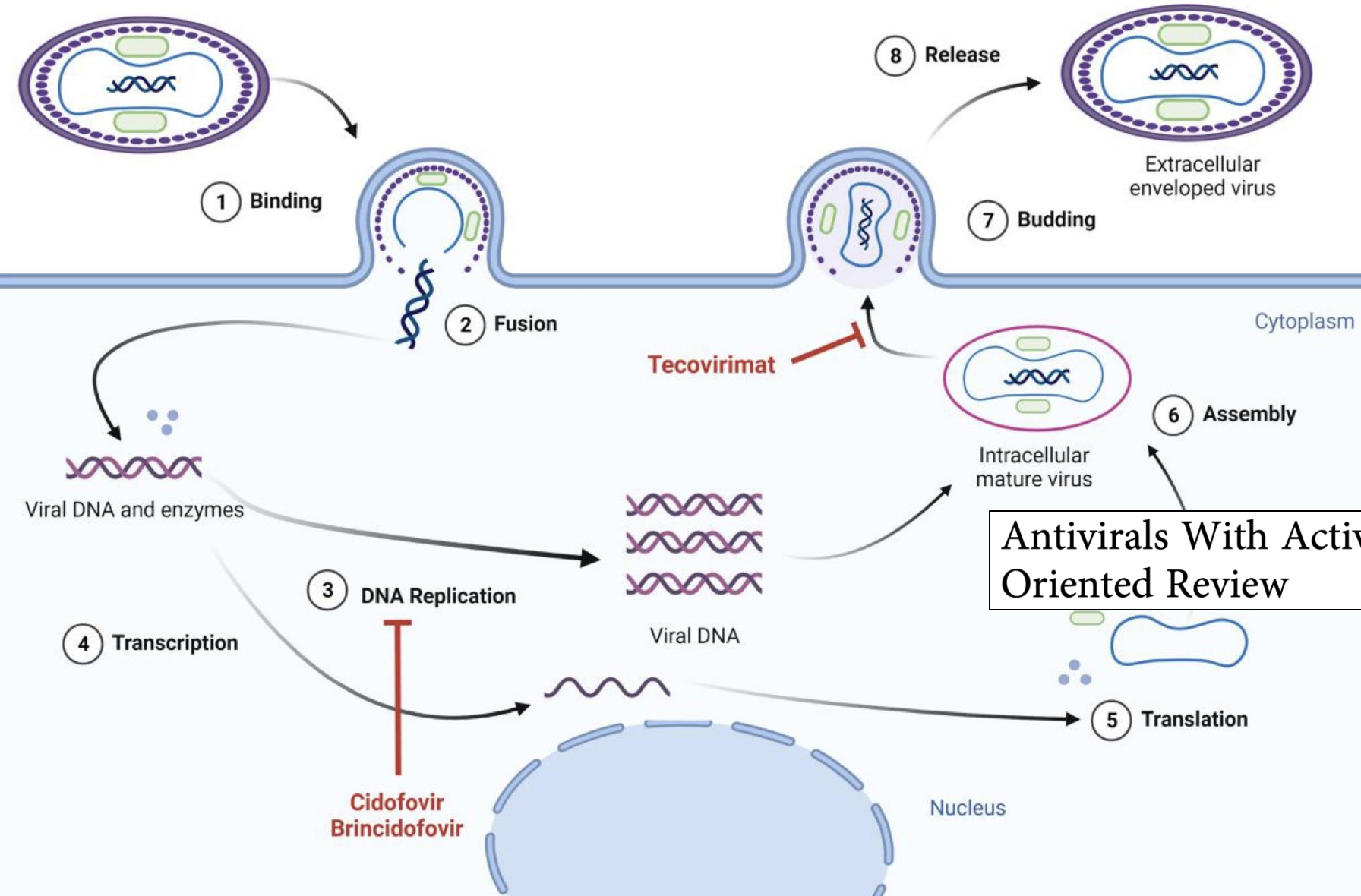
THE LANCET

Mpox in people with advanced HIV infection: a global case series



- 382 PVVIH avec CD4 <350/mm³
- Complications plus fréquentes chez les PVVIH avec des CD4 très bas, 107 hospitalisations (27%) et parmi ces patients, 27 décès, tous en cas de CD4 <200/mm³

Traitements antiviraux



Clinical Infectious Diseases

REVIEW ARTICLE

Antivirals With Activity Against Mpox: A Clinically Oriented Review

Teicovirimat (1/4)

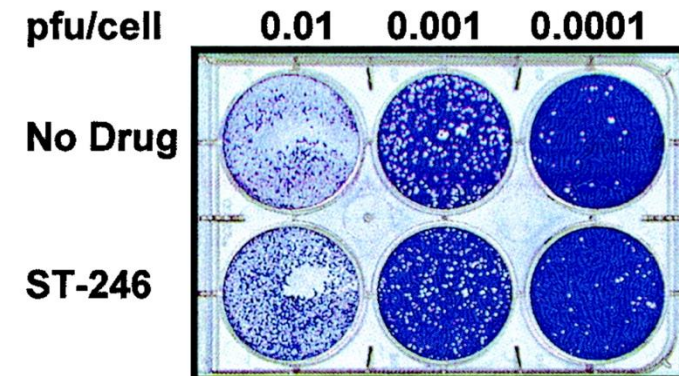
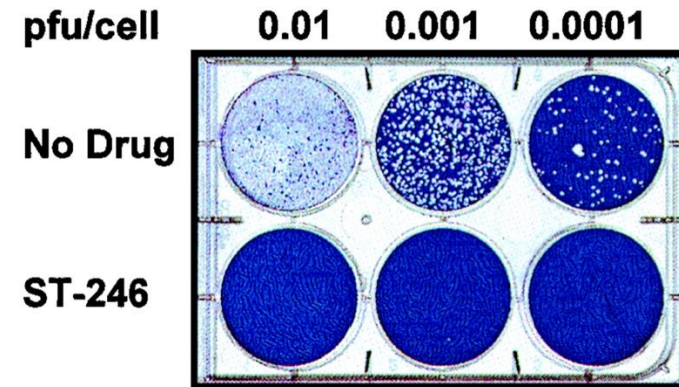


AMERICAN
SOCIETY FOR
MICROBIOLOGY

Journal of
Virology®

An Orally Bioavailable Antipoxvirus Compound (ST-246) Inhibits Extracellular Virus Formation and Protects Mice from Lethal Orthopoxvirus Challenge

Virus (strain)	Family	Classification	EC ₅₀ (μM) ^a
Vaccinia virus (NYCBH)	Orthopoxviridae	Double-stranded DNA	0.01
Variola virus (Butler)	Orthopoxviridae	Double-stranded DNA	0.02
Variola virus (Bangladesh)	Orthopoxviridae	Double-stranded DNA	0.05
Cowpox virus (Brighton Red)	Orthopoxviridae	Double-stranded DNA	0.05
Ectromelia virus (Moscow)	Orthopoxviridae	Double-stranded DNA	0.07
Monkeypox virus (Zaire)	Orthopoxviridae	Double-stranded DNA	0.01
Camelpox virus	Orthopoxviridae	Double-stranded DNA	0.01
Herpes simplex virus type 1	Herpesviridae	Double-stranded DNA	>40
Cytomegalovirus	Herpesviridae	Double-stranded DNA	>40
Respiratory syncytial virus	Paramyxoviridae	Negative single-strand RNA	>40
Rotavirus	Reoviridae	Double-stranded RNA	>40
Bovine viral diarrhea virus	Flaviviridae	Positive single-strand RNA	>40
Rift Valley fever virus	Bunyaviridae	Negative single-strand RNA	>40
Tacaribe virus	Arenaviridae	Ambisense RNA	>40
Lymphocytic choriomeningitis virus	Arenaviridae	Ambisense RNA	>40



- Efficacité *in vitro* sur MPXV (inhibition de la protéine virale VP37, empêchant la formation des virions enveloppés et leur sortie de la cellule)
- Identification de variants viraux résistant au teicovirimat

Teicovirimat (2/4)



The NEW ENGLAND
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Oral Tecovirimat for the Treatment of Smallpox

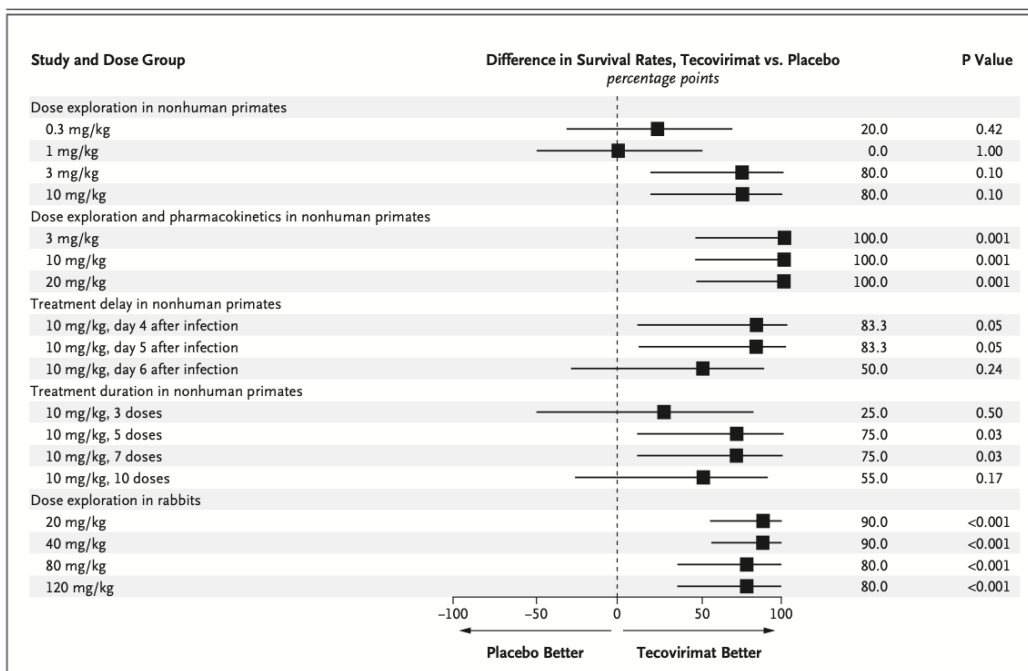
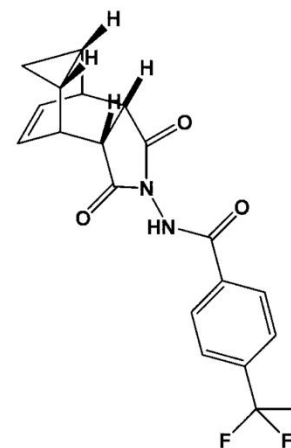


Figure 2. Differences in Survival Rates with Tecovirimat as Compared with Placebo.

Shown is a forest-plot summary comparing differences in survival rates between tecovirimat and placebo in each study. The exact 95% confidence intervals (horizontal bars in the forest plot) are based on the score statistic of the difference in survival rates. The P value is from a one-sided Fisher's exact test for the comparison of tecovirimat with placebo. Data from the study of dose exploration and pharmacokinetics in rabbits are not shown on the forest plot, since the study did not include a placebo control.



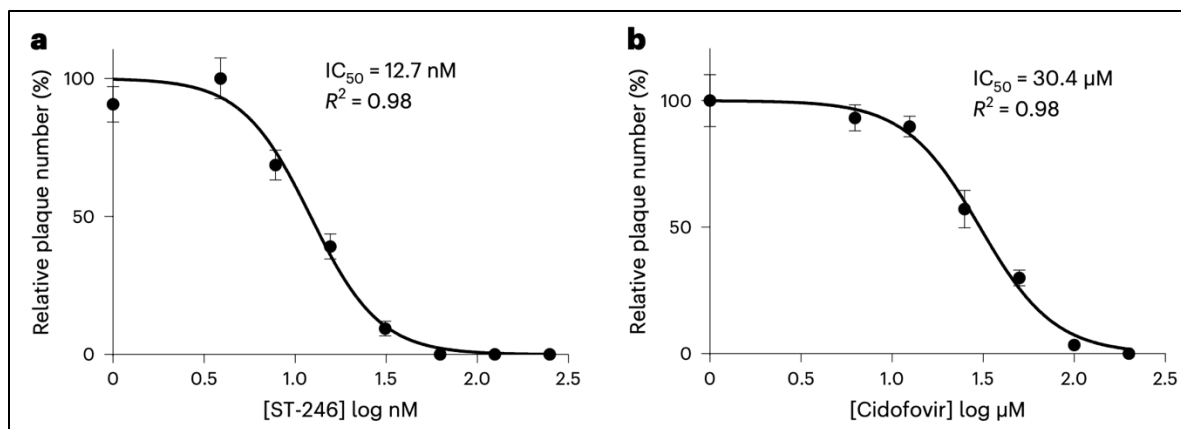
600 mg x2/jour pendant
14 jours (voie orale)

- Efficacité *in vivo* (souris, lapins, primates non humains)
- Pas de données d'efficacité chez l'homme (maladie rare)
- AMM européenne sous circonstances exceptionnelles début 2022 (variole, mpox, cowpox)
- Indication en cas de mpox grave (complications, localisation des lésions) ou de terrain à risque (immunodéprimés, enfants, femmes enceintes, maladies dermatologiques sévères)

Teicovirimat (3/4)

nature microbiology

Tecovirimat is effective against human monkeypox virus in vitro at nanomolar concentrations



Identification of Tecovirimat Resistance-Associated Mutations in Human Monkeypox Virus - Los Angeles County

Patient	Specimen (source)	VP37 mutations detected (allele frequency ^b)
A	A.1 (Unknown)	A290V (0.97)
	A.2 (Unknown)	N267D (0.24), A288P (0.76)
	A.3 (Penis)	N267D (0.38), A288P (0.37), A295E (0.31), I372N (0.22)
	A.4 (Scrotum)	A288P (0.95)
	A.5 (Lt ^g Thigh)	A288P (1.0)
	A.6 (Rt ^h Sole)	A295E (0.82)
	A.7 (Rt Heel)	I372N (0.84)
	A.8 (Lt Back Knee)	N267D (0.55), A288P (0.18), D294V (0.29)
	A.9 (Unknown)	N267D (0.91)
	A.10 (Unknown)	T220A (0.44) ⁱ , A265D (0.50) ⁱ , A295E (0.51)
	A.11 (Lt 2nd Finger)	A288P (0.62) , I372N (0.10)
	A.12 (Lt Medial Thigh)	N267D (0.37), A288P (0.63)
	A.13 (Rt Eyelid)	A288P (1.0)
	A.14 (Tongue)	A288P (1.0)
	A.15 (Rt Forehead)	I372N (0.96)
	A.16 (Lt Forehead)	N267D (0.88) , D294V (0.11)
	A.17 (Between Eyes)	A288P (0.88)
	A.18 (Lt Ear)	I372N (0.94)
	A.19 (Lt Nose)	A288P (0.19), A290V (0.25), I372N (0.35)
	A.20 (Rt Cheek)	A288P (0.12), I372N (0.87)
	A.21 (Lower Lip)	N267D (0.70) , A288P (0.22)
	A.22 (Lt Neck)	A288P (0.85)
	A.23 (Lt Chest)	T220I (0.49) ⁱ , P243S (0.50), A295E (0.51)
	A.24 (Rt Hand)	A290V (0.88)
	A.25 (Lt Elbow)	D294V (1.0)
	A.26 (Lt Shoulder)	H238Q (0.99)
B	B.1 (Unknown)	T245I (0.12) ⁱ , D294V (0.91)
	B.2 (Rt Ear)	H238Q (0.27), A288P (0.21), D294V (0.15), I372N (0.33)
C	C.1 (Unknown)	A290V (1.0)
	C.2 (Unknown)	A290V (1.0)
D	D.1 (Penis)	N267D (0.68) , A288P (0.29)
E	E.1 (Lt Foot Between Toes)	I372N (1.0)
	E.2 (Rt Cheek)	D294V (1.0)
	E.3 (Lt Hand by Thumb)	A290V (1.0)
	E.4 (Lt Foot)	A290V (0.30), I372N (0.86)
	E.5 (Lt Ring Finger)	H238Q (1.0)
	E.6 (Rt Foot)	N267D (0.97)
	E.7 (Lt Foot, Scab)	A290V (0.56), I372N (0.77)
	E.8 (Lt Chin, Scab)	D294V (1.0)
	E.9 (Lt Great Toe)	I372N (1.0)
	E.10 (Lt 4th Finger)	H238Q (1.0)
	E.11 (Rt Medial Foot)	N267D (1.0)
	E.12 (Lt Great Toe, Tissue)	I372N (1.0)
	E.13 (Rt Medial Foot, Tissue)	N267D (0.45), I372N (0.56)

Tecovirimat (4/4)

Tecovirimat Treatment of People With HIV During the 2022 Mpox Outbreak

A Retrospective Cohort Study

Annals of Internal Medicine®

infection

Tecovirimat for the treatment of severe Mpox in Germany

Tecovirimat Resistance in an Immunocompromised Patient With Mpox and Prolonged Viral Shedding

FREE

Annals of Internal Medicine®

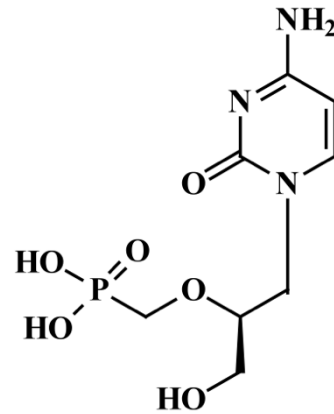
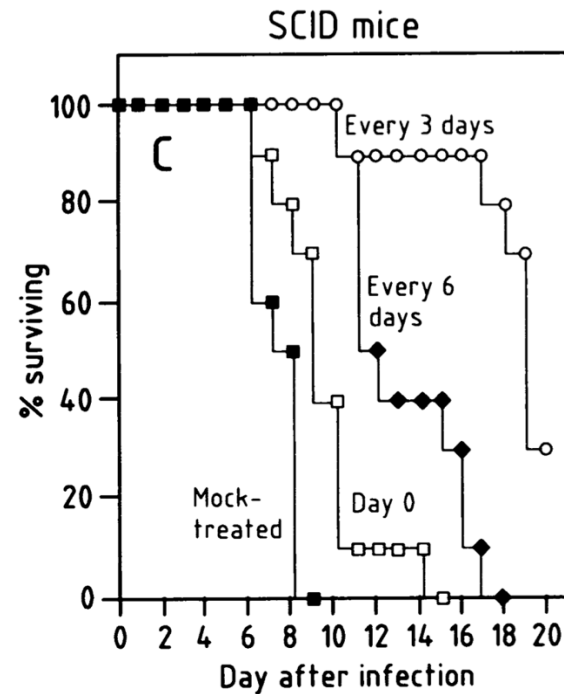
Effect of tecovirimat on healing time and viral clearance by emulation of a target trial in patients hospitalized for mpox

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**MEDICAL
VIROLOGY**

McLean, *Ann Intern Med*, 2023 /
Hermanussen, *Infection*, 2023 /
Mertes, *Ann Intern Med*, 2023 /
Mazzotta, *J Med Virol*, 2023



Cidofovir in the treatment of poxvirus infections



5 mg/kg en une perfusion par semaine pendant 2 semaines (puis entretien possible) + probénécide

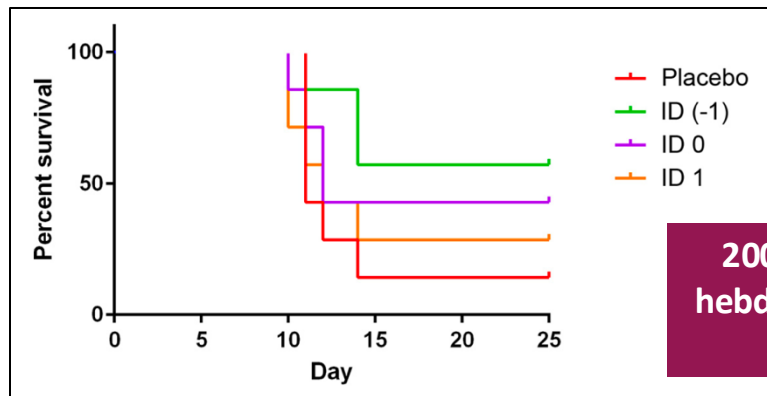
Table 4. Serious Clinical Adverse Events or Laboratory Abnormalities Occurring in > 5% of Patients

	N = 135 ^a # patients (%)	
Proteinuria (≥ 100 mg/dL)	68	(50)
Neutropenia (≤ 500 cells/mm ³)	33	(24)
Decreased Intraocular Pressure ^b	17	(24)
Decreased Serum Bicarbonate (≤ 16 mEq/L)	21	(16)
Fever	19	(14)
Infection	16	(12)
Creatinine Elevation (≥ 2.0 mg/dL)	16	(12)
Pneumonia	12	(9)
Dyspnea	11	(8)
Nausea with Vomiting	10	(7)

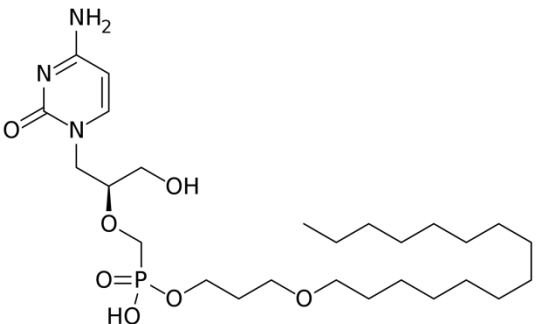
- Efficacité *in vitro* et *in vivo* (animal), pas de données d'efficacité chez l'homme dans l'indication mpox, mais efficacité démontrée dans l'indication molluscum contagiosum

- Forte néphrotoxicité
- AMM = rétinite à CMV (sida)

Pharmacokinetics and Efficacy of a Potential Smallpox Therapeutic, Brincidofovir, in a Lethal Monkeypox Virus Animal Model



200 mg en dose unique
hebdomadaire à répéter la
semaine suivante



- AMM = variole
- Efficacité *in vitro* et *in vivo* (animal), quasiment aucune donnée chez l'homme

Clinical Infectious Diseases

REVIEW ARTICLE

Antivirals With Activity Against Mpox: A Clinically Oriented Review

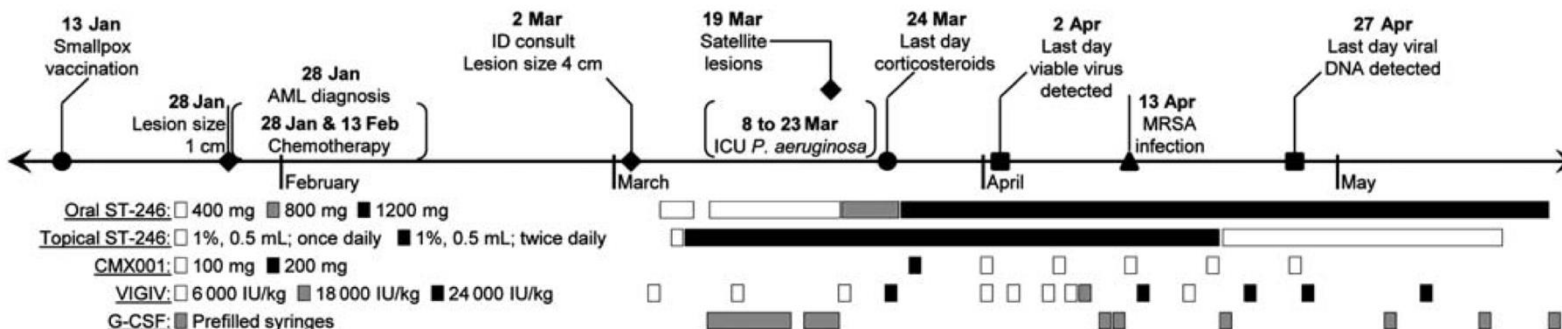
Table 2. Case Reports of Brincidofovir Use in Humans With Poxvirus Infections

Case	Age (Years), Sex	Virus	Risk Factor	Site of Infection	Brincidofovir Dose/Frequency	Duration of Brincidofovir
1	Adult M	Vaccinia	Acute myeloid leukemia diagnosis after smallpox vaccine	Skin (progressive vaccinia)	100 mg orally once a week (initial dose 200 mg)	6 weekly doses
2	30–40, M	Mpox	Travel to endemic area	Skin	200 mg orally	One dose
3	30–40, M	Mpox	Travel to endemic area	Skin, deep soft tissue abscesses	200 mg orally once a week	Two doses
4	30–40, F	Mpox	Exposure to patient with mpox	Skin, conjunctivitis, subungual lesion	200 mg orally once a week	Two doses
5	17, M	Cowpox	Exposure to pet cat, renal transplant recipient	Skin, tonsils, disseminated	Not reported	Not reported

Immunoglobulines anti-vaccine

The Journal of
Infectious
Diseases

Progressive Vaccinia: Case Description and Laboratory-Guided Therapy With Vaccinia Immune Globulin, ST-246, and CMX001



Lésions cicatricielles au long cours ?



- 70 patients avec mpox évalués initialement
- 35 patients revus en consultation à 20-23 mois de l'épisode aigu
- **Cicatrices chez 25 patients (63%)**
 - Macules hyperpigmentées (36%)
 - Cicatrices déprimées (32%)
 - Macules hypopigmentées (16%)
 - Lésions hypertrophiques (8%)
- **Cicatrices significativement plus fréquentes chez les sujets de phototype foncé (IV, V ou VI)**

Impact psychologique ?

eClinicalMedicine
Part of THE LANCET Discovery Science

Experiences of mpox illness and case management among cis and trans gay, bisexual and other men who have sex with men in England: a qualitative study

T Charles Witzel,^{a,*} Andrew Ghobrial,^a Romain Palich,^{a,b} Hannah Charles,^c Alison J. Rodger,^a Caroline Sabin,^{a,d} Alex Sparrowhawk,^e Erica R. M. Pool,^a Mateo Prochazka,^f Roberto Vivancos,^{c,g,h} Katy Sinka,^c Kate Folkard,^c Fiona M. Burns,^a and John Saunders^{a,c,d}

- **Etude qualitative, 22 HSH, un an après l'épisode aigu de mpox**
- Diffusion de stéréotypes homophobes dans les médias, majorant la stigmatisation et la honte
- Les PVVIH avaient mieux supporté la stigmatisation grâce à leur expérience passée liée au VIH
- Les plus jeunes hommes gay avaient vécu le diagnostic plus traumatisant et exprimaient un besoin accru de soutien
- Accès au dépistage de mpox parfois très compliqué lorsque les professionnels de santé ne reconnaissaient pas les symptômes
- Informations contradictoires sur l'évolution de la maladie, l'isolement et la vaccination après la guérison
- La prise en charge hospitalière et le traçage des contacts renforçaient la stigmatisation
- L'impact à long terme incluait des troubles mentaux, ainsi que des symptômes urétraux ou rectaux persistants

Recontaminations possibles ?

THE LANCET

Mpox in people with past infection or a complete vaccination course: a global case series

- 37 cas de réinfection à MPXV malgré un premier épisode (112 jours avant, en médiane – n=8) et/ou une vaccination double-dose (42 jours avant, en médiane – n=30)
- Tableaux cliniques moins sévères au cours du deuxième épisode de mpox

	Mpox after first infection		Mpox infection after two MVA-BN vaccines (n=30)
	First infection (n=8)	Second infection (n=8)	
Median score by category			
Active lesion burden, number†	1	1	1
Lesion burden, extent of body involvement‡	1-5	1	1
Confluent lesion or lesions with diameter >2 cm	0	0	0
Treatment for bacterial superinfection	0	0	0
Mucosal areas affected§¶	3	2	0
Level of care	1	1	1
Pain, analgesia requirement**	1	0	0
Overall score	7 (7-10); 3-12	5-5 (4-7); 3-10	5 (3-7); 3-11

Data are median or median (IQR); range. MVA-BN=Modified Vaccinia Ankara-Bavarian Nordic. *Each category ranges in score between 1 and 4; the sum of scores ranges from 1 through 23; full scoring system available in the appendix (p 4). †Includes only pox lesions. Healed lesions (scab absent and fresh skin present) not included. Rash from erythema multiforme or any other causes not included. ‡Includes each area as discrete area (head or neck; chest or abdomen; back; groin, buttocks, or anus; left arm; left hand; right arm; right hand; left leg; left foot; right leg; and right foot). §Includes each area as discrete area (anorectal; oropharyngeal; genital [solely mucosal]; and ocular). ¶Includes proctitis, urethritis, and oropharyngitis in the absence of lesions. ||Highest level of care required (outpatient; inpatient, non-intensive care unit related to mpox; inpatient, intensive care unit related to mpox; and death). **Highest level of analgesia required (no pain medication; outpatient over-the-counter pain medication, including topical; inpatient, oral pain medication; inpatient, intravenous pain medications).

Table 3: Mpox severity score system calculations*



merci pour votre attention