Projet de recherche : Résultats des générations de résumés

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1 Résumé à partir de clusters prédéfinies

- $-s_i$ is the weight of a given sentence,
- $-w_i$ is the weight of a given word,
- -n is the number of words in a sentence

1.1 Sélection des phrases avec les meilleurs poids par cluster, en fonction de la moyenne des poids des mots

$$s_i = \frac{1}{n} \sum_{i=1}^{n} w_i$$

Immediate cART initiation significantly reduces risk of cancer. The dominant ileum B cell response was to Env gp41. The test group will receive training. The primary outcomes were HIV transmission at 1 week of age in the infant and maternal and infant safety. HIV contributes substantially to child mortality, but factors underlying these deaths are inadequately described.

1.1.1 Les 20 mots-clés les plus importants du Cluster n°1

woman	0.054449	disease	0.024078
patient	0.049414	prevalence	0.023820
risk	0.035948	month	0.023242
treatment	0.032350	diagnosis	0.023158
man	0.030817	sexual	0.022565
incidence	0.030449	acute	0.022406
year	0.029035	adult	0.022080
testing	0.026083	positive	0.021920
care	0.025017	test	0.021780
associate	0.024771	health	0.021750

1.1.2 Les 10 meilleurs phrases sélectionnés du Cluster n°1

Sentence	Weight	
Immediate cART initiation significantly reduces risk of cancer.	0.009412	
Early HIV testing is critical to prevention and timely treatment.	0.007812	
To determine the incidence of HIV during pregnancy as defined by seroconversion	0.006935	
using a repeat HIV rapid testing strategy during late pregnancy.	0.000933	
The prevalence of late ART initiation was high.	0.006802	
Early HIV diagnosis, enrollment on antiretroviral treatment, and isoniazid prophy-	0.006790	
laxis treatment should be considered to decrease the TB risk.	0.000790	
A delay presentation for human immunodeficiency virus (HIV) patient's care (that		
is late engagement to HIV care due to delayed HIV testing or delayed linkage for	0.006688	
HIV care after the diagnosis of HIV positive) is a critical step in the series of HIV		
patient care continuum.		
Genital ulcer disease (GUD) is a major risk factor for human immunodeficiency	0.006657	
virus (HIV) transmission.	0.000037	
Older age and baseline CD8 cell count were independent predictors of infection-	0.006581	
unrelated cancer.	0.000361	
These results highlight the substantial risk of transmission during acute HIV infec-	0.006580	
tion.	0.000380	

1.1.3 Les 20 mots-clés les plus importants du Cluster n°2

cell	0.085219	antibody	0.029279
subtype	0.058979	resistance	0.028890
response	0.053972	plasma	0.028825
virus	0.040775	acute	0.028537
viral	0.040014	neutralize	0.028087
isolate	0.039945	level	0.027754
individual	0.033167	env	0.027502
sequence	0.033069	immune	0.027150
primary	0.030091	gag	0.026829
specific	0.030033	associate	0.026642

1.1.4 Les 10 meilleurs phrases sélectionnés du Cluster n°2

Sentence	Weight
The dominant ileum B cell response was to Env gp41.	0.012922
SIVmac grew equally well in both cell lines.	0.011398
Regulatory T cells (Tregs) have the potential to control systemic immune activation	0.010153
but also to suppress antigen specific T and B cell response. Primary HIV-1 drug resistance was low.	0.009562
HIV viral loads and peripheral blood CD4+ T cell counts were measured in all subjects.	0.009487
Here, we assessed CD8+ T cell functional evolution from primary to chronic HIV infection.	0.009176
ART was not associated with an increase in CD161++CD8+ T cell frequency.	0.009165
Higher set point viral load, lower early CD4+ cell count, and more-symptomatic acute HIV-1 illness each predicted death.	0.008913
The superinfected individual mounted a neutralizing antibody response to the primary TF virus, which remained TF-specific over time and even after superinfection, did not neutralize the superinfecting variant.	0.008774
Additionally, HIV-specific cytolytic CD4+ T cell responses in acute HIV infection are predictive of disease progression.	0.008612

1.1.5 Les 20 mots-clés les plus importants du Cluster n°3

test	0.075072	care	0.033174
ahi	0.066854	positive	0.032452
testing	0.060238	antibody	0.031870
acute	0.039772	risk	0.031413
assay	0.039621	patient	0.030348
sample	0.039450	incidence	0.029061
blood	0.038846	diagnosis	0.028825
rapid	0.037243	detect	0.028673
donor	0.034822	cost	0.028433
participant	0.033388	estimate	0.028138

1.1.6 Les 10 meilleurs phrases sélectionnés du Cluster n°3

Sentence	Weight
The test group will receive training.	0.015217
Mobilized participants received clinic-based rapid antibody testing and point-of-care	0.014584
HIV RNA testing.	0.014364
Available antibody testing cannot detect an acute HIV infection, but repeat testing	0.013351
after 2-4 weeks may detect seroconversion.	0.013331
Combo test results were reported as antigen positive, antibody positive, or both.	0.013249
Whole blood was used for Plasmodium falciparum rapid test determination at	0.013200
screening visit.	0.013200
The p24 ELISA antigen test remained positive at 5 pg/mL.	0.012151
Rapid testing was conducted with parallel testing in the clinic and serial testing in	0.012109
the center.	0.012109
Future directions for HIV testing include rapid testing technology and detection of	0.011754
acute HIV infection, self-testing expansion, and partner notification.	0.011754
Assays that detect p24 antigen reduce the diagnostic window period of HIV testing.	0.011280
Concordance of cobas HIV-1/2 Qual test with the comparator serological test and	0.011270
COBAS AmpliPrep/COBAS TaqMan test was $\geq 99.6\%$ with all sample types.	0.011210

1.1.7 Les 20 mots-clés les plus importants du Cluster n°4

infant	0.321222	pmtct	0.049729
mother	0.150459	mtct	0.049637
week	0.112531	woman	0.048541
child	0.082790	birth	0.045351
transmission	0.074193	rate	0.044278
expose	0.063175	mortality	0.042816
month	0.061769	diagnosis	0.039777
maternal	0.056052	prophylaxis	0.038537
age	0.052444	test	0.038504
pcr	0.050343	receive	0.038387

1.1.8 Les 10 meilleurs phrases sélectionnés du Cluster n°4

Sentence	Weight
The primary outcomes were HIV transmission at 1 week of age in the infant and	0.048036
maternal and infant safety.	0.040030
Earlier diagnosis is necessary to reduce infant mortality.	0.046573
We measured MTCT prevalence at 4-12 weeks post-delivery and evaluated associa-	
tions between infant HIV infection and maternal and infant characteristics including	0.042277
maternal treatment and infant prophylaxis.	
HIV is a major contributor to infant mortality.	0.040948
Early initiation of antiretroviral therapy reduces HIV-related infant mortality.	0.040424
Early initiation of antiretroviral therapy depends on an early infant diagnosis and	0.039532
is critical to reduce HIV-related infant mortality.	0.039332
Early infant diagnosis using HIV-RNA/PCR or HIV-DNA/PCR >6 weeks.	0.032818
A significant gap remains between the uptake of infant and maternal antiretroviral	
regimens and only a minority of HIV-exposed infants receives prophylaxis and safe	0.029961
infant feeding.	
Early HIV-1 diagnosis with antiretroviral therapy before symptomatic disease is	0.029139
critical for infant survival.	0.029139
Antiretroviral therapy is often initiated too late to impact early HIV-related infant	0.029108
mortality.	0.029108

1.1.9 Les 20 mots-clés les plus importants du Cluster n°5

child	0.249055	month	0.046241
mortality	0.129734	diagnosis	0.043173
year	0.097707	associate	0.042511
age	0.075610	tuberculosis	0.036155
patient	0.064384	die	0.035661
infect	0.058968	person	0.034310
death	0.058359	lftu	0.033884
treatment	0.058161	initiation	0.033880
clinical	0.053035	care	0.032937
stage	0.047929	predictor	0.031883

1.1.10 Les 10 meilleurs phrases sélectionnés du Cluster n°5

Sentence	Weight
HIV contributes substantially to child mortality, but factors underlying these deaths	0.023813
are inadequately described.	0.023613
All except one child were on antiretroviral treatment, 45% had commenced treat-	0.023143
ment < 12 months of age.	0.025145
To determine the impact of HIV on child mortality and explore potential risk fac-	
tors for mortality among HIV-infected and HIV-exposed uninfected children in a	0.020463
longitudinal cohort in rural Uganda.	
LTFU of HIV infected children was common with an incidence of 32.9 per 1000	
child years and occurred early in treatment and risk factors included poverty, low	0.019670
caregiver education, male child and early HIV disease stage.	
Efforts should be intensified to prevent maternal to child transmission of HIV infec-	0.019589
tion.	0.019569
We assessed overall mortality and stratified by year using random effects models.	0.019496
Increased mortality and attrition were also associated with advanced clinical stage,	0.019482
underweight and diagnosis of tuberculosis at programme entry.	0.019462
Intensified efforts to prevent mother-to-child transmission of HIV and ensure early	
HIV diagnosis and treatment are required to decrease child mortality caused by HIV	0.019027
in rural Africa.	
Early HIV testing and ART initiation is recommended to decrease mortality.	0.017052
Median age of antiretroviral treatment commencement was 3.9 years.	0.016493

2 Génération de nouveaux clusters par titres

2.1 Déroulement de l'algorithme

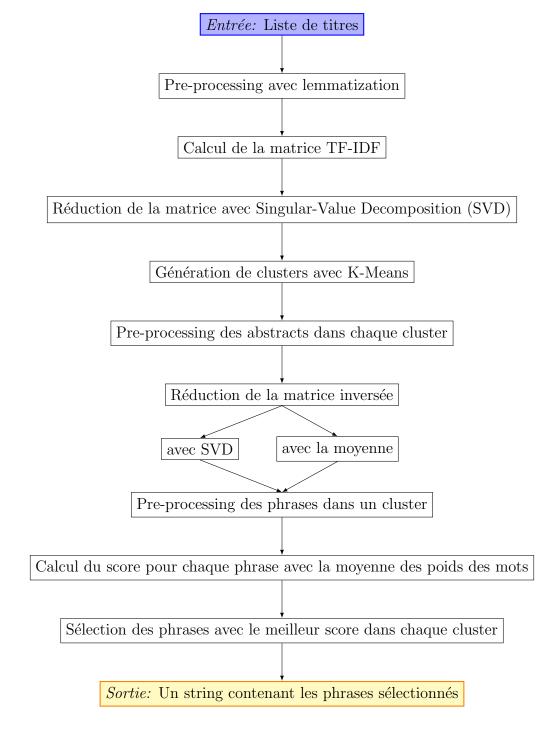


Figure 1: Processus de génération de résumé

2.2 Pre-processing

Avant:

- Integrating Enhanced HIV Pre-exposure Prophylaxis Into a Sexually Transmitted Infection Clinic in Lilongwe: Protocol for a Prospective Cohort Study.
- Subtle Longitudinal Alterations in Env Sequence Potentiate Differences in Sensitivity to Broadly Neutralizing Antibodies following Acute HIV-1 Subtype C Infection.

- Evaluation of multi-assay algorithms for cross-sectional HIV incidence estimation in settings with universal antiretroviral treatment.
- Blood Center Testing Allows the Detection and Rapid Treatment of Acute and Recent HIV Infection.
- Determinants of therapy failure among adults on first-line antiretroviral therapy in Asmara, Eritrea: a multicenter retrospective matched case-control study.

- ...

Après:

- integration enhancement hiv prophylaxis sexually transmission infection clinic lilongwe protocol prospective cohort study
- subtle longitude alteration env sequence potentiation difference sensitivity broadly neutralization antibody follow acuteness subtype c infection
- evaluation algorithm hiv incidence estimation setting universality antiretroviral treatment
- blood center test allows detection rapidness treatment acuteness recentness hiv infection
- determinant therapy failure among adult antiretroviral therapy asmara eritrea multicenter retrospective match study

- ...

2.3 Génération de la matrice TF-IDF

(0 , 1319)	0.1950836305165142
(0, 224)	0.2281698065098795
(0 , 1097)	0.2837733507379278
(630 , 693)	0.21815162158344456
(630 , 1319)	0.17743986539841738

Les nombres en gras représentent l'ID des documents tels que définis dans le df-hover.

2.4 Réduction de la matrice TF-IDF avec SVD

0	0.21477022	-0.08277971
1	0.14659218	0.14764311
2	0.16427717	-0.11110283
•••		
628	0.11636404	-0.04386011
629	0.20987265	-0.00163095
630	0.09651352	-0.05994855

Les nombres en gras représentent l'ID des documents tels que définis dans le df-hover.

2.5 Clustering avec K-Means

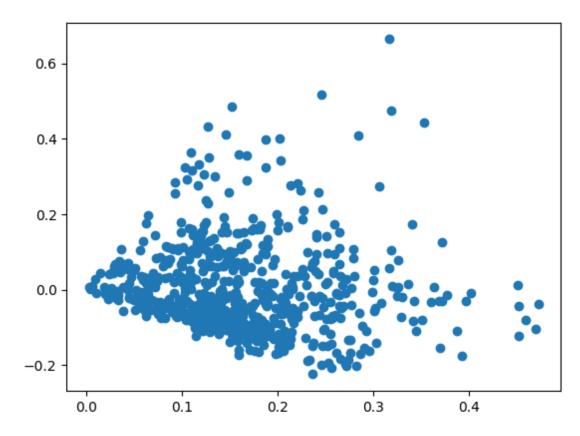


Figure 2: Représentation des documents

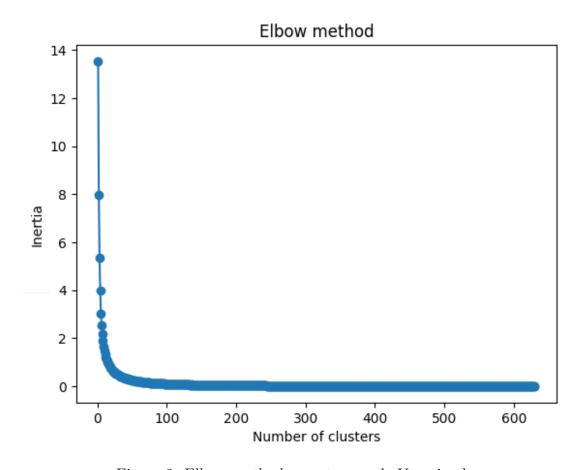


Figure 3: Elbow method pour trouver le K optimale

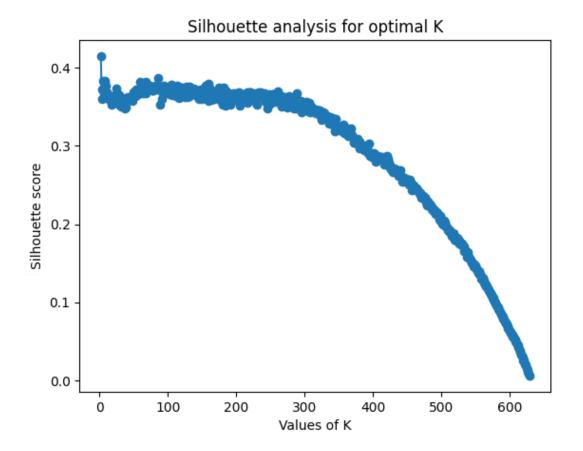


Figure 4: Analyse silhouette pour trouver le K optimale

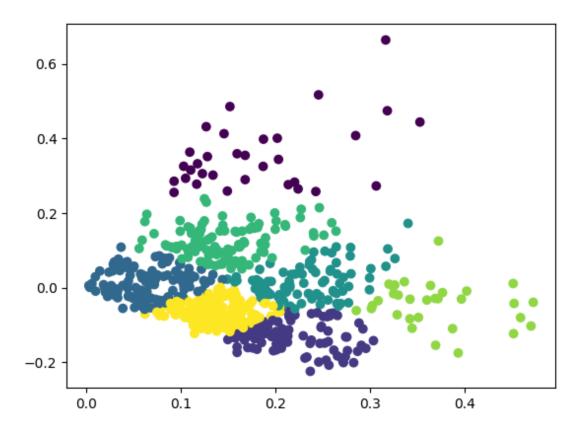


Figure 5: Documents clusterisés

- Cluster n°1 (106 documents)

- Subtle Longitudinal Alterations in Env Sequence Potentiate Differences in Sensitivity to Broadly Neutralizing Antibodies following Acute HIV-1 Subtype C Infection.
- Infection with HIV-1 subtype D among acutely infected Ugandans is associated with higher median concentration of cytokines compared to subtype A.
- A neutralizing antibody target in early HIV-1 infection was recapitulated in rhesus macaques immunized with the transmitted/founder envelope sequence.
- HIV-1 infections with multiple founders associate with the development of neutralization breadth.
- ADCC-mediating non-neutralizing antibodies can exert immune pressure in early HIV-1 infection.

- ..**.**

- Cluster n°2 (91 documents)

- Integrating Enhanced HIV Pre-exposure Prophylaxis Into a Sexually Transmitted Infection Clinic in Lilongwe: Protocol for a Prospective Cohort Study.
- Evaluation of multi-assay algorithms for cross-sectional HIV incidence estimation in settings with universal antiretroviral treatment.
- Determinants of therapy failure among adults on first-line antiretroviral therapy in Asmara, Eritrea: a multicenter retrospective matched case-control study.
- Maternal retention and early infant HIV diagnosis in a prospective cohort study of HIVpositive women and their children in Malawi.
- Tuberculosis prevalence, incidence and prevention in a south african cohort of children living with HIV.

- ..

- Cluster n°3 (33 documents)

- Blood Center Testing Allows the Detection and Rapid Treatment of Acute and Recent HIV Infection.
- Testing strategies to detect acute and prevalent HIV infection in adult outpatients seeking healthcare for symptoms compatible with acute HIV infection in Kenya: a costeffectiveness analysis.
- Burden of sexually transmitted infections from acute HIV infection among women in South Africa: Evidence from a prospective cohort study.
- Predictors of testing history and new HIV diagnosis among adult outpatients seeking care for symptoms of acute HIV infection in coastal Kenya: a cross-sectional analysis of intervention participants in a stepped-wedge HIV testing trial.
- Effect of an opt-out point-of-care HIV-1 nucleic acid testing intervention to detect acute and prevalent HIV infection in symptomatic adult outpatients and reduce HIV transmission in Kenya: a randomized controlled trial.

– ...

- Cluster n°4 (103 documents)

– CCR5- Δ 32 gene variant frequency in the Nigerian and Zimbabwean populations living in North Cyprus.

- CD4 T cells are rapidly depleted from tuberculosis granulomas following acute SIV coinfection.
- Deep sequencing of the HIV-1 polymerase gene for characterisation of cytotoxic T-lymphocyte epitopes during early and chronic disease stages.
- Bringing social context into global biomedical HIV cure-related research: An urgent call to action.
- T cell-tropic HIV efficiently infects alveolar macrophages through contact with infected CD4+ T cells.

- ...

- Cluster n°5 (30 documents)

- Comparison of two nucleic acid amplification technology systems for detection of human immunodeficiency virus, hepatitis B virus, and hepatitis C virus.
- Preferential Infection of $\alpha 4\beta 7+$ Memory CD4+ T Cells During Early Acute Human Immunodeficiency Virus Type 1 Infection.
- Cost-Effectiveness of Community-based Human Immunodeficiency Virus Self-Testing in Blantyre, Malawi.
- Dynamics and Correlates of CD8 T-Cell Counts in Africans with Primary Human Immunodeficiency Virus Type 1 Infection.
- Impact of using different blood donor subpopulations and models on the estimation of transfusion transmission residual risk of human immunodeficiency virus, hepatitis B virus, and hepatitis C virus in Zimbabwe.

- ...

- Cluster n°6 (31 documents)

- Peer Mobilization and Human Immunodeficiency Virus (HIV) Partner Notification Services Among Gay, Bisexual, and Other Men Who Have Sex With Men and Transgender Women in Coastal Kenya Identified a High Number of Undiagnosed HIV Infections.
- Human Immunodeficiency Virus (HIV) Genetic Diversity Informs Stage of HIV-1 Infection Among Patients Receiving Antiretroviral Therapy in Botswana.
- Novel Criteria for Diagnosing Acute and Early Human Immunodeficiency Virus Infection in a Multinational Study of Early Antiretroviral Therapy Initiation.
- Evolution and Diversity of Immune Responses during Acute HIV Infection.
- Human Immunodeficiency Virus (HIV) Drug Resistance, Phylogenetic Analysis, and Superinfection Among Men Who Have Sex with Men and Transgender Women in Sub-Saharan Africa: HIV Prevention Trials Network (HPTN) 075 Study.

- ...

- Cluster n°7 (147 documents)

- Prevalence of drug resistant HIV-1 forms in patients without any history of antiretroviral therapy in the Republic of Guinea.
- Predicting HIV Status among Men Who Have Sex with Men in Bulawayo & Harare, Zimbabwe Using Bio-Behavioural Data, Recurrent Neural Networks, and Machine Learning Techniques.
- Trends and predictors of modern contraceptive use among married women: Analysis of 2000-2016 Ethiopian Demographic and Health Surveys.

- Quantitative interpretation of Sedia LAg Assay test results after HIV diagnosis.
- Epidemiology of Kaposi's sarcoma in sub-Saharan Africa.

- ...

- Cluster n°8 (90 documents)

- Clinical signs and symptoms associated with acute HIV infection from an intensely monitored cohort on 2 continents.
- Brief Report: Blood and Genital Fluid Viral Load Trajectories Among Treated and Untreated Persons With Acute HIV Infection in Malawi.
- Evaluation of serological assays for the diagnosis of HIV infection in adults.
- The Role of Inflammasome Activation in Early HIV Infection.
- Predicting, Diagnosing, and Treating Acute and Early HIV Infection in a Public Sector Facility in Eswatini.

- ...

2.6 Résumé généré avec la moyenne des poids de mots

Sixteen men with acute HIV infection and 25 men with chronic HIV infection were studied. Of these, 864 HIV exposed infants had DNA-PCR HIV test results available. Of the participants 838 were HIV negative, 163 had established HIV infection, and 8 had acute HIV infection. 8 (25%) of the patients were HIV seropositive. Eighty-nine women had multiple viral genotypes, while 67 women had a single genotype at primary infection. Five-hundred and fifty-three men (40.6%) were HIV antibody positive and 24 (1.8%) had acute HIV infection; 23 of 24 acutely infected men were from the STD clinic, where they represented 4.5% of all HIV antibody-negative men and 5.0% of all HIV infections. Overall, the HIV prevalence using the HIVSS test was 8.2% (93/1129). Overall, 30 patients (1.0%) had acute HIV infection, 56 (1.8%) had early HIV infection, and 238 (8%) had established HIV infection.

2.6.1 Excluant les phrases détaillant les participants à la recherche

The overall prevalence of HIV infection in this study was 5.35%. For excluding HIV infection (i.e. The overall HIV prevalence among those tested was 56.5% and the prevalence of acute HIV infection was 1.2%. Most HIV-1 infected individuals do not know their infection dates. A general fitness order was observed among 33 HIV-1 isolates; subtype B and D HIV-1 isolates were slightly more fit than the subtype A and dramatically more fit than the 12 subtype C isolates. Acute HIV infection lasts approximately 3 weeks and early HIV infection, which includes acute HIV infection, lasts approximately 7 weeks. Overall, the HIV prevalence using the HIVSS test was 8.2% (93/1129). early HIV infection and LPNT.

Les mêmes poids de mots-clés sont utilisés pour cette méthode que pour la précédente. Ici, nous filtrons les phrases ne détaillant pas les participants à la recherche, puisqu'ils ressortent les plus souvents. Par la suite, les phrases qui apparaissent dans les tableaux des meilleurs phrases en italiques sont les phrases qui ont été exclus pour cette méthode.

2.6.2 Les 20 mots-clés les plus importants du Cluster n°1

infection	0.076165	subtype	0.029293
hiv	0.062839	individuality	0.027436
cell	0.046514	usage	0.026343
neutralization	0.038795	highness	0.026079
viral	0.037607	acuteness	0.026052
response	0.036963	sequence	0.025165
virus	0.035305	blood	0.023895
antibody	0.033565	transmission	0.023629
primary	0.032573	level	0.023447
earliness	0.031702	woman	0.023441

2.6.3 Les 11 meilleurs phrases sélectionnés du Cluster n°1

Sentence	Weight
Sixteen men with acute HIV infection and 25 men with chronic HIV infection were	0.002082
studied.	0.002082
The overall prevalence of HIV infection in this study was 5.35%.	0.002080
A single viral variant is transmitted in the majority of HIV infections.	0.001722
PwD can accurately determine HIV infection recency.	0.001661
TRIM5alphahu levels did not change significantly after infection.	0.019589
During acute HIV infection, HIV actively replicates but seroconversion has not yet	0.001626
occurred.	0.001020
Furthermore, infection is not associated with disregulation of TRIM5alphahu.	0.001592
Blood viral load in subjects with acute HIV infection was highest about 17 days	
after infection (mean $+/-$ SE, 6.9 $+/-$ 0.5 log10 copies/ml), while semen viral load	0.001561
peaked about 30 days after infection $(4.5 + /- 0.4 \log 10 \text{ copies/ml})$.	
We dissected this bi-directional relationship to understand how HIV impacts NK-	0.001543
cell responses during primary HIV-1 infection.	0.001343
To control HIV infection in Nigeria, there is a need to continually screen high-risk	0.001503
groups for early HIV infection and subtypes using very sensitive methods.	0.001909
In this cohort of FSWs, HIV superinfection occurred at a high rate and was similar	0.001477
to that of primary HIV infection.	0.001477

2.6.4 Les 20 mots-clés les plus importants du Cluster n°2

hiv	0.101670	study	0.035668
arty	0.074939	initiation	0.033777
test	0.070804	child	0.032462
infant	0.064053	care	0.032302
ci	0.045334	mortality	0.031614
patience	0.041217	year	0.031547
diagnosis	0.041120	earliness	0.030144
treatment	0.040090	usage	0.029828
infection	0.037566	incidence	0.028615
woman	0.035714	pregnancy	0.028214

2.6.5 Les 12 meilleurs phrases sélectionnés du Cluster n°2

Sentence	Weight
Of these, 864 HIV exposed infants had DNA-PCR HIV test results available.	0.004337
Ninety-eight (71%) infants and children exposed to HIV were diagnosed for HIV infection of which 68(69.4%) initiated ART.	0.003985
For excluding HIV infection (i.e.	0.003920
Dried Blood Spots samples from HIV exposed infants were tested for HIV.	0.003379
To assess the performance of rapid HIV tests in comparison to a laboratory-based HIV ELISA test for determining HIV-exposure and excluding HIV infection during infancy.	0.003375
A pro-poor wealth-related inequality in early HIV testing was observed.	0.003271
Infant HIV status was determined at 3, 24 and 36 weeks by HIV DNA PCR.	0.003262
Of 1966 participants, 616 (31.3%) were HIV infected; 47.6% of these (291) had CD4 counts ≤ 250 .	0.003179
Late HIV diagnosis was defined as $CD4 \le 250 \text{ cells/mm}$.	0.003131
HIV is a major contributor to infant mortality.	0.003096
Early HIV testing and ART initiation is recommended to decrease mortality.	0.003011
Mobile HIV screening may facilitate early HIV diagnosis.	0.002972

2.6.6 Les 20 mots-clés les plus importants du Cluster n°3

hiv	0.148479	participant	0.040976
test	0.114424	rna	0.040970
infection	0.091412	rapidness	0.040947
ahi	0.084485	combo	0.038675
diagnosis	0.059905	usage	0.037860
woman	0.057685	among	0.037468
patience	0.054722	prevalence	0.037301
acuteness	0.054061	counsel	0.036125
detection	0.048960	rt	0.035918
intervention	0.044138	antibody	0.035331

2.6.7 Les 13 meilleurs phrases sélectionnés du Cluster n°3

Sentence	Weight
Of the participants 838 were HIV negative, 163 had established HIV infection, and	0.009852
8 had acute HIV infection.	0.009852
The overall HIV prevalence among those tested was 56.5% and the prevalence of	0.008099
acute HIV infection was 1.2%.	0.000033
Of the 467 HIV antibody-negative samples, four (0.9%) were HIV-1 RNA-positive.	0.007582
To identify, diagnose and counsel patients with acute HIV infection (AHI) during	0.006581
routine HIV testing in South Africa.	0.000001
Among 3,825 pregnant women screened, dual HIV rapid testing indicated that 30.2%	0.006337
were HIV positive, 69.7% were HIV negative, and 0.1% were indeterminate.	0.000331
HIV RNA screening has the potential to identify both acute and chronic HIV infec-	0.006311
tions that are otherwise missed by standard HIV testing algorithms.	0.000311
HIV transmission risk is higher during acute and early HIV infection than it is	
during chronic infection, but the contribution of early infection to the spread of	0.006156
HIV is controversial.	
There were 228 HIV-negative men at baseline; 10 were positive for HIV RNA, and	0.006064
8 seroconverted to HIV at day 28.	0.00004
HIV testing is the first step to stop transmission.	0.006048
HIV testing should be repeated in the third trimester and/or at delivery.	0.005915
Diagnosis of acute HIV infection (AHI) presents an opportunity to prevent HIV	0.005909
transmission during a highly infectious period.	0.003909
Acute HIV infection (prior to antibody seroconversion) represents a high-risk win-	0.005805
dow for HIV transmission.	0.005605
Detection of acute HIV infection is a unique problem that fourth-generation HIV	0.005804
assays were expected to alleviate.	0.003604

2.6.8 Les 20 mots-clés les plus importants du Cluster n°4

hiv	0.067381	${\it transmission}$	0.022963
infection	0.061661	acuteness	0.022360
patience	0.032254	incidence	0.022160
cell	0.030943	earliness	0.021921
response	0.028457	treatment	0.021830
viral	0.025894	test	0.020987
usage	0.025355	highness	0.020931
study	0.025000	woman	0.020387
association	0.024877	estimation	0.020348
individuality	0.024658	virus	0.020291

2.6.9 Les 12 meilleurs phrases sélectionnés du Cluster n°4

Sentence	Weight
8 (25%) of the patients were HIV seropositive.	0.001869
Most HIV-1 infected individuals do not know their infection dates.	0.001660
Low-levels of this population were associated with acute and chronic HIV infection.	0.001638
These cells were dramatically increased in chronic HIV infection.	0.001602
The epidemiological and clinical aspects of HIV-2 infection were the same as in	0.001470
HIV-1 infected patients.	0.0011.0
MBL levels are not altered by HIV infection or AIDS.	$\mid 0.001436 \mid$
Sustained viremia after acute HIV infection is associated with profound CD4	0.001386
The impact of acute HIV infection was assessed in 5 individuals recruited within 3	0.001353
weeks of infection.	0.001000
Participants were enrolled in the acute HIV infection phase, then followed-up during	0.001320
chronic infection up to ART initiation.	0.001520
8 (25%) of the patients tested positive for HIV antibodies.	0.001318
Taking into account multiplicity of HIV infection strengthened these associations.	0.001308
The burden of paediatric HIV infection remains high in resource-poor settings.	0.001266

2.6.10 Les 20 mots-clés les plus importants du Cluster n°5

infection	0.070662	association	0.033385
isolates	0.067264	clade	0.032748
neutralization	0.058357	response	0.031450
subtype	0.056844	vaccine	0.031008
viral	0.053869	primary	0.030897
woman	0.051360	usage	0.030849
virus	0.050391	month	0.030389
hiv	0.050107	fitness	0.030265
antibody	0.047622	model	0.029479
cell	0.044120	humanness	0.028997

2.6.11 Les 11 meilleurs phrases sélectionnés du Cluster n°5

Sentence	Weight
Eighty-nine women had multiple viral genotypes, while 67 women had a single geno-	0.001649
type at primary infection.	0.001049
A general fitness order was observed among 33 HIV-1 isolates; subtype B and D	
HIV-1 isolates were slightly more fit than the subtype A and dramatically more fit	$\mid 0.001548 \mid$
than the 12 subtype C isolates.	
Primary HIV-1 isolates (10 CRF02_AG, 5 subtype A and 5 subtype G) were obtained	0.001525
from a well-described Cameroonian cohort.	0.001525
All group M isolates were more fit (ex vivo) than the group O isolates.	0.001498
We thus attempted to characterize the replication properties of HIV-1 isolates di-	
rectly recovered from infected patients (primary isolates) by using a standardized	0.001409
infection assay.	
Unlike clade B isolates, however, all 16 clade C isolates examined resisted neutral-	0.001368
ization by 2G12.	0.001308
We found that both SHIV-89.6 and KB9 C4-V3 peptides induced antibodies that	
neutralized SHIV-89.6 but that only SHIV-KB9 C4-V3 peptide induced antibodies	0.001347
that neutralized SHIV-KB9.	
Our data show that potent but relatively strain-specific neutralizing antibodies de-	0.001334
velop within 3 to 12 months of HIV-1 infection.	0.001334
Establishment of persistent human immunodeficiency virus type 1 (HIV-1) reservoirs	
occurs early in infection, and biomarkers of infected CD4+ T cells during acute	0.001306
infection are poorly defined.	
It also neutralized 7 of 17 clade C isolates from southern Africa that were difficult	0.001293
to neutralize with other hMAbs and sCD4.	0.001293
In tissue competition experiments, subtype C isolates could compete with and, in	0.001235
some cases, even win over subtype A and D isolates.	0.001235

2.6.12 Les 20 mots-clés les plus importants du Cluster n°6

infection	0.119637	subtype	0.036016
hiv	0.116063	participant	0.035502
acuteness	0.056263	among	0.034617
woman	0.053427	association	0.034449
response	0.049188	test	0.034392
viral	0.047035	highness	0.034249
cell	0.043709	ci	0.034132
load	0.042164	seroconverters	0.033302
plasma	0.039516	immunity	0.033126
earliness	0.039250	arty	0.032023

Sentence	Weight
Five-hundred and fifty-three men (40.6%) were HIV antibody positive and 24 (1.8%) had acute HIV infection; 23 of 24 acutely infected men were from the STD clinic, where they represented 4.5% of all HIV antibody-negative men and 5.0% of all HIV infections.	0.006024
Acute HIV infection lasts approximately 3 weeks and early HIV infection, which includes acute HIV infection, lasts approximately 7 weeks.	0.005781
The effects of early HIV infection on the risk of HPV infection and HPV-related disease were evaluated.	0.005069
Seroconverters had significantly lower HPV infection prevalence than women with prevalent HIV infection before and at seroconversion (41.8% and 45.9%, respectively) but had similar HPV infection prevalence to women with prevalent HIV infection after seroconversion (49.4%).	0.004640
Early HIV infection was defined as the first visit during which a woman tested HIV antibody positive.	0.004385
Many testing and blood screening algorithms detect HIV antibodies about 3 weeks after HIV infection.	0.004021
No participant was positive for CHIKV infection.	0.003972
Viral load is the key modifiable risk factor for HIV transmission and peaks during acute and early HIV infection.	0.003948
Haemotologic parameters were assessed before infection and at regular intervals in the first twelve months of HIV infection.	0.003929
Empirical evidence characterizing the impact of acute and early HIV infection on the spread of the HIV epidemic are limited.	0.003878
Here, we assessed CD8+ T cell functional evolution from primary to chronic HIV infection.	0.003798

2.6.14 Les 20 mots-clés les plus importants du Cluster n°7

hiv	0.083017	ci	0.027136
test	0.041524	woman	0.026909
arty	0.040662	risk	0.025011
infection	0.039736	diagnosis	0.023797
child	0.034833	association	0.023339
patience	0.033264	earliness	0.023011
study	0.029086	mortality	0.022599
treatment	0.028490	among	0.022304
usage	0.028395	participant	0.021987
care	0.028276	prevalence	0.021909

2.6.15 Les 13 meilleurs phrases sélectionnés du Cluster n°7

Sentence	Weight
Overall, the HIV prevalence using the HIVSS test was 8.2% (93/1129).	0.002808
Reactivity with all HIV genotypes was 100%.	0.002300
HIV self-screening (HIVSS) is acceptable to adults, but there is limited data on	0.002180
HIVSS feasibility in community programmes.	0.002100
All households were offered 6-monthly home-based HIV testing.	$\mid 0.002164 \mid$
221 incident syphilis infections were reported: 46 (21%) in men with HIV (incidence	
1.10 per 100 person-years), 76 (34%) in men without HIV (1.09), 54 (24%) in	0.002034
women with HIV (0.77), and 45 (24%) in women without HIV (1.11).	
At enrolment, 1575 (53%) men with HIV and 560 (32%) men without HIV were	
circumcised; an additional 69 (4%) men with HIV and 132 (5%) men without HIV	0.001994
were circumcised during study follow-up.	
Unsupervised HIVSS was by far the most selected and utilised HIVSS method.	0.001988
This review considered studies that included the following outcome: 'late HIV test-	0.001932
ing', 'late HIV diagnosis' and 'late presentation for HIV care after testing'.	0.001932
Of those newly diagnosed with HIV, 16% ($12/75$) were initiated on ART.	0.001912
Overall, 52% of the women reported testing for HIV.	0.001902
HIV programs in Senegal should intensify early HIV diagnosis for effective test-and-	0.001881
treat.	0.001001
The stages were early HIV disease, late HIV disease and AIDS.	0.001870
It commonly affects women infected with HIV.	0.001841

2.6.16 Les 20 mots-clés les plus importants du Cluster n°8

hiv	0.113375	usage	0.033127
test	0.065661	risk	0.032758
infection	0.064397	assay	0.029457
ahi	0.063523	${\it transmission}$	0.029357
earliness	0.041064	study	0.028585
diagnosis	0.039455	incidence	0.028332
woman	0.034973	sample	0.027448
detection	0.034084	ci	0.027448
arty	0.034042	participant	0.027270
acuteness	0.033728	patience	0.026694

2.6.17 Les 12 meilleurs phrases sélectionnés du Cluster n°8

Sentence	Weight
Overall, 30 patients (1.0%) had acute HIV infection, 56 (1.8%) had early HIV infection, and 238 (8%) had established HIV infection.	0.004966
early HIV infection and LPNT.	0.004674
Twenty-one participants (1.45%) had AHI, 588 had established HIV infection, and 839 were HIV-negative.	0.004363
The Defer/Test strategy averted the most HIV infections.	0.004333
It further identified different risk factors for prevalent HIV infection (HIV seropositivity) compared with incident HIV (HIV seroconversion).	0.004211
Individuals with acute (preseroconversion) HIV infection (AHI) are important in the spread of HIV.	0.003973
29% of HIV infected individuals were at the early stages of infection.	0.003934
Detection of early HIV infections (EHIs), including acute HIV infection (AHI), is important for individual health, prevention of HIV transmission, and measurement of HIV incidence.	0.003736
Fourth-generation HIV assays detect both antigen and antibody, facilitating detection of acute/early HIV infection.	0.003732
HIV testing identified 978 seroconverter cases.	0.003578
Acute HIV infection (AHI) is the time of virus acquisition until the appearance of HIV antibodies.	0.003563
Characterization of NAAT-positive samples revealed that 0.04% (95% CI: 0.000-0.001) had AHI, 0.3% (95% CI: 0.1-0.4) had early HIV infection, and 0.5% (95% CI: 0.5-0.7) had chronic HIV infection.	0.003299

2.7 Résumé généré avec la méthode SVD sur les poids de mots

Broadly neutralizing antibodies (bNAbs) for HIV-1 prevention or cure strategies must inhibit transmitted/founder and reservoir viruses. Pre-exposure prophylaxis (PrEP) reduces HIV acquisition risk by >90\% and is a critical lever to reduce HIV incidence. Blood donations in South Africa are tested for HIV RNA using individual donation NAT (ID-NAT), allowing detection and rapid antiretroviral therapy (ART) of acute HIV infections. The cystine-cystine chemokine receptor 5 (CCR5) is the primary HIV co-receptor involved in the viral entry process into human cells. Human immunodeficiency virus (HIV) and hepatitis B virus (HBV) are endemic in South Africa while hepatitis C virus (HCV) infection is rare. Human immunodeficiency virus (HIV) partner notification services (HPN), peer mobilization with HIV self-testing, and acute and early HIV infection (AEHI) screening among gay, bisexual, and other men who have sex with men (GBMSM) and transgender women (TGW) were assessed for acceptability, feasibility, and linkage to antiretroviral therapy (ART) and preexposure prophylaxis (PrEP) services. To study the structure of human immunodeficiency virus\xa0(HIV)-1 drug resistance (DR) in patients with newly diagnosed infection. Define the clinical presentation of acute human immunodeficiency virus infection (AHI) among men and women from 2 continents to create a clinical scoring algorithm. Comparison of incident sign and symptom between those with and without AHI.At-risk human immunodeficiency virus (HIV) negative men and women in Thailand, Kenya, Tanzania, and Uganda underwent twice-weekly testing for HIV.

2.7.1 Excluant les phrases détaillant les participants à la recherche

Broadly neutralizing antibodies (bNAbs) for HIV-1 prevention or cure strategies must inhibit transmitted/founder and reservoir viruses. Pre-exposure prophylaxis (PrEP) reduces HIV acquisition risk by >90% and is a critical lever to reduce HIV incidence. Blood donations in South Africa are tested for HIV RNA using individual donation NAT (ID-NAT), allowing detection and rapid antiretroviral therapy (ART) of acute HIV infections. The cystine-cystine chemokine receptor 5 (CCR5) is the primary HIV co-receptor involved in the viral entry process into human cells. Human immunodeficiency virus (HIV) and hepatitis B virus (HBV) are endemic in South Africa while hepatitis C virus (HCV) infection is rare. Between April and August 2019, peer mobilizers mobilized clients by offering HIV oral self-tests and immediate clinic referral for clients with AEHI symptoms. To study the structure of human immunodeficiency virus\xa0(HIV)-1 drug resistance (DR) in patients with newly diagnosed infection. Define the clinical presentation of acute human immunodeficiency virus infection (AHI) among men and women from 2 continents to create a clinical scoring algorithm. Comparison of incident sign and symptom between those with and without AHI.At-risk human immunodeficiency virus (HIV) negative men and women in Thailand, Kenya, Tanzania, and Uganda underwent twice-weekly testing for HIV.

Les mêmes poids de mots-clés sont utilisés pour cette méthode que pour la précédente. Ici, nous filtrons les phrases ne détaillant pas les participants à la recherche, puisqu'ils ressortent les plus souvents.

2.7.2 Les 20 mots-clés les plus importants du Cluster n°1

infection	0.854598	individuality	0.308689
hiv	0.671667	acuteness	0.296456
cell	0.542281	highness	0.296015
response	0.443371	subtype	0.286545
viral	0.434537	level	0.282176
neutralization	0.420392	control	0.277925
virus	0.365781	usage	0.267526
antibody	0.364494	woman	0.264764
earliness	0.360894	load	0.258679
primary	0.326259	sequence	0.255156

2.7.3~ Les 10 meilleurs phrases sélectionnés du Cluster n°1

Sentence	Weight
Broadly neutralizing antibodies (bNAbs) for HIV-1 prevention or cure strategies	
must inhibit transmitted/founder and reservoir viruses.	_
The role of AnAbs in preventing superinfection and in restricting virus replication	
is reexamined in the context of recent data.	_
In both HIV-infected and 15 uninfected controls, the frequency of activated cells was	
uniformly distributed among early differentiated (ED; CD45RO(+)CD27(+)), late	
differentiated (CD45RO(+)CD27(-)), and fully differentiated effector (CD45RO(-	_
)CD27(-)) memory CD4(+) T cells.	
In HIV-1-infected individuals, activated CD4(+) T cells significantly correlated with	
viremia at 3 mo postinfection ($r = 0.79$, $p = 0.0007$) and also harbored more gag	-
provirus DNA copies than nonactivated cells ($p = 0.04$).	
Moreover, Gag-specific ED CD4(+) T cells inversely associated with plasma viral	
load ($r = -0.87, p < 0.0001$).	_
Overall, we show that low copy numbers of gag provirus and plasma RNA copies	
associated with low CD4 activation as well as accumulation of ED HIV-specific	-
CD4(+) memory.	
Significant positive correlations between 3 and 12 mo activation and memory events	
highlighted that a steady state of CD4(+) T cell activation and memory maturation	
was established during primary infection and that these cells were unlikely to be	_
involved in influencing the course of viremia in the first 12 mo of HIV-1 infection.	
It has long been known that autologous neutralizing antibodies (AnAbs) exert pres-	
sure on the envelope of HIV, resulting in neutralization escape.	_
However, recently, progress has been made in uncovering the precise targets of these	
potent early antibodies.	_
AnAbs primarily target variable regions of the HIV-1 envelope, explaining the strain-	
specificity of these antibodies.	_

2.7.4 Les 20 mots-clés les plus importants du Cluster n°2

hiv	1.034439	initiation	0.361819
arty	0.790470	study	0.346250
infant	0.754435	child	0.335455
test	0.713967	pregnancy	0.328864
ci	0.472052	mortality	0.328782
diagnosis	0.437624	care	0.328362
patience	0.411549	year	0.322953
infection	0.375078	earliness	0.302214
woman	0.369599	week	0.038387
treatment	0.362735	risk	0.269442

2.7.5 Les 10 meilleurs phrases sélectionnés du Cluster n°2

Sentence	Weight
Pre-exposure prophylaxis (PrEP) reduces HIV acquisition risk by >90% and is a	_
critical lever to reduce HIV incidence.	-
We analyzed data from 173,245 patients (61% female, 8% children aged < 16 years)	
who started ART between 2004 and 2010.	-
The overall KS incidence rate was 164/100,000 pys [95% confidence interval (CI):	
151 to 178].	-
The incidence rate was highest 30-90 days after ART initiation (413/100,000 pys;	
95% CI: 342 to 497) and declined thereafter [86/100,000 pys (95% CI: 71 to 105),	-
> 2 years after ART initiation].	
Male sex [adjusted hazard ratio (HR): 1.34; 95% CI: 1.12 to 1.61], low current CD4	
counts (≥ 500 versus <50 cells/ μ L, adjusted HR: 0.36; 95% CI: 0.23 to 0.55), and	
age (5-9 years versus 30-39 years, adjusted HR: 0.20; 95% CI: 0.05 to 0.79) were	-
relevant risk factors for developing KS.	
Despite ART, KS risk in HIV-infected persons in Southern Africa remains high.	-
Early HIV testing and maintaining high CD4 counts is needed to further reduce	
KS-related morbidity and mortality.	_
Antiretroviral therapy is often initiated too late to impact early HIV-related infant	
mortality.	-
Earlier treatment requires an earlier diagnosis, and the currently recommended 6-	
week HIV polymerase chain reaction (PCR) test needs reconsideration.	_
This study aims to identify (1) optimal testing intervals to maximize the number of	
perinatal HIV infections diagnosed and (2) programmatic issues that impact diag-	-
nosis.	

2.7.6 Les 20 mots-clés les plus importants du Cluster n°3

hiv	0.900271	intervention	0.272879
test	0.732481	rna	0.272373
infection	0.523630	combo	0.255293
ahi	0.499901	participant	0.239104
patience	0.365747	rt	0.238388
diagnosis	0.358482	antibody	0.231974
woman	0.337544	usage	0.219585
acuteness	0.329243	prevalence	0.216873
detection	0.296824	counsel	0.216832
rapidness	0.274139	antigen	0.216339

2.7.7 Les 10 meilleurs phrases sélectionnés du Cluster n°3

Sentence	Weight
Blood donations in South Africa are tested for HIV RNA using individual donation	
NAT (ID-NAT), allowing detection and rapid antiretroviral therapy (ART) of acute	-
HIV infections.	
The yield of screening for acute HIV infection among general medical patients in	
resource-scarce settings remains unclear.	_
It is possible to perform routine diagnosis and counselling for acute HIV infection	
in a limited-resource setting.	_
Results and counselling were delivered to 62.3% of participants and all six patients	
with AHI.	_
Six (0.67%) were diagnosed with AHI.	-
902 participants were enrolled over the course of 1 year, reporting high levels of	
sexual risk behaviour, including 66.7% who did not use a condom at last sex.	_
Patients with AHI were additionally visited at home.	-
Text message reminders and phone calls were employed to encourage patients to	
return for results.	_
Results were made available at 1 week.	-
Patients with sexually transmitted infection and clients undergoing voluntary coun-	
selling and testing who were negative on rapid HIV antibody tests at a public youth	
clinic were recruited to the study and tested using HIV-1 PCR and third-generation	_
ELISA.	

2.7.8 Les 20 mots-clés les plus importants du Cluster n°4

hiv	0.722625	${\it transmission}$	0.255027
infection	0.695229	woman	0.237573
cell	0.342571	estimation	0.229674
patience	0.315767	test	0.229241
response	0.307706	highness	0.224187
viral	0.287279	earliness	0.224086
association	0.279777	incidence	0.220916
individuality	0.262792	acuteness	0.214922
usage	0.262456	immunity	0.206966
study	0.257471	resultant	0.206773

2.7.9 Les 10 meilleurs phrases sélectionnés du Cluster n°4

Sentence	Weight
The cystine-cystine chemokine receptor 5 (CCR5) is the primary HIV co-receptor	
involved in the viral entry process into human cells.	_
Strong HIV-specific cellular and humoral immune responses were elicited in mice	
immunized with each individual vaccine candidate.	_
RNase H mutations Q509L and Q547K were found in non-CRF02_AG strains.	-
A high HIV-1 diversity was already present in Cameroon in the early 90s, when the	
subjects were likely infected.	_
Primary HIV-1 drug resistance was low.	-
Occurrence of RNase H mutations with proven phenotypic effect on susceptibility to	
antiretrovirals encourages further assessment of their impact in treatment outcome	_
in the context of complex HIV genetic diversity and in a subtype-specific fashion.	
We previously described the polymorphism in the interferon regulatory factor-1	
(IRF-1) gene as a novel correlate of resistance to HIV-1 infection in a Kenyan female	_
sex worker cohort.	
However, the underlying mechanisms likely mediating this association remained to	
be elucidated.	_
The initiation of HIV-1 long terminal repeat (LTR) transcription in peripheral blood	
mononuclear cells (PBMCs) from subjects with different IRF-1 haplotypes, repre-	
senting protective, intermediate and the least protective IRF-1 allele combinations,	_
were investigated here.	
A single-cycle pseudovirus construct expressing vesicular stomatitis virus envelop	
G-protein (VSV-G) and having an HIV-1 pNL4.3 backbone with luciferase insert	_
was used to infect PBMCs with different IRF-1 haplotypes.	

2.7.10 Les 20 mots-clés les plus importants du Cluster n°5

isolates	0.490968	fitness	0.225961
neutralization	0.411281	hiv	0.196195
subtype	0.400905	response	0.188640
infection	0.379390	primary	0.183977
antibody	0.328767	vaccine	0.174657
viral	0.322633	month	0.169522
woman	0.280695	association	0.164046
virus	0.278921	highness	0.161946
cell	0.272426	humanness	0.160026
clade	0.232733	study	0.148814

2.7.11 Les 10 meilleurs phrases sélectionnés du Cluster n°5

Sentence	Weight
Human immunodeficiency virus (HIV) and hepatitis B virus (HBV) are endemic in	
South Africa while hepatitis C virus (HCV) infection is rare.	_
This high frequency of cross-neutralization differed significantly from the ability of	
South African clade C serum samples to neutralize clade B isolates but did not differ	
significantly from results of other combinations of clade B and C reagents tested in	_
checkerboard assays.	
Here, we showed in rhesus macaques that the very same vaccines that had entered	
clinical trials in Oxford and Nairobi, plasmid pTHr.HIVA DNA and recombinant	
modified vaccinia virus Ankara MVA.HIVA in a prime-boost protocol (Hanke &	_
McMichael, Nature Medicine 6, 951-955, 2000), induced cellular immune responses	
specific for multiple HIV-derived epitopes.	
The minimum requirement for candidate human immunodeficiency virus (HIV) vac-	
cines to enter clinical evaluation in humans should be their demonstrable immuno-	
genicity in non-human primates: induction of antibodies neutralizing primary HIV	_
isolates or elicitation of broad T cell-mediated immune responses.	
The clustering of shared neutralization determinants on clade C primary HIV-1	
isolates from South Africa suggests that neutralizing antibodies induced by vaccines	_
will have less epitope diversity to overcome at a regional level.	
Our results suggest that clades B and C are each comprised of multiple neutralization	
serotypes, some of which are more clade specific than others.	_
Other individual serum samples showed a significant clade preference in their neu-	
tralizing activity.	_
Notably, two clade C serum samples obtained after less than 2 years of infection	
neutralized a broad spectrum of clade B and C isolates.	_
Once detectable, extensive cross-neutralization of heterologous clade C isolates from	
South Africa was observed, suggesting an unusual degree of shared neutralization	_
determinants at a regional level.	
These results have both boosted our expectations for the performance of these vac-	
cines in humans and increased our confidence about the choice of these assays as	-
the primary readouts in the on-going human trials.	

2.7.12 Les 20 mots-clés les plus importants du Cluster n°6

infection	0.748627	association	0.214856
hiv	0.721501	ci	0.198503
acuteness	0.378082	hpv	0.195961
woman	0.322984	highness	0.195526
viral	0.281694	test	0.195112
load	0.264120	among	0.191445
response	0.254284	subtype	0.190197
plasma	0.248952	prevalence	0.178349
earliness	0.233904	seroconversion	0.176336
cell	0.225763	study	0.174162

2.7.13 Les 10 meilleurs phrases sélectionnés du Cluster n°6

Sentence	Weight
Human immunodeficiency virus (HIV) partner notification services (HPN), peer mo-	
bilization with HIV self-testing, and acute and early HIV infection (AEHI) screening	
among gay, bisexual, and other men who have sex with men (GBMSM) and trans-	_
gender women (TGW) were assessed for acceptability, feasibility, and linkage to	
antiretroviral therapy (ART) and preexposure prophylaxis (PrEP) services.	
Prospective cohort of 188 African women with primary HIV-1 infection.	-
Hormonal contraception was not associated with either the HIV-1 plasma setpoint	
or cervical loads during early infection.	_
Subtype C infection, nonviral sexually transmitted infections, having a partner	
spending nights away from home, recent unprotected sex, and shorter time since	-
infection were associated with higher cervical HIV-1 loads.	
Subtype D infection, pregnancy, breastfeeding, and older age at the time of infection	
were associated with higher plasma viral setpoint.	_
Cervical loads were significantly higher (0.7-1.1 log10 copies/swab) during acute	_
infection than subsequently.	
We estimated the mean HIV-1 plasma setpoint to be 4.20 log10 HIV-1 RNA	
copies/ml $[95\%$ confidence interval (CI) $4.04-4.35$] at 121 days $(95\%$ CI $91-137)$	_
from infection; an analogous mean cervical viral setpoint was 1.64 log10 HIV-1	
RNA copies/swab (95% CI 1.46-1.82) at 174 days (95% CI 145-194) from infection.	
We used the Loess procedure to estimate the magnitude and timing of viral setpoints	
in plasma and cervical secretions and generalized estimating equations (GEE) to	-
identify predictors of plasma and cervical viral setpoints.	
HIV-uninfected and infected women were followed quarterly; we tested serial plasma	_
specimens by HIV PCR to estimate infection dates.	
High levels of HIV-1 viremia exist in peripheral blood during acute and early in-	
fection; however, data on HIV-1 viral loads in female genital secretions during this	-
period are sparse.	

2.7.14 Les 20 mots-clés les plus importants du Cluster n°7

hiv	1.067051	study	0.351905
arty	0.567922	woman	0.347271
test	0.539154	risk	0.338121
infection	0.493191	mortality	0.324774
child	0.490969	age	0.304563
patience	0.399721	diagnosis	0.303193
care	0.368786	year	0.295337
ci	0.363725	tb	0.292380
treatment	0.362870	association	0.291356
usage	0.352776	incidence	0.289140

Sentence	Weight
To study the structure of human immunodeficiency virus (HIV)-1 drug resistance	_
(DR) in patients with newly diagnosed infection.	_
Adapted education and support for children and their families would also be impor-	
tant.	_
Increased mortality and attrition were also associated with advanced clinical stage,	
underweight and diagnosis of tuberculosis at programme entry.	_
The highest mortality and attrition rates (98.85 and 244.00 per 1000 person-years),	
and relative ratios (adjusted hazard ratio $[aHR] = 1.92, 95\%$ CI 1.56-2.37; incidence	
ratio [aIR] = 2.10 , 95% CI $1.86-2.37$, respectively, compared with the 5- to 14-year	_
group) were observed amongst the youngest children.	
At programme entry, 45.3% were underweight and 12.6% were in clinical stage 4.	-
Six thousand two hundred and sixty-one patients contributed 9500 person-years;	_
27.1% were aged < 2 years, $30.1%$ were 2-4, and $42.8%$ were 5-14 years old.	
Associations between outcomes and age and other individual-level factors were stud-	
ied using multiple Cox proportional hazards (mortality) and Poisson (attrition) re-	-
gression models.	
Two-year mortality and programme attrition rates per 1000 person-years stratified	_
by age group (<2, 2-4 and 5-15 years) were calculated.	_
Longitudinal analysis of data from patients enrolled in HIV care.	_
To examine age differences in mortality and programme attrition amongst paediatric	_
patients treated in four African HIV programmes.	_

2.7.16 Les 20 mots-clés les plus importants du Cluster n°8

hiv	1.158117	arty	0.299375
ahi	0.743884	sample	0.295186
test	0.738407	risk	0.292824
infection	0.650917	participant	0.291785
earliness	0.424870	assay	0.284965
diagnosis	0.416723	ci	0.279880
detection	0.399738	rapidness	0.274455
acuteness	0.355326	incidence	0.273427
usage	0.313401	transmission	0.271960
woman	0.304020	study	0.268379

2.7.17 Les 10 meilleurs phrases sélectionnés du Cluster n°8

Sentence	Weight
Define the clinical presentation of acute human immunodeficiency virus infection	
(AHI) among men and women from 2 continents to create a clinical scoring algo-	
rithm.Comparison of incident sign and symptom between those with and without	-
AHI.At-risk human immunodeficiency virus (HIV) negative men and women in Thai-	
land, Kenya, Tanzania, and Uganda underwent twice-weekly testing for HIV.	
Available data in acquired immune deficiency syndrome (AIDS)-defining cancers	
further suggest that FDG-PET/CT imaging may be useful for prognostication of	
cervical cancer and for identifying appropriate sites for biopsy, staging, and mon-	-
itoring lymphoproliferative activity owing to HIV-associated Kaposi sarcoma and	
multicentric Castleman disease.	
Of these five AHI cases, four were diagnosed among the 241 patients with fever	
(prevalence 1.7%, 95% CI 0.5-4.2%), vs. one among 265 non-febrile patients (preva-	-
lence 0.4% , 95% CI 0.0 - 2.0% , $P = 0.1$).	
Malaria was confirmed by PCR in four (1.7%) of the 241 febrile patients.	-
AHI was as common as confirmed malaria in young febrile adults seeking care.	-
An AHI detection strategy targeting young febrile adults seeking care at pharma-	
cies and health facilities is feasible and should be considered as an HIV-prevention	-
strategy in high-transmission settings.	
Few studies have investigated the long-term dynamics in health-related quality of	_
life (HRQoL) among HIV-positive persons from acute infection.	_
From 2004, 160 women were enrolled into the CAPRISA 002 Acute Infection study	
at two sites in the province of KwaZulu-Natal and underwent 3-6 monthly HRQoL	-
assessments using the functional assessment of HIV infection (FAHI) instrument.	
Overall and 5 sub-scale FAHI scores [physical well-being (PWB), emotional well-	
being (EWB), functional and global well-being (FGWB), social well-being (SWB)	
and cognitive functioning (CF)] were calculated up to antiretroviral therapy (ART)	-
initiation and scores at enrollment were compared to the acute, early and established	
infection phases.	
Mixed-effects regression models adjusting for behavioral and clinical factors were	
applied to assess HRQoL trends and the proportion of women meeting minimally	-
important differences was calculated.	

3 Génération de nouveaux clusters par abstracts

3.1 Déroulement de l'algorithme

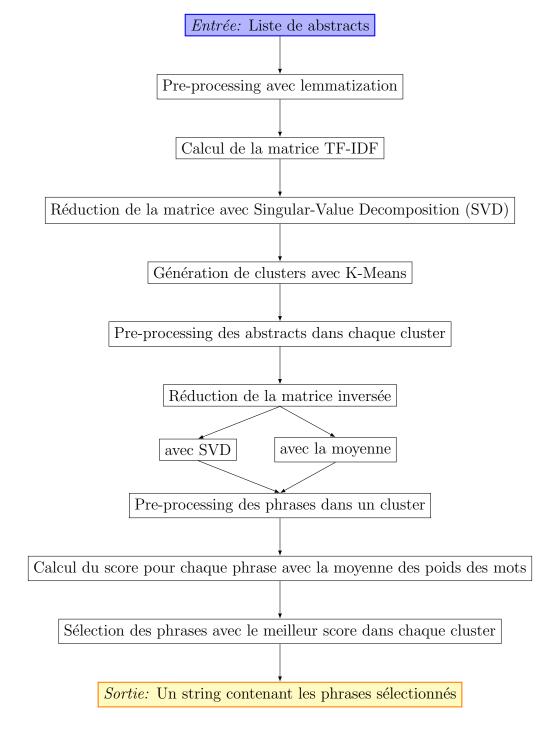


Figure 6: Processus de génération de résumé

3.2 Pre-processing

Avant: Pre-exposure prophylaxis (PrEP) reduces HIV acquisition risk by >90% and is a critical lever to reduce HIV incidence. Identifying individuals most likely to benefit from PrEP and retaining them on PrEP throughout HIV risk is critical to realize PrEP's prevention potential. Individuals with sexually transmitted infections (STIs) are an obvious priority PrEP population, but there are no data from sub-Saharan Africa (SSA) confirming the effectiveness of integrating PrEP into STI clinics. Assisted partner notification may further enhance STI clinic-based PrEP

programming by recruiting PrEP users from the pool of named sexual partners of individuals presenting with an incident STI. However, the acceptability, feasibility, and effectiveness of these integrated and enhanced strategies are unknown.

This study aims to describe the implementation outcomes of acceptability, feasibility, and effectiveness (regarding PrEP uptake and persistence) of integrating an enhanced PrEP implementation strategy into an STI clinic in Malawi.

The enhanced PrEP STI study is a prospective cohort study enrolling patients who are eligible for PrEP (aged \geq 15 years) who are seeking STI services at a Lilongwe-based STI clinic. Data collection relies on a combination of in-depth interviews, patient and clinic staff surveys, and clinic record review. All enrolled PrEP users will be screened for acute HIV infection and receive quarterly testing for Neisseria gonorrhea, Chlamydia trachomatis, and syphilis. Participants will be asked to name recent sexual partners for assisted notification; returning partners will be screened for PrEP eligibility and, if interested, enrolled into the cohort of PrEP initiators. We will also enroll patients who are eligible for PrEP but choose not to initiate it, from the STI clinic. Patient participants will be followed for 6 months; we will assess self-reported PrEP use, PrEP refills, sexual behaviors, perceived HIV risk, and incident STIs. Clinic staff participants will be interviewed at baseline and at approximately 6 months and will complete surveys examining the perceived acceptability and feasibility of the integrated and enhanced PrEP strategy.

Enrollment began in March 2022 and is projected to continue until February 2023, with patient participant follow-up through August 2023. The results of this study are expected to be reported in 2024.

This study will generate important evidence regarding the potential integration of PrEP services into STI clinics in SSA and preliminary data regarding the effectiveness of an enhanced intervention that includes assisted partner notification as a strategy to identify potential PrEP users. Furthermore, this trial will provide some of the first insights into STI incidence among PrEP users recruited from an STI clinic in SSA-critical data to inform the use of etiologic STI testing where syndromic management is the current standard. These findings will help to design future PrEP implementation strategies in SSA.

ClinicalTrials.gov NCT05307991; https://clinicaltrials.gov/ct2/show/NCT05307991. DERR1-10.2196/37395.

Après: prophylaxis prep reduces hiv acquisition risk crisis leverage reduction hiv incidence identification individuality likeliness benefit prep retention prep throughout hiv risk crisis realization prep prevention potentiality individuality sexually transmission infection stis obviousness priority prep population data africa ssa confirmation effectiveness integration prep sti clinic assistant partner notification may enhancement sti prep program recruiting prep user pool name sex partner individuality presentment incidence sti however acceptability feasibility effectiveness integration enhancement strategy unknown study aim description implement outcome acceptability feasibility effectiveness regard prep uptake persistence integration enhancement prep implement strategy sti clinic malawi enhancement prep sti study prospective cohort study enrolment patience eligibility prep age year seek sti service sti clinic data collection relies combination interview patience clinic staff survey clinic record review enrolment prep user screen acuteness hiv infection reception quarterly test neisseria gonorrhea chlamydia trachomatis syphilis participant ask name recentness sex partner assistant notification return partner screen prep eligibility interestedness enrolment cohort prep initiator also enrollment patience eligibility prep choose initiation sti clinic patience participant follow month ass prep usage prep refill sex behavior perception hiv risk incidence stis clinic staff participant interviewed baseline approximately month completion survey examination perception acceptability feasibility integration enhancement prep strategy enrollment begin march projection continuation february patience participant august result study expectation reportage study generation important evidence regard potentiality integration prep service sti clinic ssa preliminary data regard effectiveness enhancement intervention include assistant partner notification strategy identification potentiality prep user furthermore try provision first insight sti incidence among prep user recruitment sti clinic data informant usage etiology sti test syndromic manage currency standard finding help design future prep implement strategy ssa http

3.3 Génération de la matrice TF-IDF

(0, 2175)	0.036925213186693034
(0 , 1895)	0.02538785016730649
(0 , 1226)	0.022892292113539835
(630 , 2122)	0.12454771107996537
(630 , 3739)	0.14871579966867624
(630 , 3844)	0.05361881974577664

Les nombres en gras représentent l'ID des documents tels que définis dans le df-hover.

3.4 Réduction de la matrice TF-IDF avec SVD

0	0.17463025	-0.05961566
1	0.09339271	0.16727474
2	0.16475986	0.0486627
•••		
628	0.2791554	-0.01904742
629	0.16739643	0.00459276
630	0.32905012	-0.09261019

Les nombres en gras représentent l'ID des documents tels que définis dans le df-hover.

3.5 Clustering avec K-Means

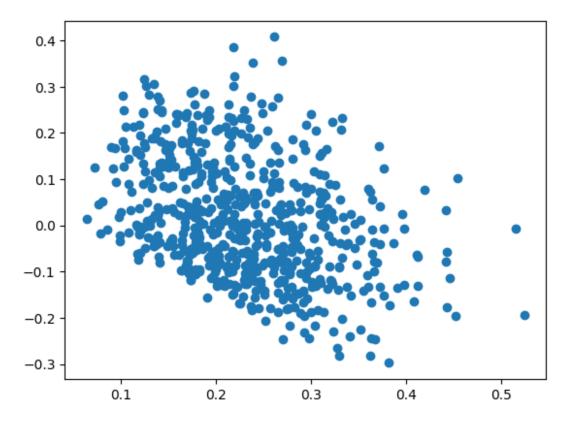


Figure 7: Représentation des documents

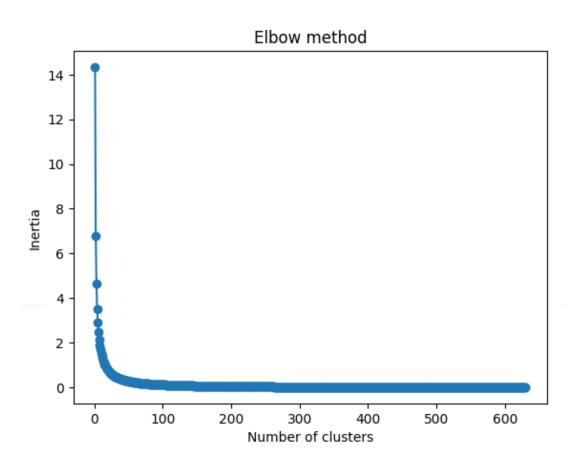


Figure 8: Elbow method pour trouver le K optimale

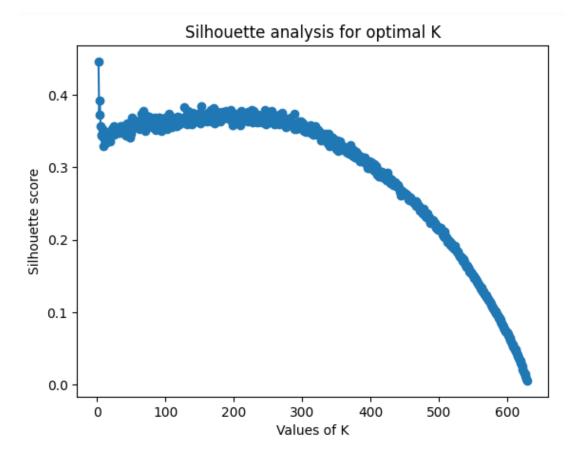


Figure 9: Analyse silhouette pour trouver le K optimale

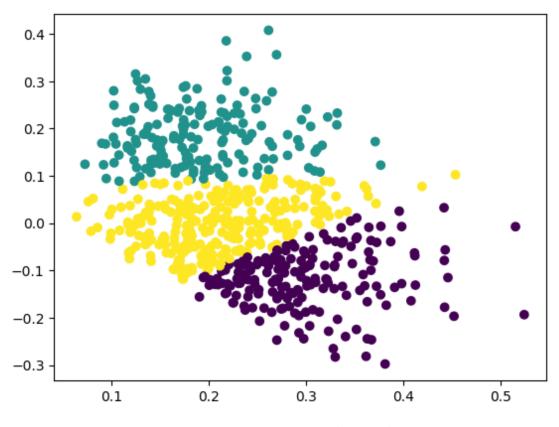


Figure 10: Documents clusterisés

- Cluster n°1 (86 documents)
 - Prevalence of drug resistant HIV-1 forms in patients without any history of antiretroviral

- therapy in the Republic of Guinea.
- Quantitative interpretation of Sedia LAg Assay test results after HIV diagnosis.
- Expression of type I interferon-associated genes at antiretroviral therapy interruption predicts HIV virological rebound.
- Virologic Response to Very Early HIV Treatment in Neonates.
- A Novel Sample Selection Approach to Aid the Identification of Factors That Correlate With the Control of HIV-1 Infection.

- ...

- Cluster n°2 (132 documents)

- Subtle Longitudinal Alterations in Env Sequence Potentiate Differences in Sensitivity to Broadly Neutralizing Antibodies following Acute HIV-1 Subtype C Infection.
- CCR5- Δ 32 gene variant frequency in the Nigerian and Zimbabwean populations living in North Cyprus.
- Infection with HIV-1 subtype D among acutely infected Ugandans is associated with higher median concentration of cytokines compared to subtype A.
- CD4 T cells are rapidly depleted from tuberculosis granulomas following acute SIV coinfection.
- A neutralizing antibody target in early HIV-1 infection was recapitulated in rhesus macaques immunized with the transmitted/founder envelope sequence.

- ...

- Cluster n°3 (69 documents)

- Integrating Enhanced HIV Pre-exposure Prophylaxis Into a Sexually Transmitted Infection Clinic in Lilongwe: Protocol for a Prospective Cohort Study.
- Evaluation of multi-assay algorithms for cross-sectional HIV incidence estimation in settings with universal antiretroviral treatment.
- Prevalence of drug resistant HIV-1 forms in patients without any history of antiretroviral therapy in the Republic of Guinea.
- Predicting HIV Status among Men Who Have Sex with Men in Bulawayo & Harare, Zimbabwe Using Bio-Behavioural Data, Recurrent Neural Networks, and Machine Learning Techniques.
- Trends and predictors of modern contraceptive use among married women: Analysis of 2000-2016 Ethiopian Demographic and Health Surveys.

_ ...

- Cluster n°4 (121 documents)

- Integrating Enhanced HIV Pre-exposure Prophylaxis Into a Sexually Transmitted Infection Clinic in Lilongwe: Protocol for a Prospective Cohort Study.
- Evaluation of multi-assay algorithms for cross-sectional HIV incidence estimation in settings with universal antiretroviral treatment.
- Prevalence of drug resistant HIV-1 forms in patients without any history of antiretroviral therapy in the Republic of Guinea.
- Predicting HIV Status among Men Who Have Sex with Men in Bulawayo & Harare, Zimbabwe Using Bio-Behavioural Data, Recurrent Neural Networks, and Machine Learning Techniques.

- Trends and predictors of modern contraceptive use among married women: Analysis of 2000-2016 Ethiopian Demographic and Health Surveys.

– ...

- Cluster n°5 (86 documents)

- Integrating Enhanced HIV Pre-exposure Prophylaxis Into a Sexually Transmitted Infection Clinic in Lilongwe: Protocol for a Prospective Cohort Study.
- Evaluation of multi-assay algorithms for cross-sectional HIV incidence estimation in settings with universal antiretroviral treatment.
- Prevalence of drug resistant HIV-1 forms in patients without any history of antiretroviral therapy in the Republic of Guinea.
- Predicting HIV Status among Men Who Have Sex with Men in Bulawayo & Harare, Zimbabwe Using Bio-Behavioural Data, Recurrent Neural Networks, and Machine Learning Techniques.
- Trends and predictors of modern contraceptive use among married women: Analysis of 2000-2016 Ethiopian Demographic and Health Surveys.

- ...

- Cluster n°6 (74 documents)

- Integrating Enhanced HIV Pre-exposure Prophylaxis Into a Sexually Transmitted Infection Clinic in Lilongwe: Protocol for a Prospective Cohort Study.
- Evaluation of multi-assay algorithms for cross-sectional HIV incidence estimation in settings with universal antiretroviral treatment.
- Prevalence of drug resistant HIV-1 forms in patients without any history of antiretroviral therapy in the Republic of Guinea.
- Predicting HIV Status among Men Who Have Sex with Men in Bulawayo & Harare, Zimbabwe Using Bio-Behavioural Data, Recurrent Neural Networks, and Machine Learning Techniques.
- Trends and predictors of modern contraceptive use among married women: Analysis of 2000-2016 Ethiopian Demographic and Health Surveys.

- ..

- Cluster n°7 (63 documents)

- Integrating Enhanced HIV Pre-exposure Prophylaxis Into a Sexually Transmitted Infection Clinic in Lilongwe: Protocol for a Prospective Cohort Study.
- Evaluation of multi-assay algorithms for cross-sectional HIV incidence estimation in settings with universal antiretroviral treatment.
- Prevalence of drug resistant HIV-1 forms in patients without any history of antiretroviral therapy in the Republic of Guinea.
- Predicting HIV Status among Men Who Have Sex with Men in Bulawayo & Harare, Zimbabwe Using Bio-Behavioural Data, Recurrent Neural Networks, and Machine Learning Techniques.
- Trends and predictors of modern contraceptive use among married women: Analysis of 2000-2016 Ethiopian Demographic and Health Surveys.

- ..**.**

3.6 Résumé généré avec la moyenne des poids de mots

Of the participants 838 were HIV negative, 163 had established HIV infection, and 8 had acute HIV infection. Reactivity with all HIV genotypes was 100%. Of these, 864 HIV exposed infants had DNA-PCR HIV test results available. 8 (25%) of the patients were HIV seropositive. These cells were dramatically increased in chronic HIV infection. TRIM5alphahu levels did not change significantly after infection. Overall, 30 patients (1.0%) had acute HIV infection, 56 (1.8%) had early HIV infection, and 238 (8%) had established HIV infection.

3.6.1 Excluant les phrases détaillant les participants à la recherche

The Defer/Test strategy averted the most HIV infections. Reactivity with all HIV genotypes was 100%. Overall, the HIV prevalence using the HIVSS test was 8.2% (93/1129). 91% tested positive for HIV. These cells were dramatically increased in chronic HIV infection. TRIM5alphahu levels did not change significantly after infection. Of the 467 HIV antibody-negative samples, four (0.9%) were HIV-1 RNA-positive.

Les mêmes poids de mots-clés sont utilisés pour cette méthode que pour la précédente. Ici, nous filtrons les phrases ne détaillant pas les participants à la recherche, puisqu'ils ressortent les plus souvents. Par la suite, les phrases qui apparaissent dans les tableaux des meilleurs phrases en italiques sont les phrases qui ont été exclus pour cette méthode.

3.6.2 Les 20 mots-clés les plus importants du Cluster n°1

hiv	0.103874	usage	0.033166
infection	0.094421	estimation	0.033165
test	0.055722	sample	0.030911
woman	0.043747	study	0.030054
acuteness	0.039664	antibody	0.029987
transmission	0.039516	highness	0.029183
detection	0.038750	individuality	0.028646
viral	0.036067	donor	0.027983
assay	0.035927	earliness	0.027939
blood	0.033654	association	0.027700

3.6.3 Les 12 meilleurs phrases sélectionnés du Cluster n°1

Sentence	Weight
Of the participants 838 were HIV negative, 163 had established HIV infection, and	0.005836
8 had acute HIV infection.	0.003630
The Defer/Test strategy averted the most HIV infections.	0.004956
Between 1 and 2% of subjects had undetected acute HIV infection.	0.004304
The overall prevalence of HIV infection in this study was 5.35%.	0.004215
Sixteen men with acute HIV infection and 25 men with chronic HIV infection were	0.004207
studied.	0.004207
Fourth-generation HIV assays detect both antigen and antibody, facilitating detec-	0.004027
tion of acute/early HIV infection.	0.004021
We found 563 people with undiagnosed HIV infection.	0.003963
Most HIV-1 infected individuals do not know their infection dates.	0.003806
This implies that most acute HIV infections will be missed with this assay.	0.003764
Low-levels of this population were associated with acute and chronic HIV infection.	0.003763
The median blood HIV was 209,000 copies/ml, more than 10 times higher than in	0.003701
subjects with established HIV infection.	0.003701
Most point-of-care HIV assays have poor sensitivity to diagnose acute HIV infection	0.003699
as they only detect antibodies against HIV-1 and HIV-2 (HIV-1/2).	0.003099

3.6.4 Les 20 mots-clés les plus importants du Cluster n°2

hiv	0.078424	study	0.031192
arty	0.045965	woman	0.029068
test	0.044462	usage	0.029052
ahi	0.041584	tb	0.028919
patience	0.040262	intervention	0.028258
treatment	0.039078	participant	0.027060
diagnosis	0.035750	care	0.026879
child	0.035506	among	0.026794
infection	0.031869	infancy	0.025114
ci	0.031685	health	0.024638

3.6.5 Les 13 meilleurs phrases sélectionnés du Cluster n°2

Sentence	Weight
Reactivity with all HIV genotypes was 100%.	0.002051
early HIV infection and LPNT.	0.001934
Overall, 52% of the women reported testing for HIV.	0.001842
221 incident syphilis infections were reported: 46 (21%) in men with HIV (incidence	
1.10 per 100 person-years), 76 (34%) in men without HIV (1.09), 54 (24%) in	0.001840
women with HIV (0.77) , and 45 (24%) in women without HIV (1.11) .	
Mobile HIV screening may facilitate early HIV diagnosis.	0.001828
HIV diagnosis was made during hospitalisation in 23 (30%) of the 76 patients.	0.001821
At enrolment, 1575 (53%) men with HIV and 560 (32%) men without HIV were	
circumcised; an additional 69 (4%) men with HIV and 132 (5%) men without HIV	0.001792
were circumcised during study follow-up.	
HIV programs in Senegal should intensify early HIV diagnosis for effective test-and-	0.001791
treat.	0.001791
A pro-poor wealth-related inequality in early HIV testing was observed.	0.001756
The median age at HIV diagnosis was 2.1 years.	0.001735
Number of medical visits, up to 5 years preceding HIV diagnosis, at which HIV	0.001629
testing had been indicated, according to Swiss HIV testing recommendations.	0.001029
It commonly affects women infected with HIV.	0.001604
Of these, 16 (3.5%) were HIV newly diagnosed, including 2 (0.4%) with AEHI.	0.001592

3.6.6 Les 20 mots-clés les plus importants du Cluster n°3

hiv	0.137950	infection	0.045163
infancy	0.094466	care	0.044275
arty	0.093477	initiation	0.040837
test	0.089468	study	0.040742
ci	0.057291	year	0.039902
child	0.056982	age	0.037830
mortality	0.050101	among	0.037727
diagnosis	0.049543	earliness	0.037302
woman	0.049107	pregnant	0.036265
patience	0.048914	treatment	0.035193

3.6.7 Les 12 meilleurs phrases sélectionnés du Cluster n°3

Sentence	Weight
Of these, 864 HIV exposed infants had DNA-PCR HIV test results available.	0.007952
Overall, the HIV prevalence using the HIVSS test was 8.2% (93/1129).	0.007934
Ninety-eight (71%) infants and children exposed to HIV were diagnosed for HIV infection of which 68(69.4%) initiated ART.	0.007272
For excluding HIV infection (i.e.	0.007029
All households were offered 6-monthly home-based HIV testing.	0.006782
Of those newly diagnosed with HIV, 16% ($12/75$) were initiated on ART.	0.006393
Infant HIV status was determined at 3, 24 and 36 weeks by HIV DNA PCR.	0.006198
Dried Blood Spots samples from HIV exposed infants were tested for HIV.	0.006172
HIV is a major contributor to infant mortality.	0.006113
To assess the performance of rapid HIV tests in comparison to a laboratory-based	
HIV ELISA test for determining HIV-exposure and excluding HIV infection during	0.006067
infancy.	
HIV self-screening (HIVSS) is acceptable to adults, but there is limited data on	0.005876
HIVSS feasibility in community programmes.	0.003670
This review considered studies that included the following outcome: 'late HIV test-	0.005742
ing', 'late HIV diagnosis' and 'late presentation for HIV care after testing'.	0.000142

3.6.8 Les 20 mots-clés les plus importants du Cluster n°4

hiv	0.058655	blood	0.021386
patience	0.035819	incidence	0.021273
infection	0.033226	association	0.020897
usage	0.027610	bed	0.020265
test	0.025415	highness	0.019160
risk	0.025282	donor	0.019056
study	0.024285	transmission	0.018888
disease	0.022853	woman	0.018762
model	0.022403	treatment	0.018496
earliness	0.021872	count	0.017951

3.6.9 Les 14 meilleurs phrases sélectionnés du Cluster n°4

Sentence	Weight
8 (25%) of the patients were HIV seropositive.	0.001577
91% tested positive for HIV.	0.001402
8 (25%) of the patients tested positive for HIV antibodies.	0.001100
280 adults were tested for HIV antibodies.	0.001081
Researchers did not retest any of the seronegative patients for HIV.	0.000946
Frequent retesting for HIV among persons at increased risk of HIV infection is	
critical to early HIV diagnosis of persons and delivery of combination HIV prevention	0.000913
services.	
Of those tested, 14 (4.0%) were HIV-1 infected.	0.000875
CD4+ T-lymphocyte count was used as a marker of HIV disease progression.	0.000861
HIV voluntary counselling and testing (VCT) is important for prevention, detection	0.000855
and treatment of HIV infection.	0.00033
The lack of acute and early HIV infection (AEHI) diagnosis and care contributes to	0.000789
high HIV incidence in resource-limited settings.	0.000169
We tested finger prick blood samples for HIV.	0.000789
The primary outcome was retesting for HIV at both 3 and 6 months.	0.000775
PwD can accurately determine HIV infection recency.	0.000775

3.6.10 Les 20 mots-clés les plus importants du Cluster n°5

infection	0.062318	acuteness	0.028983
hiv	0.048567	primary	0.027288
cell	0.036399	usage	0.027219
virus	0.034895	association	0.026624
subtype	0.034843	immunity	0.025499
viral	0.033374	earliness	0.023927
response	0.031083	antibody	0.023911
sequence	0.030072	study	0.023308
isolates	0.029958	analysis	0.022477
individuality	0.029632	highness	0.022368

3.6.11 Les 10 meilleurs phrases sélectionnés du Cluster n°5

Sentence	Weight
These cells were dramatically increased in chronic HIV infection.	0.001347
Sustained viremia after acute HIV infection is associated with profound CD4	0.001177
MBL levels are not altered by HIV infection or AIDS.	0.001106
We conclude that AM-derived HIV isolates are T-tropic and can enter macrophages	
through contact with an infected CD4+ T cell, which results in productive infection	0.001062
of AMs.	
However, these isolates productively infected macrophages when co-cultured with	0.001059
HIV-infected CD4+ T cells.	0.001039
Taking into account multiplicity of HIV infection strengthened these associations.	0.001009
Only 2 of these 12 viruses showed a syncytium-inducing phenotype after infection	
of primary peripheral blood mononuclear cells (PBMCs) and were infectious for the	0.001003
T cell line C8166.	
In addition, we provide evidence that T-tropic HIV is transmitted from infected	0.000996
CD4+ T cells to the AM cytosol.	0.000990
Additionally, HIV-specific cytolytic CD4+ T cell responses in acute HIV infection	0.000975
are predictive of disease progression.	0.000975
Samples were available for 32 uninfected subjects and 28 infected persons, all within	0.000957
1 year of infection.	0.000937

3.6.12 Les 20 mots-clés les plus importants du Cluster n°6

infection	0.101071	earliness	0.035978
neutralization	0.072379	acuteness	0.035143
cell	0.071468	individuality	0.034822
hiv	0.060770	primary	0.033779
response	0.058958	vaccine	0.033673
antibody	0.055884	epitope	0.032689
viral	0.051052	highness	0.031891
virus	0.045151	load	0.030571
subtype	0.044052	level	0.029487
woman	0.038934	plasma	0.029396

3.6.13 Les 10 meilleurs phrases sélectionnés du Cluster n°6

Sentence	Weight
TRIM5alphahu levels did not change significantly after infection.	0.002869
Primary HIV infection (PHI) and subsequent chronic infection alter B-cell compart-	0.002849
ment.	0.002849
Furthermore, infection is not associated with disregulation of TRIM5alphahu.	0.002762
Here, we assessed CD8+ T cell functional evolution from primary to chronic HIV	0.002582
infection.	0.002382
Establishment of persistent human immunodeficiency virus type 1 (HIV-1) reservoirs	
occurs early in infection, and biomarkers of infected CD4+ T cells during acute	0.002458
infection are poorly defined.	
As infection progressed expression of perforin was maintained in HIV-specific CD8+	
T cells with high levels of T-bet, but not necessarily in the population of T-betLo	0.002438
HIV-specific CD8+ T cells that expand as infection progresses.	
Analyses of immune cells before and after HIV infection revealed an increase in	
both NK-cell activation and KIR expression, but reduced cytotoxicity during acute	0.002384
infection.	
We characterized CD8(+) T-cell responses in 20 acutely infected, antiretroviral-	
naive individuals with HIV-1 subtype C infection using the interferon- γ enzyme-	0.002345
linked immunosorbent spot assay.	
We dissected this bi-directional relationship to understand how HIV impacts NK-	0.002344
cell responses during primary HIV-1 infection.	0.002044
Over 50% of this infection and its associated deaths occurred in Sub-Saharan Africa.	0.002279

3.6.14 Les 20 mots-clés les plus importants du Cluster n°7

hiv	0.178047	arty	0.042432
infection	0.093059	detection	0.041624
test	0.083526	rapidness	0.040636
ahi	0.064331	rna	0.039096
acuteness	0.049286	usage	0.037494
incidence	0.046777	men	0.036040
earliness	0.045822	ci	0.034779
woman	0.045674	participant	0.034643
diagnosis	0.045673	patience	0.034238
risk	0.044609	sex	0.033766

3.6.15 Les 14 meilleurs phrases sélectionnés du Cluster n°7

Sentence	Weight
Overall, 30 patients (1.0%) had acute HIV infection, 56 (1.8%) had early HIV infection, and 238 (8%) had established HIV infection.	0.011557
Of the 467 HIV antibody-negative samples, four (0.9%) were HIV-1 RNA-positive.	0.010837
It further identified different risk factors for prevalent HIV infection (HIV seroposi-	0.010171
tivity) compared with incident HIV (HIV seroconversion).	0.010171
Five-hundred and fifty-three men (40.6%) were HIV antibody positive and 24 (1.8%)	
had acute HIV infection; 23 of 24 acutely infected men were from the STD clinic,	0.009451
where they represented 4.5% of all HIV antibody-negative men and 5.0% of all HIV	0.009451
infections.	
Twenty-one participants (1.45%) had AHI, 588 had established HIV infection, and	0.009172
839 were HIV-negative.	0.009172
Individuals with acute (preseroconversion) HIV infection (AHI) are important in	0.008858
the spread of HIV.	0.000000
29% of HIV infected individuals were at the early stages of infection.	0.008723
There were 228 HIV-negative men at baseline; 10 were positive for HIV RNA, and	0.008428
8 seroconverted to HIV at day 28.	0.006426
Detection of early HIV infections (EHIs), including acute HIV infection (AHI), is	
important for individual health, prevention of HIV transmission, and measurement	0.008412
of HIV incidence.	
HIV transmission risk is higher during acute and early HIV infection than it is	
during chronic infection, but the contribution of early infection to the spread of	0.008237
HIV is controversial.	
Acute HIV infection lasts approximately 3 weeks and early HIV infection, which	0.008070
includes acute HIV infection, lasts approximately 7 weeks.	0.008070
HIV testing identified 978 seroconverter cases.	0.007992
Acute HIV infection (AHI) is the time of virus acquisition until the appearance of	0.007987
HIV antibodies.	0.001901
HIV RNA screening has the potential to identify both acute and chronic HIV infec-	0.007827
tions that are otherwise missed by standard HIV testing algorithms.	0.001021

3.7 Résumé généré avec la méthode SVD sur les poids de mots

To study the structure of human immunodeficiency virus\xa0(HIV)-1 drug resistance (DR) in patients with newly diagnosed infection. Information on treatment failure (TF) in People living with

HIV in a data-poor setting is necessary to counter the epidemic of TF with first-line combined antiretroviral therapies (cART) in sub-Saharan Africa (SSA). Post-partum loss to follow-up and lack of early HIV infant diagnosis (EID) can significantly affect the efficiency of programs for the prevention of mother-to-child transmission. Pre-exposure prophylaxis (PrEP) reduces HIV acquisition risk by >90% and is a critical lever to reduce HIV incidence. Broadly neutralizing antibodies (bNAbs) for HIV-1 prevention or cure strategies must inhibit transmitted/founder and reservoir viruses. The observation that HIV-1 subtype D progresses faster to disease than subtype A prompted us to examine cytokine levels early after infection within the predominant viral subtypes that circulate in Uganda and address the following research questions: (1) Do cytokine levels vary between subtypes A1 and D? Blood donations in South Africa are tested for HIV RNA using individual donation NAT (ID-NAT), allowing detection and rapid antiretroviral therapy (ART) of acute HIV infections.

3.7.1 Excluant les phrases détaillant les participants à la recherche

To study the structure of human immunodeficiency virus\xa0(HIV)-1 drug resistance (DR) in patients with newly diagnosed infection. Information on treatment failure (TF) in People living with HIV in a data-poor setting is necessary to counter the epidemic of TF with first-line combined antiretroviral therapies (cART) in sub-Saharan Africa (SSA). Post-partum loss to follow-up and lack of early HIV infant diagnosis (EID) can significantly affect the efficiency of programs for the prevention of mother-to-child transmission. Pre-exposure prophylaxis (PrEP) reduces HIV acquisition risk by >90% and is a critical lever to reduce HIV incidence. Broadly neutralizing antibodies (bNAbs) for HIV-1 prevention or cure strategies must inhibit transmitted/founder and reservoir viruses. The observation that HIV-1 subtype D progresses faster to disease than subtype A prompted us to examine cytokine levels early after infection within the predominant viral subtypes that circulate in Uganda and address the following research questions: (1) Do cytokine levels vary between subtypes A1 and D? Blood donations in South Africa are tested for HIV RNA using individual donation NAT (ID-NAT), allowing detection and rapid antiretroviral therapy (ART) of acute HIV infections.

Les mêmes poids de mots-clés sont utilisés pour cette méthode que pour la précédente. Ici, nous filtrons les phrases ne détaillant pas les participants à la recherche, puisqu'ils ressortent les plus souvents.

3.7.2 Les 20 mots-clés les plus importants du Cluster n°1

hiv	1.014094	viral	0.325885
infection	0.920726	sample	0.322968
test	0.585414	estimation	0.319332
acuteness	0.412104	usage	0.318007
detection	0.411193	combo	0.310969
woman	0.390559	study	0.277806
assay	0.374073	sensitivity	0.276503
transmission	0.362994	highness	0.275194
antibody	0.328457	antigen	0.274724
blood	0.326338	positivity	0.268177

3.7.3 Les 10 meilleurs phrases sélectionnés du Cluster n°1

Sentence	Weight
To study the structure of human immunodeficiency virus (HIV)-1 drug resistance	
(DR) in patients with newly diagnosed infection.	-
Cervical loads were significantly higher (0.7-1.1 log10 copies/swab) during acute	
infection than subsequently.	-
Subtype C infection, nonviral sexually transmitted infections, having a partner	
spending nights away from home, recent unprotected sex, and shorter time since	-
infection were associated with higher cervical HIV-1 loads.	
Hormonal contraception was not associated with either the HIV-1 plasma setpoint	
or cervical loads during early infection.	-
Cervical HIV-1 viral loads were highest during acute infection and then declined up	
to 6 months following infection, when a 'setpoint' was attained.	-
The prognostic value of a cervical 'setpoint' on future transmission risk remains	
unclear.	-
An enzyme immunoassay to detect recent HIV-1 infection (EIA-RI) of less than	
6 months is routinely performed on diagnoses reported to the National HIV case	_
surveillance in France.	
We assessed the performance of the EIA-RI infection on this country population scale	
by measuring its agreement with other indicators of time since infection that were	
obtained through clinical, biological or testing history recorded on the surveillance	-
reporting form.	
We used data from the National HIV case surveillance from its debut in March 2003	
to June 2007.	-
Infection within 6 months was defined as a negative test reported within 6 months	
prior to diagnosis.	-

3.7.4 Les 20 mots-clés les plus importants du Cluster n°2

hiv	0.896458	infection	0.376747
ahi	0.553200	study	0.360529
arty	0.514886	intervention	0.349843
test	0.505890	participant	0.341627
patience	0.476675	usage	0.333316
treatment	0.464863	woman	0.322671
diagnosis	0.422244	care	0.314278
child	0.383657	among	0.310905
tb	0.378501	incidence	0.291897
ci	0.378351	health	0.280750

3.7.5 Les 10 meilleurs phrases sélectionnés du Cluster n°2

Sentence	Weight
Information on treatment failure (TF) in People living with HIV in a data-poor set-	
ting is necessary to counter the epidemic of TF with first-line combined antiretroviral	_
therapies (cART) in sub-Saharan Africa (SSA).	
While documentation of clinical staging remained stable, the completeness of CD4+	
cell count and haemoglobin data declined with time.	_
Participants were theoretically sampled and consisted of individuals who had immi-	
grated from Ethiopia and Eritrea.	_
This study was performed in an attempt to understand the barriers for early HIV	
testing in a migrant population from Ethiopia and Eritrea in Stockholm, Sweden.	_
If found to be HIV positive, and if the immune system is already significantly af-	
fected, this will compromise the treatment outcome.	_
There is also evidence that many immigrants come late for their first HIV test.	-
Studies confirm that if treatment of HIV is initiated when the immune system is not	
severely affected by the virus the prognosis for the outcome is significantly better.	_
The outcome of HIV treatment has dramatically improved since the introduction of	
antiretroviral therapy.	_
The paradox of successful scaling up HIV services but deteriorating quality of data	
underscores the importance of data management training and quality improvement	_
efforts.	
Yet, as clinical services expanded, data collection quality declined.	-

3.7.6 Les 20 mots-clés les plus importants du Cluster n°3

hiv	1.158951	patience	0.397143
infancy	0.875320	care	0.363281
arty	0.766659	initiation	0.350684
test	0.737016	study	0.344313
child	0.491448	year	0.338213
ci	0.475891	mother	0.329258
mortality	0.438131	age	0.327127
diagnosis	0.420170	pregnant	0.324751
infection	0.410375	earliness	0.309948
woman	0.402281	among	0.308826

3.7.7 Les 10 meilleurs phrases sélectionnés du Cluster n°3

Sentence	Weight
Post-partum loss to follow-up and lack of early HIV infant diagnosis (EID) can	
significantly affect the efficiency of programs for the prevention of mother-to-child	_
transmission.	
We assessed a strategy to diagnose AHI among young adult patients seeking care.	-
This study aims to identify (1) optimal testing intervals to maximize the number of	
perinatal HIV infections diagnosed and (2) programmatic issues that impact diag-	_
nosis.	
A mathematical model was developed to simulate antiretroviral prophylaxis uptake	
and health outcomes in 240,000 HIV-exposed South African infants.	_
The model considered routine early testing with 1 PCR (at birth, 6, 10, or 14 weeks	
of age) and with 2 PCR tests (at birth and at 6, 10, or 14 weeks of age).	_
A single 6-week test would diagnose the same number of perinatal HIV infections	
as birth testing $(P = 0.92)$ but fewer infections than a 10-week test $(P < 0.01)$.	_
Ten-week testing identifies the highest number of perinatally infected infants (P <	
0.01 compared with a single test at all other ages) but does not save additional life	_
years compared with birth testing $(P = 0.27)$.	
Performing 2 PCR tests (at birth and 10 weeks) would identify the highest number	
of perinatal infections ($P < 0.01$ versus a second 6- or 14-week test).	_
However, 25% of perinatal HIV infections would remain undiagnosed, largely be-	
cause of failure to return PCR test results to caregivers.	_
Six weeks may no longer be the optimal age to diagnose perinatal HIV infections.	-

3.7.8 Les 20 mots-clés les plus importants du Cluster n°4

hiv	0.654527	bed	0.288895
patience	0.394632	study	0.263782
infection	0.378677	donation	0.259044
usage	0.328923	estimation	0.250662
risk	0.306885	disease	0.245327
donor	0.306477	assay	0.237229
test	0.302405	transmission	0.236214
model	0.298026	earliness	0.228329
blood	0.295502	association	0.217100
incidence	0.289483	highness	0.213280

3.7.9 Les 10 meilleurs phrases sélectionnés du Cluster n°4

Sentence	Weight
Pre-exposure prophylaxis (PrEP) reduces HIV acquisition risk by >90% and is a	
critical lever to reduce HIV incidence.	_
The article is based on more than 50 semi-structured interviews with a range of	
participants affiliated with HIV/AIDS organisations (e.g.	_
As Zambian churches built ties to external actors, however, they gained autonomy	
in their HIV/AIDS responses.	_
Overlapping personal networks between civil society and state elites in Ghana urged	
early HIV/AIDS church-related actions, while state co-optation and civil-society	_
divisions in Zambia limited early HIV/AIDS activities.	
The elite and professional nature of Ghana's churches promoted early HIV/ AIDS	
activities, but may have prevented these activities from responding to the needs of	_
people with HIV or AIDS.	
The analysis finds that continued HIV/AIDS stigma hampered Ghanaian church	
activities, while a decline in stigma opened up space for church-related HIV/AIDS	_
responses in Zambia.	
The article uses three levels of analysis - society, state, and international - to expli-	
cate these different patterns.	_
It analyses why long-term interest in HIV and AIDS has declined in Ghana but	
increased in Zambia, and why church involvement in promoting access to HIV/AIDS	_
treatment has been less apparent in Ghana than in Zambia.	
This article compares Ghanaian and Zambian church mobilisation on HIV and AIDS.	-
These data provide evidence that in utero transmission of HIV might be higher	
among women who seroconvert during pregnancy.	_

3.7.10 Les 20 mots-clés les plus importants du Cluster n°5

infection	0.582834	primary	0.267111
hiv	0.442489	usage	0.263940
cell	0.333337	association	0.253082
subtype	0.329037	acuteness	0.244584
virus	0.320268	immunity	0.243469
isolates	0.314299	earliness	0.239156
viral	0.314084	study	0.233144
sequence	0.304746	strain	0.220245
response	0.283425	analysis	0.209773
individuality	0.276931	gene	0.204094

3.7.11 Les 10 meilleurs phrases sélectionnés du Cluster n°5

Sentence	Weight
Broadly neutralizing antibodies (bNAbs) for HIV-1 prevention or cure strategies	
must inhibit transmitted/founder and reservoir viruses.	-
The progress of antiretroviral treatment roll-out programs in developing countries	
requires extensive monitoring of primary drug resistance prior to initiation of ther-	-
apy.	
Samples were available for 32 uninfected subjects and 28 infected persons, all within	
1 year of infection.	_
HIV-1-positive participants had higher levels of IFN- β (P = 0.0005), MxA (P =	
0.007), and TRIM22 (P = 0.01) and lower levels of huTRIM5 α (P < 0.001) than	_
did HIV-1-negative participants.	
TRIM22 but not huTRIM5 α correlated positively with type 1 IFN (IFN- α , IFN- β ,	
and MxA) (all $P < 0.0001$).	-
In a multivariate model, increased MxA expression showed a significant positive	
association with viral load ($P = 0.0418$).	-
Furthermore, TRIM22 but not huTRIM5 α , IFN- α , IFN- β , or MxA showed a nega-	
tive correlation with plasma viral load ($P = 0.0307$) and a positive correlation with	
CD4(+) T-cell counts (P = 0.0281).	
In vitro studies revealed that HIV infection induced TRIM22 expression in PBMCs	
obtained from HIV-negative donors.	_
Stable TRIM22 knockdown resulted in increased HIV-1 particle release and replica-	
tion in Jurkat reporter cells.	_
Collectively, these data suggest concordance between type 1 IFN and TRIM22 but	
not huTRIM 5α expression in PBMCs and that TRIM 22 likely acts as an antiviral	_
effector in vivo.	

3.7.12 Les 20 mots-clés les plus importants du Cluster n°6

infection	0.901233	earliness	0.321180
cell	0.631606	acuteness	0.319317
neutralization	0.626963	individuality	0.307811
response	0.553473	epitope	0.296857
hiv	0.544698	vaccine	0.286793
antibody	0.483842	load	0.283515
viral	0.460182	primary	0.281347
virus	0.383474	highness	0.277704
woman	0.357174	plasma	0.265688
subtype	0.349458	level	0.262733

3.7.13 Les 10 meilleurs phrases sélectionnés du Cluster n°6

Sentence	Weight
The observation that HIV-1 subtype D progresses faster to disease than subtype A	
prompted us to examine cytokine levels early after infection within the predominant	
viral subtypes that circulate in Uganda and address the following research questions:	_
(1) Do cytokine levels vary between subtypes A1 and D?	
Finally, the existence of several distinct overlapping epitopes in CBD1 is con-	
firmed by murine monoclonal antibodies that we generated against the CBM-derived	-
chimeric peptides.	
Human TRIM5alpha (TRIM5alphahu), a member of the tripartite motif protein	
family, displays some anti-human immunodeficiency virus type 1 (HIV-1) activity	
in vitro, although it is substantially less potent than its rhesus monkey counterpart	_
(TRIM5alpharh).	
The effects of levels of TRIM5alphahu on prevention or control of HIV-1 infection	
in vivo are unknown.	_
We used a quantitative real-time polymerase chain reaction (PCR) assay to measure	
levels of TRIM5alphahu expression in peripheral blood mononuclear cells (PBMCs)	_
obtained from a cohort of individuals at high risk for HIV-1 infection in Durban,	_
South Africa.	
Samples were available from 38 infected subjects (with all these samples obtained	
within 1 year of infection) and from 57 uninfected persons.	_
Matched preinfection and postinfection samples were available from 13 individuals.	_
TRIM5alphahu messenger RNA levels were lower in the PBMCs of HIV-1-infected	
subjects than in those of uninfected subjects (P $<$.001).	
Seroconverters had lower preinfection levels of TRIM5alphahu than did nonserocon-	
verters $(P<.001)$.	
TRIM5alphahu levels did not change significantly after infection.	_

3.7.14 Les 20 mots-clés les plus importants du Cluster n°7

hiv	1.504043	woman	0.341844
infection	0.764961	detection	0.340479
test	0.708890	rna	0.335332
ahi	0.541931	arty	0.291773
acuteness	0.430375	usage	0.290701
incidence	0.377779	men	0.286842
earliness	0.377720	ci	0.284030
rapidness	0.375592	participant	0.283997
diagnosis	0.356884	patience	0.276027
risk	0.354601	study	0.259860

3.7.15 Les 10 meilleurs phrases sélectionnés du Cluster n°7

Sentence	Weight
Blood donations in South Africa are tested for HIV RNA using individual donation	
NAT (ID-NAT), allowing detection and rapid antiretroviral therapy (ART) of acute	-
HIV infections.	
Acute HIV infections were more prevalent at sites with higher HIV prevalence and	
lower malaria endemicity.	_
The yield of screening for acute HIV infection among general medical patients in	
resource-scarce settings remains unclear.	_
Our objective was to evaluate the strategy of using pooled HIV plasma RNA to	
diagnose acute HIV infection in patients with negative or discordant rapid HIV	-
antibody tests in Durban, South Africa.	
We prospectively enrolled patients with negative or discordant rapid HIV antibody	
tests from a routine HIV screening programme in an out-patient department in	
Durban with an HIV prevalence of 48%.	
Study participants underwent venipuncture for pooled qualitative HIV RNA, and, if	_
this was positive, quantitative RNA, enzyme immunoassay and Western blot (WB).	_
Patients with negative or indeterminate WB and positive quantitative HIV RNA	_
were considered acutely infected.	_
Those with chronic infection (positive RNA and WB) despite negative or discordant	_
rapid HIV tests were considered to have had false negative rapid antibody tests.	_
Nine hundred and ninety-four participants were enrolled with either negative	_
(n=976) or discordant (n=18) rapid test results.	_
Eleven [1.1%; 95% confidence interval (CI) 0.6-2.0%] had acute HIV infection, and	
an additional 20 (2.0%; 95% CI 1.3-3.1%) had chronic HIV infection (false negative	-
rapid test).	