

Mapping of new diagnoses in Paris Area: The Cartoviz tool from the COINCIDE study



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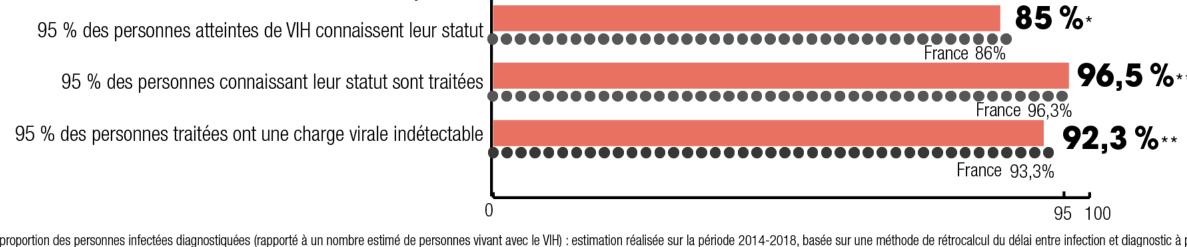
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Introduction

1. Paris area represents 42% of new HIV diagnoses in France. (Marty et al. J Int AIDS Soc 2018).

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2. UNAIDS objective are still not achieved in Paris area



des données des déclarations obligatoires du VIH (système de surveillance et de collecte géré par Santé publique France) - Source : ANRS CO4-FHDH, INSERM - Marty L et al. Revealing geographical and population heterogeneity i undiagnosed HIV prevalence and time to diagnosis to improve prevention and care: estimates for France. Journal of the International AIDS Society. 2018;21(3):e25100.

** données 2021, dernières données disponibles. Cohortes hospitalières ANRS CO4 FHDH et ANRS CO3 AQUIVIH de suivi de personnes vivant avec le VIH (FHDH et AquiVIH) non exhaustives. Charge virale <50cp/ml, en 2021

3. HIV screening and prevention strategies target key population (with highest risk of contamination) of HIV epidemic but not enough key territories (where the rate and the number of new diagnises are highest) due to lack of data.

Objective

Mapping new HIV diagnoses in Paris area at the subdepartmental level, globally and according to key populations.

Patients and Methods

- Data were collected from medical records of PLHIV
 - diagnosed between 2014 and 2021
 - living in Paris area at diagnosis
 - taken in charge in the 52 HIV clinical centres of Paris Area
- The scale of the district was used in Paris/ the commune outside Paris
- The following indicators were mapped:
 - Standardized rate of new HIV diagnoses : globally/in men/in women
 - Number of new HIV diagnoses
 - Proportion of late diagnosis (CD4< 350/mm³ or AIDS)
 - Proportion of early diagnoses (CD4≥ 500/mm³ or Primary infection)
 - Sex ratio M/F
 - Ratio HSH/ Born-abroad
- 3 key populations were considered:
 MSM / Born-abroad non-MSM people / Women

Characteristics of the study population, n = 10 510 new HIV diagnoses between 2014 et 2021 in Paris Area

Age (year)	36 (29-46)			
Sex M F T	7331 (68) 3327 (31) 168 (1)			
Transmission risk group				
Heterosexuality MSM Other Unknown	5544 (54) 4434 (43) 306 (3) 543			

Pays de naissance Sub-Saharan Africa (SSA) France Maghreb and Middle East Latine America Eastern Europe Other Unknown	4574 (43) 4074 (38) 577 (6) 456 (5) 201 (2) 677 (6) 106		
CD4 count (/mm³)	352 (184-532)		
Late diagnosis CD4 < 350/mm ³ ou SIDA	5 178 (48)		
Advanced diagnosis CD4 < 200/mm ³ ou SIDA	2969 (27)		

 Place of residence Paris Inner suburb Inner suburb (92-93-94) Outer suburb (78-95-77-91) 	3815 (35) 7012 (65) 4048 (38) 2964 (27)
 Place of care Paris Hors Paris Petite couronne (92-93-94) Grande couronne (78-95-77-91) 	6157 (57) 4632 (43) 3014 (28) 1618 (15)
Precarious housing (Homeless / hosted by a third person)	2057 (20)
Results are expressed as median (IQR) or n(%)	

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Proportion de diagnostics tardifs (période 2014-2021, er

How to use Cartoviz COINCIDE

Rate of new diagnoses at the departmental and sub-departmental level

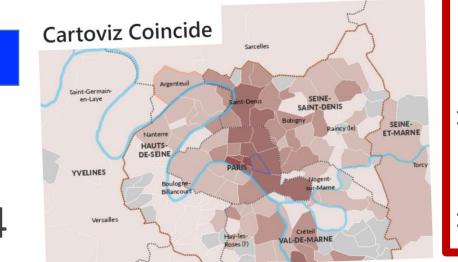
IDF N= 9661 (100%)	75 n = 3 223 (35)	92 n = 1 042 (11)	93 n = 1 622 (16)	94 n = 1 050 (11)	77 n = 751 (7)	78 n = 519 (5)	91 n = 798 (8)	95 n = 656 (7)
Taux / 100 000 hab	162	76	120	90	83	54	85	72
Taux Max (arrdt/ com/ EPCI	400 (centre) 200 (10 ^e , 11 ^e , 12 ^{e,} 18 ^e , 19 ^e , 20 ^e)	155 Vill La G	203 St Denis	183 Vill St G	134 Melun Val de S	126 Mantes la J	152 Athis-Mons	125 Cergy

- Highest rates and number of new HIV diagnoses in Paris districts
- Dynamic evolutions between 2014 and 2021 less favourable outside of Paris
 - Strong predominance of MSM epidemic in Paris
- Strong predominance of Born abroad non-MSM people oustide of Paris
- Late HIV diagnoses more frequent outside of Paris, whatever the population

3 indicators to identify key territories in Paris area:

- 1- Standardized rate of new HIV diagnoses
- 2- Number of new HIV diagnoses
- 3- Proportion of late HIV diagnoses
- When high = Key population are not reached by Screening strategies
- 1 Indicator to caracterize the predominant key populations between MSM and Born foreign people (non MSM): Ratio MSM/ Etr

https://www.ors-idf.org/cartes-donnees/coincide/



Conclusion

To achieve UNAIDS Objective in Paris area, additional efforts are needed

- To reach out to the hardest-to-reach populations: Born foreign people
- By targetting key territories, expecially in suburbs
- ⇒ Raising awareness among all those involved in screening/prevention (GP, Lab, Pharmacy, CPTS, CPEF, Gynecology, SF, Screening of future fathers in maternity wards ...)

FAST-TRACK CITIES 2024

- ⇒ Systematic screening of key populations
- ⇒ PrEP deployment : Long-acting PrEP +++