



Discussion of multi-indicator analysis as a tool for better understanding DRD with French data

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Background (1)

- HROU estimate (in the last 30 days) :

210 000 [180 000 – 240 000] in 2017

- Opioid users in OST (in the last year):

180 000 [175 000 - 185 000] in 2018

64 % buprenorphine / 36 % methadone

- % injectors among HROU entering treatment (TDI) :18 %
usual route of administration

Background (2)

- Reported DRD with opioids: 337 in 2017 (SR)
298 in 2015 (GR)
- Opioid-related mortality rate: 8 deaths per million (15-64 year-olds) in 2017 (SR)
- Capture-recapture studies in 2001-2002, 2004-2005 et 2007
 - ✓ DRD underestimation at least 30% (2011, Janssen, SUM)
- Mortality cohort study : 2009-2015
Causes of death
% External causes = % ill-defined or unknown causes
 - DRD underestimation of 100%?

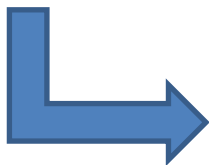
Opioid multi-indicator analysis

France	Mortality risk - estimated	Expected deaths	Reported deaths “with opioids”
180,000 in OST	1.4/1000 1.4 to 2.6/1000	252 aprox 329	
24 600 not in OST, not injectors	4.3/1000	106 aprox	
5 400 non in OST, injectors	14.5/1000	78 aprox	
Total: 210,000		513	337 (SR)

Opioid multi-indicator analysis – discussion (1)

France	Mortality risk - estimated	Expected deaths	Reported deaths "with opioids"
180,000 in OST	1.4/1000 bupre 2,6 mtd	329 aprox	
41 000 not in OST, not injectors	4.3/1000	176 aprox	
9 000 non in OST, injectors	14.5/1000	130 aprox	
Total: 230 000		635	337

HROU :
 - Estimate in the last 30 days
 - Large CI
 180 000- 240 000
 - penultimate estimate (2015)
 +20 000



Opioid multi-indicator analysis – discussion (2)

People in OST :

- misuse (buprenorphine injection)
- Combinations with illicit opioids
- Stopping OST



France	Mortality risk - estimated	Expected deaths	Reported deaths "with opioids"
180,000 in OST	1.4-2.6/1000	329 aprox	
41 000 not in OST, not injectors	4.3/1000	176 aprox	
9 000 non in OST, injectors	14.5/1000	130 aprox	
Total: 230,000		635	337

Opioid multi-indicator analysis – discussion (2)

France	Mortality risk - estimated	Expected deaths	Reported deaths “with opioids”
in OST : safe use 125 000	1.4-2.6/1000	229 aprox	
In OST : misuse, polyconsommation 41 000	6/1000**	246	
Out of OST : stopping in the year 14 000	4,6/1000* bupre 12,7/1000* mtd	100	
41 000 not in OST, not injectors	4.3/1000	176 aprox	
9 000 non in OST, injectors	14.5/1000	130 aprox	
Total: 230 000		881	337

** 2009-2015 French cohort study,

*2017,Sordo

Conclusion

- ✓ Interesting tool
- ✓ Refine some subgroups
- ✓ Triangulation with reported DRD (GMR,SR), mortality cohort studies, estimates of underestimation (capture-recapture)