

Trends in Opioid Analgesic Abuse and Mortality in Europe in 2017

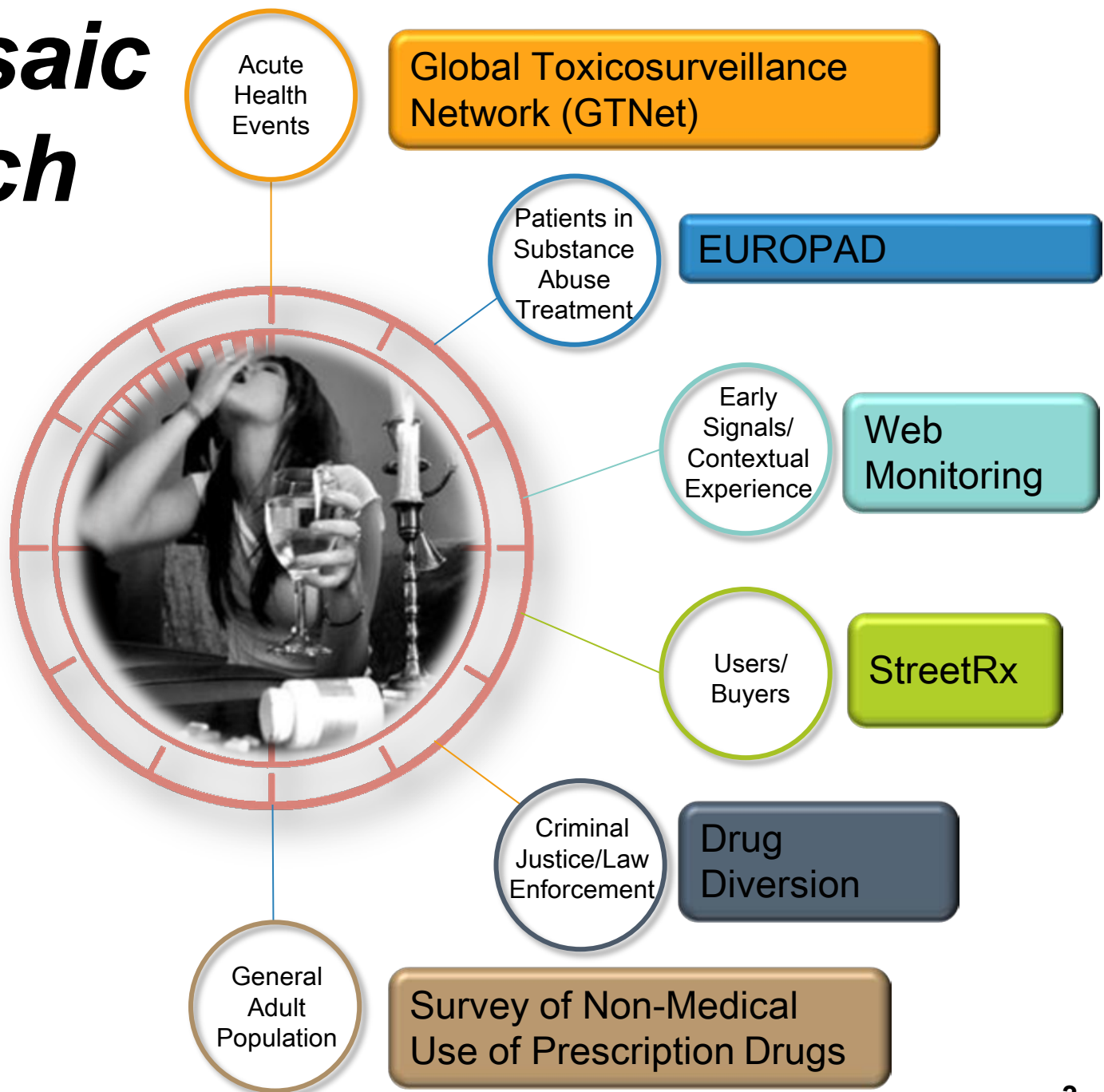
**11 September 2017
EUROTOX 2017**

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Denver Health and Hospital Authority
RADARS[®] System**

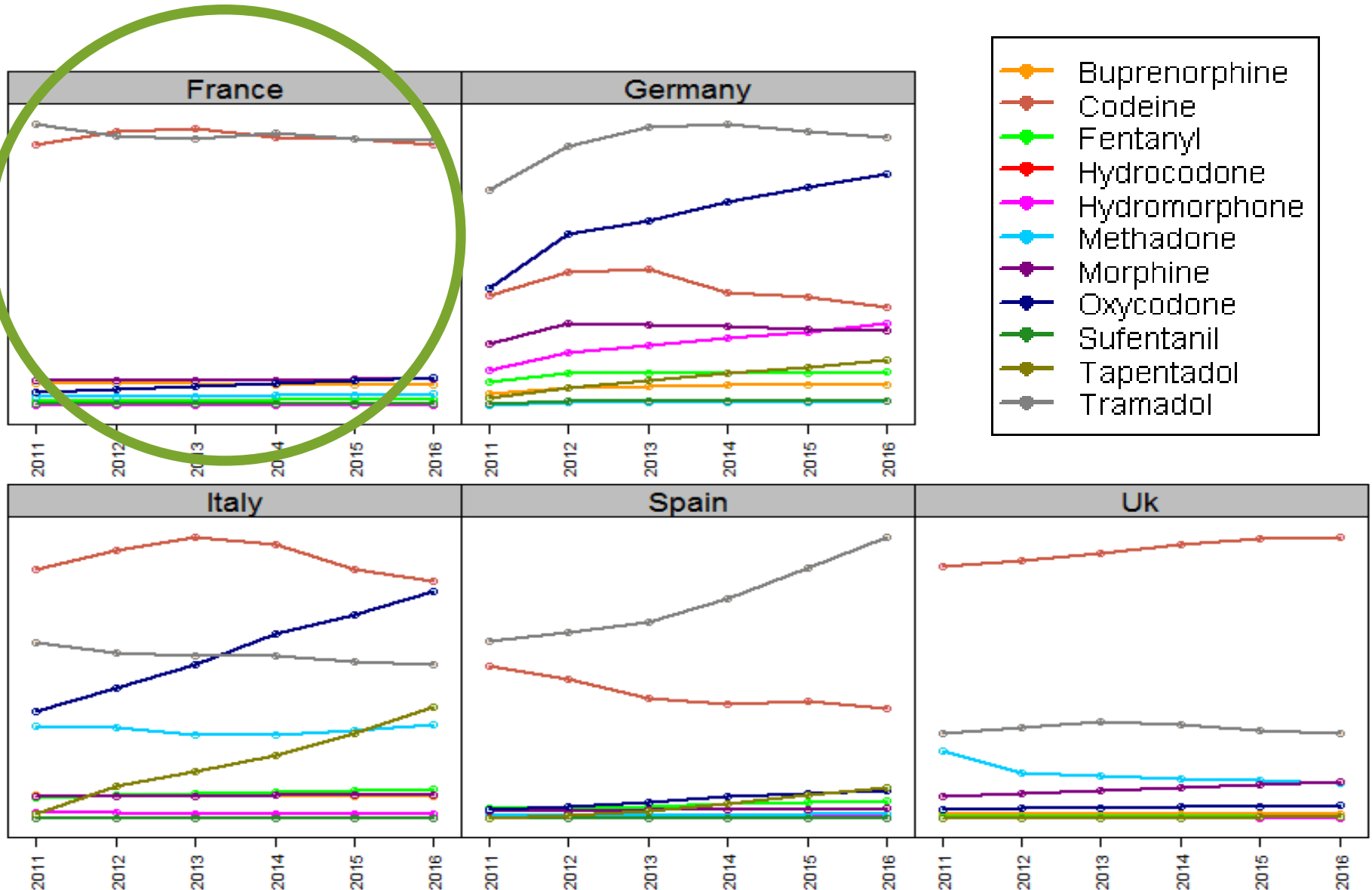
Introduction

- A *mosaic* approach – use of multiple different data sources, surveying different populations, collecting important outcome measures
- Important to look within a country, comparing trends across countries but quantitative rates not comparable due to varying methodology, cultures, market availability
- Important to be product and route specific to identify risks and evaluate interventions such as abuse deterrent formulations

The Mosaic Approach

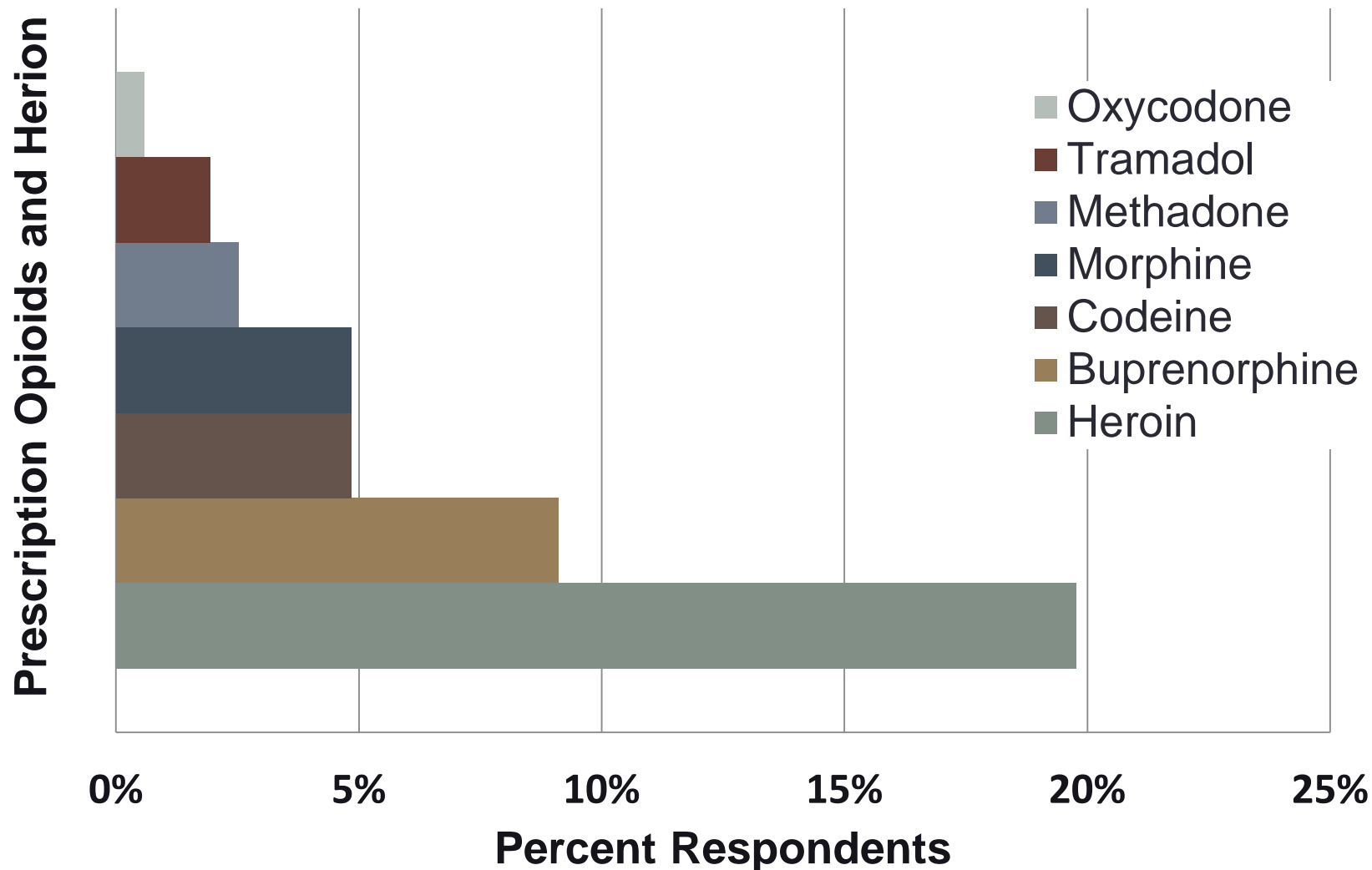


Europe – Dosage Units per Population



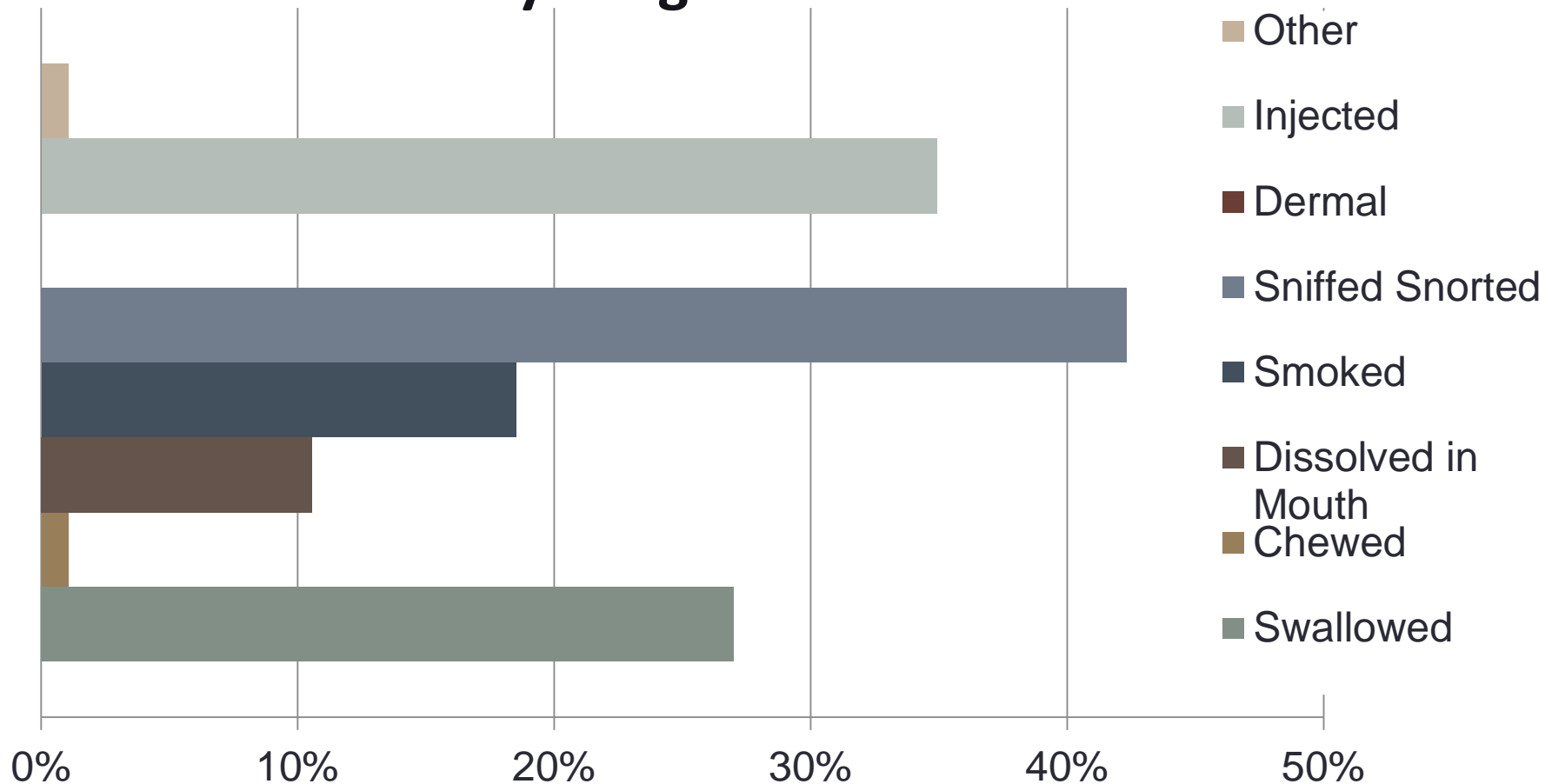
France- EUROPAD (through 4Q2016)

Primary Drug Used to Get High in Past Month



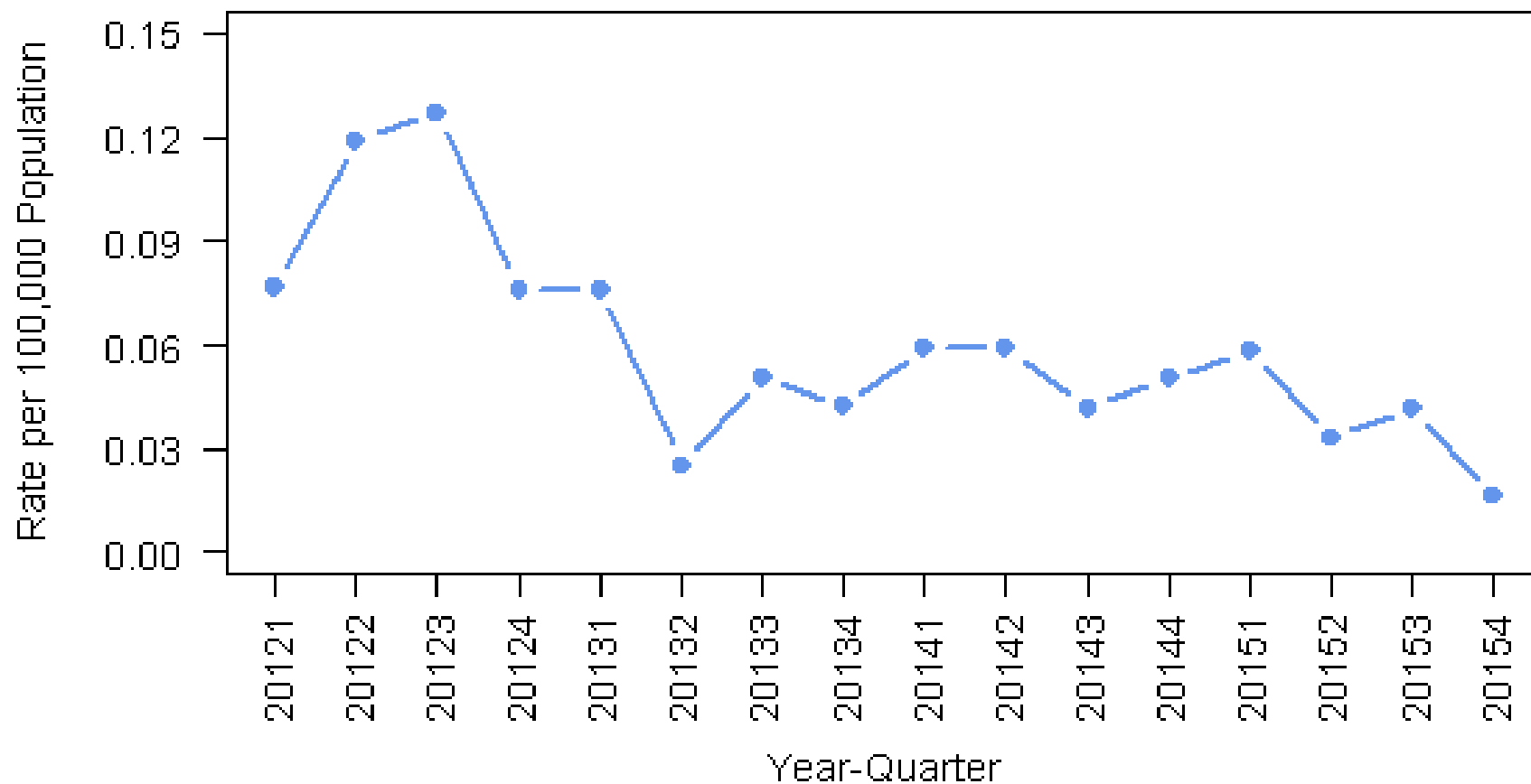
France- EUROPAD

Route of Primary Drug

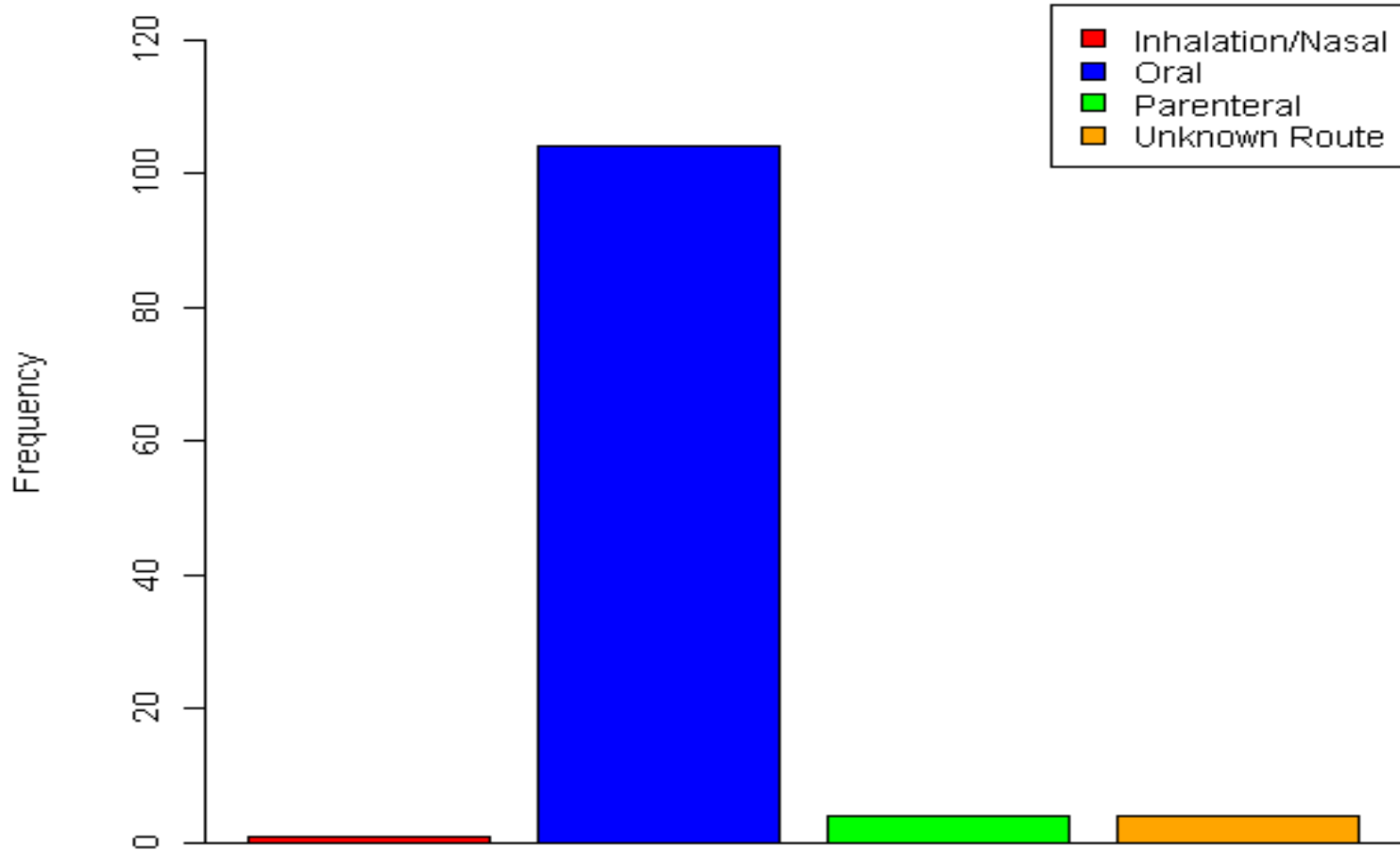


France GTNet—Adult Human Exposures to Opioids Reported to Poison Center

France Intentional Opioid Rate per 100,000 Population



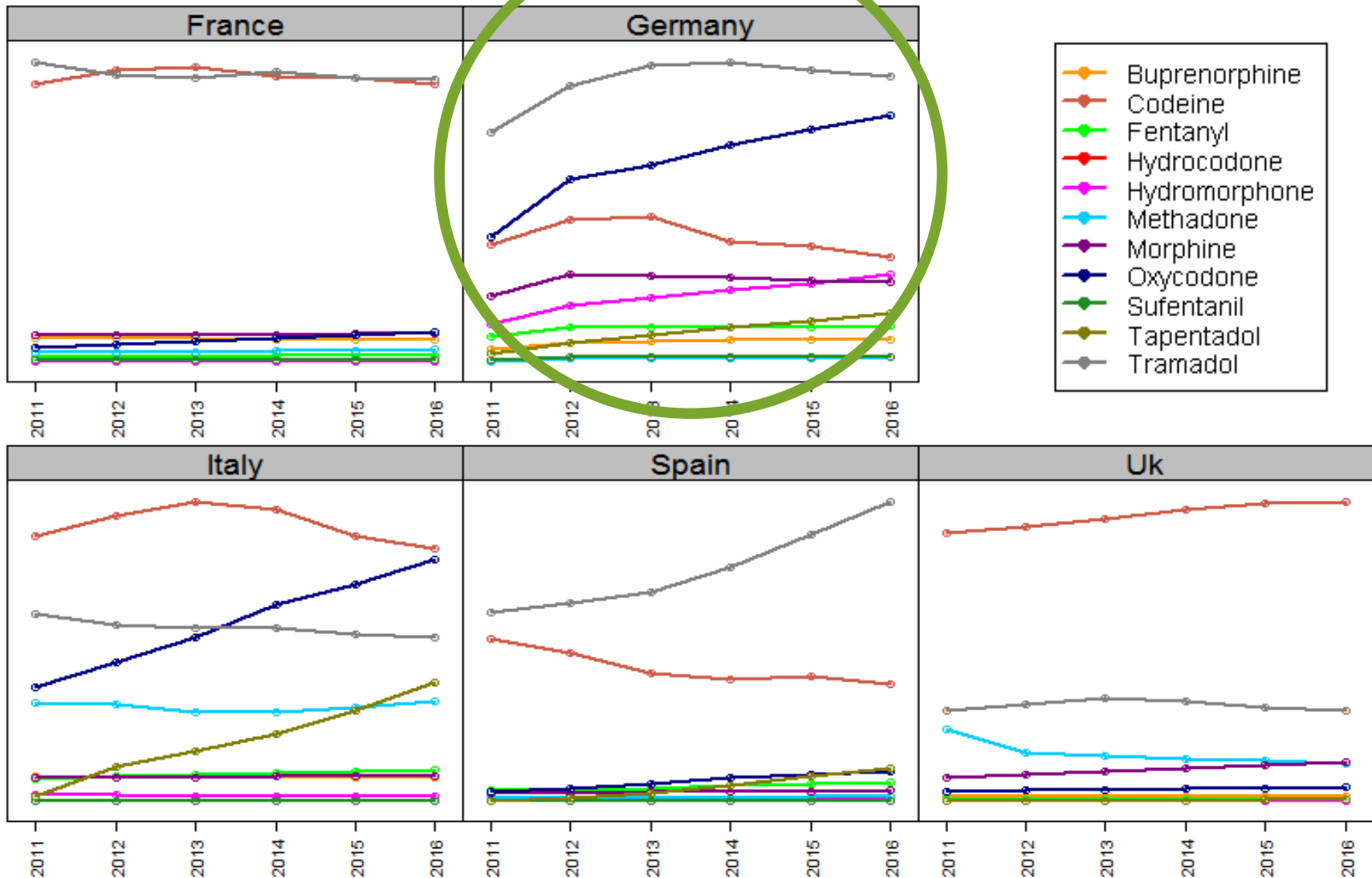
France GTNet—Adult Human Exposures to Opioids Reported to Poison Center



France Summary

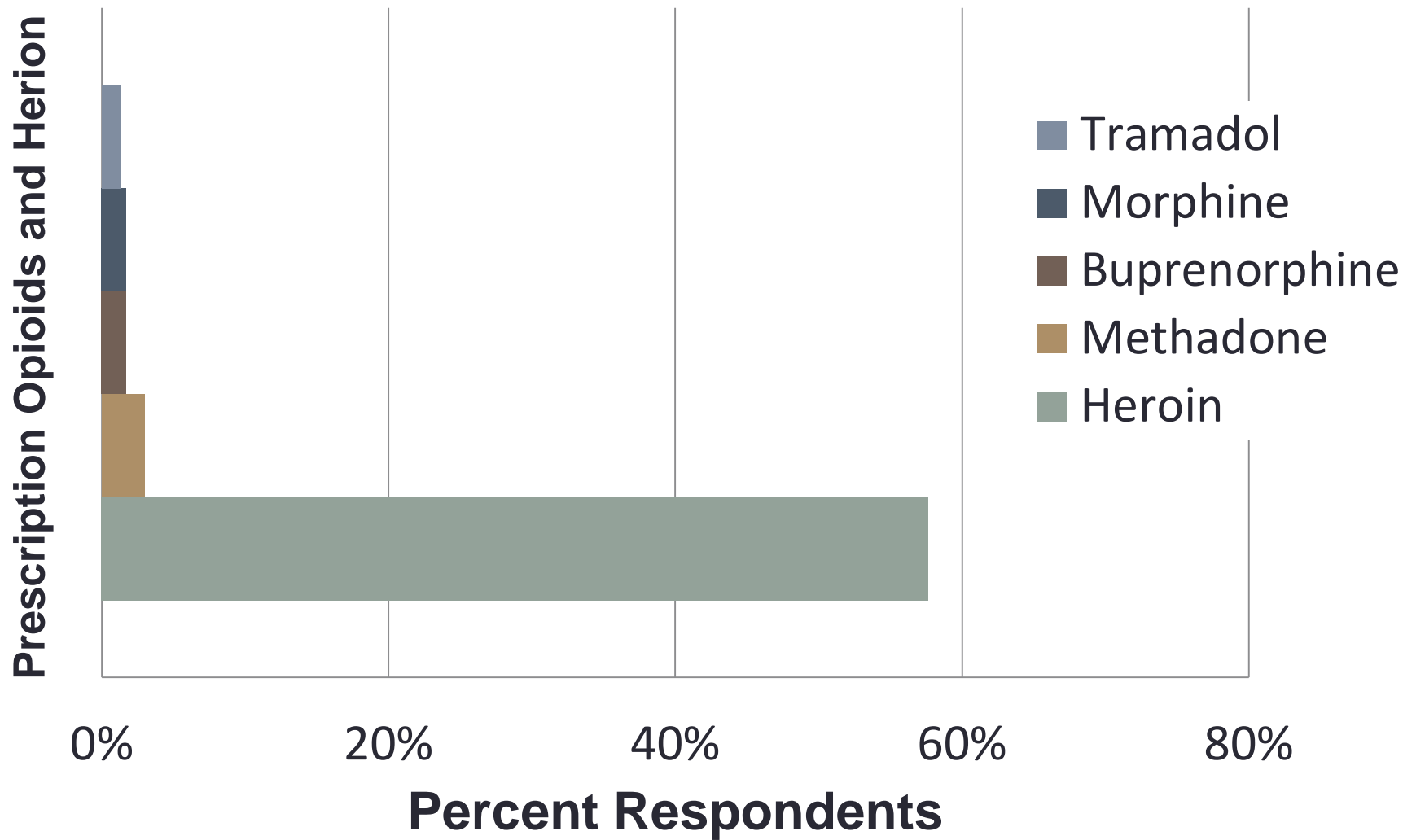
- Codeine and tramadol by far the most utilized, most other opioids increasing
- Patients entering substance abuse treatment most often report heroin and buprenorphine as their primary drug of abuse
 - Sniff/smoke primary drug 42%
 - Inject primary drug 34%
- Decreasing exposures reported to poison centres

Europe – Dosage Units per Population



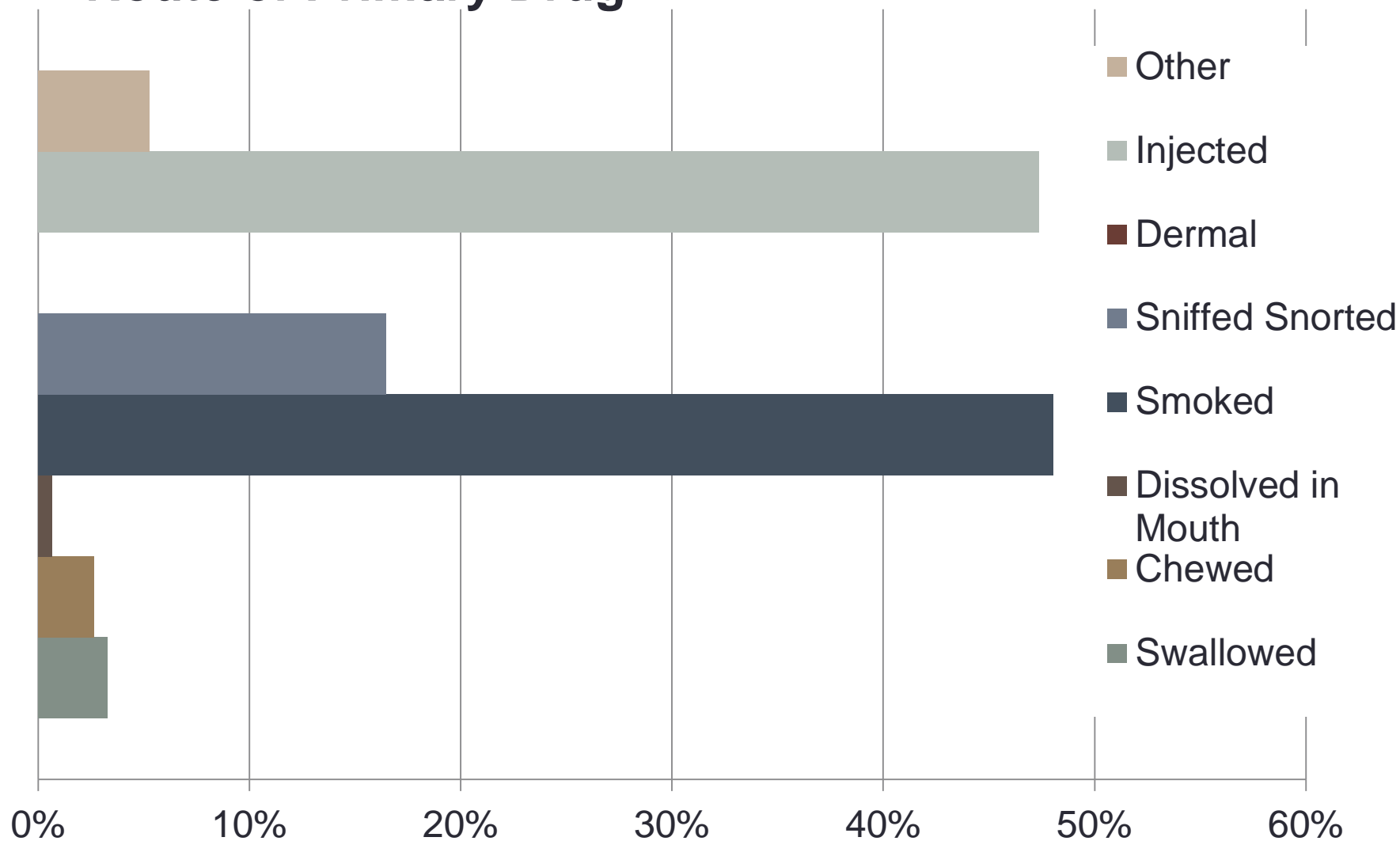
Germany - EUROPAD

Primary Drug Used to Get High in Past Month



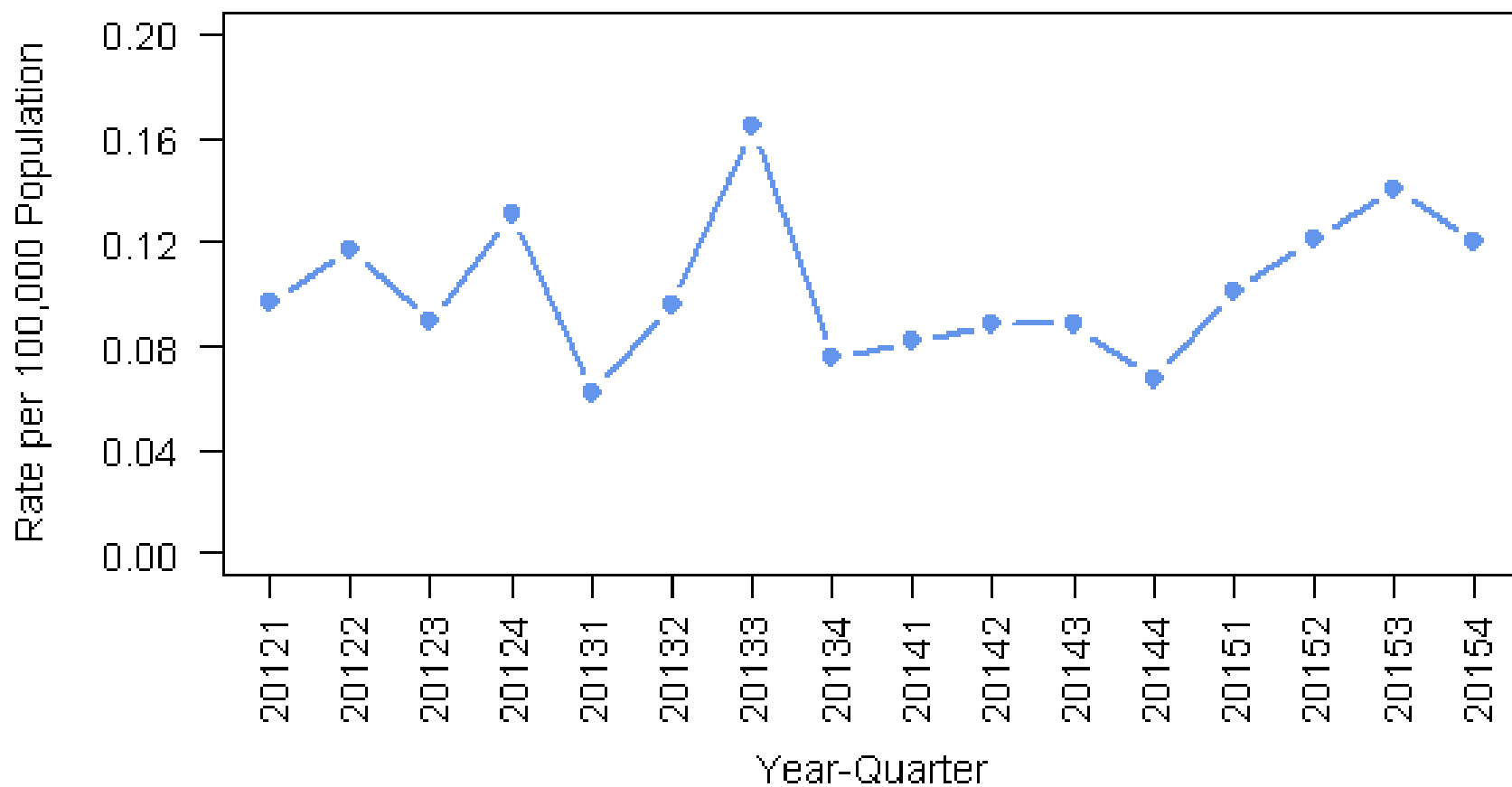
Germany - EUROPAD

Route of Primary Drug

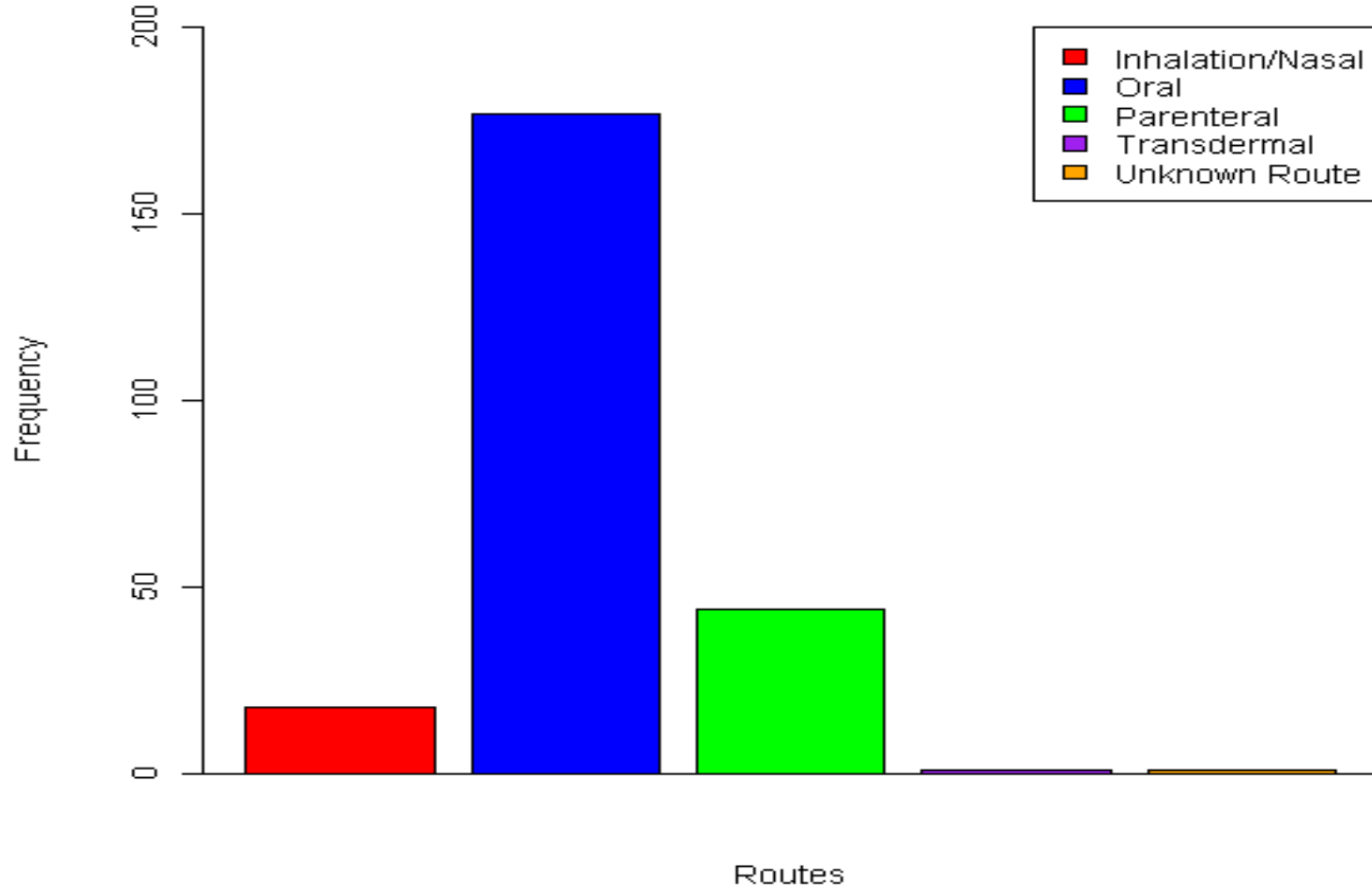


Germany GtNet—Adult Human Exposures to Opioids Reported to Poison Center

Germany Intentional Opioid Rate per 100,000 Population



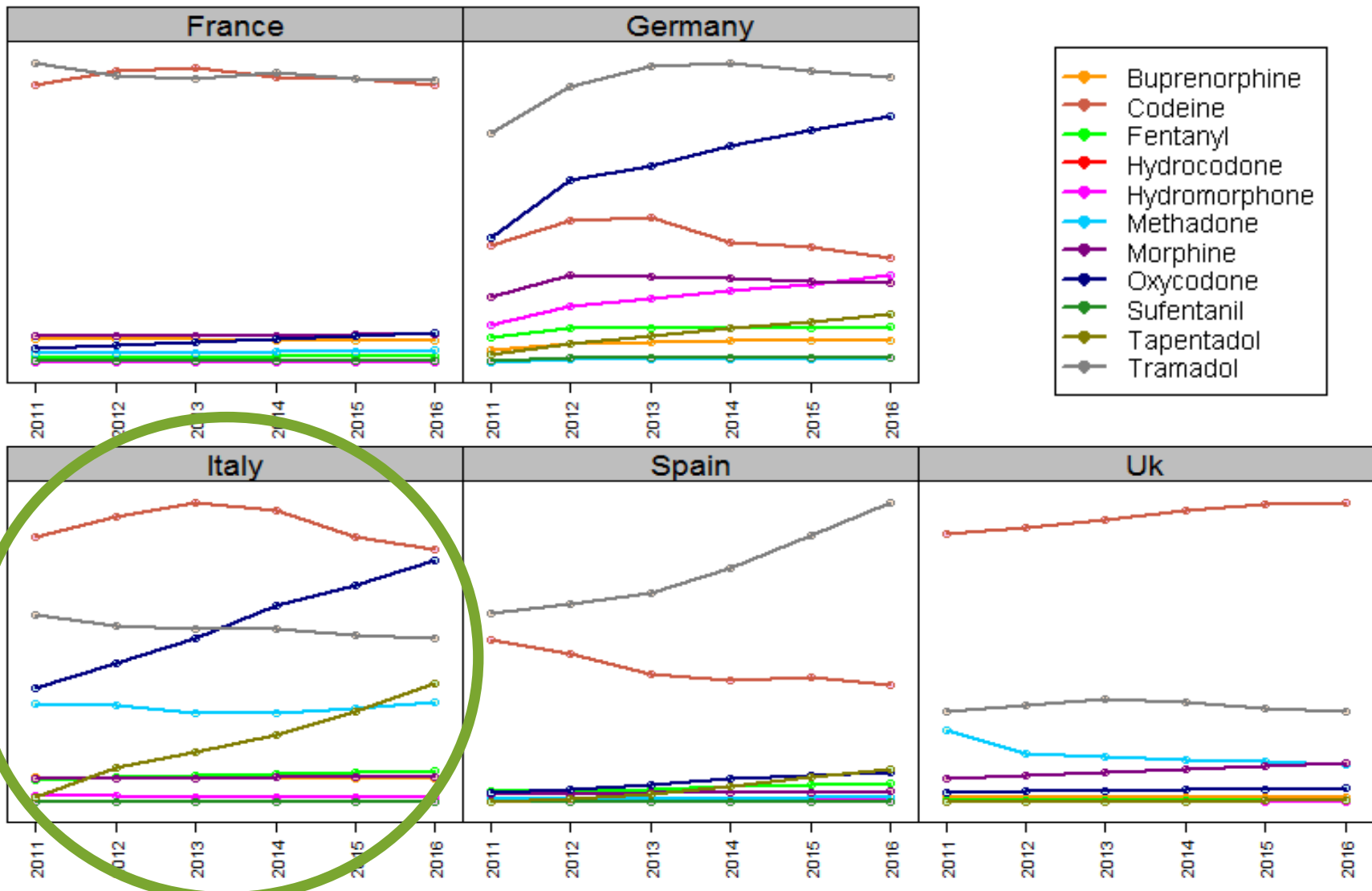
Germany GTNet–Adult Human Exposures to Opioids Reported to Poison Center



Germany Summary

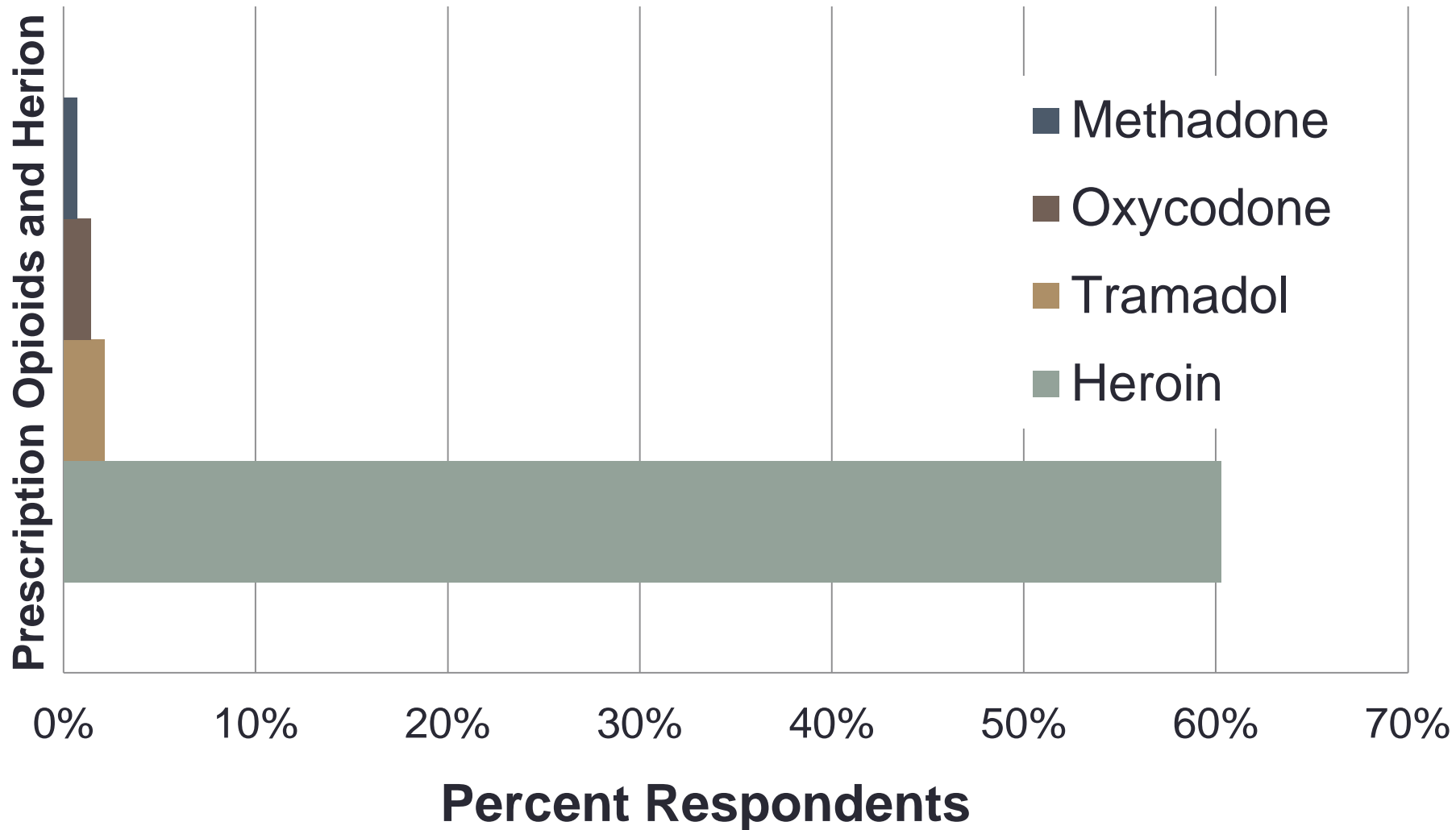
- Oxycodone and hydromorphone utilization increasing
- Patients entering substance abuse treatment most often report heroin, benzodiazepines as their primary drug of abuse
 - Smoking and injection reported by ~22-26%
- Intentional abuse of benzodiazepines reported 4-5x more often than opioids to poison centre

Europe – Dosage Units per Population



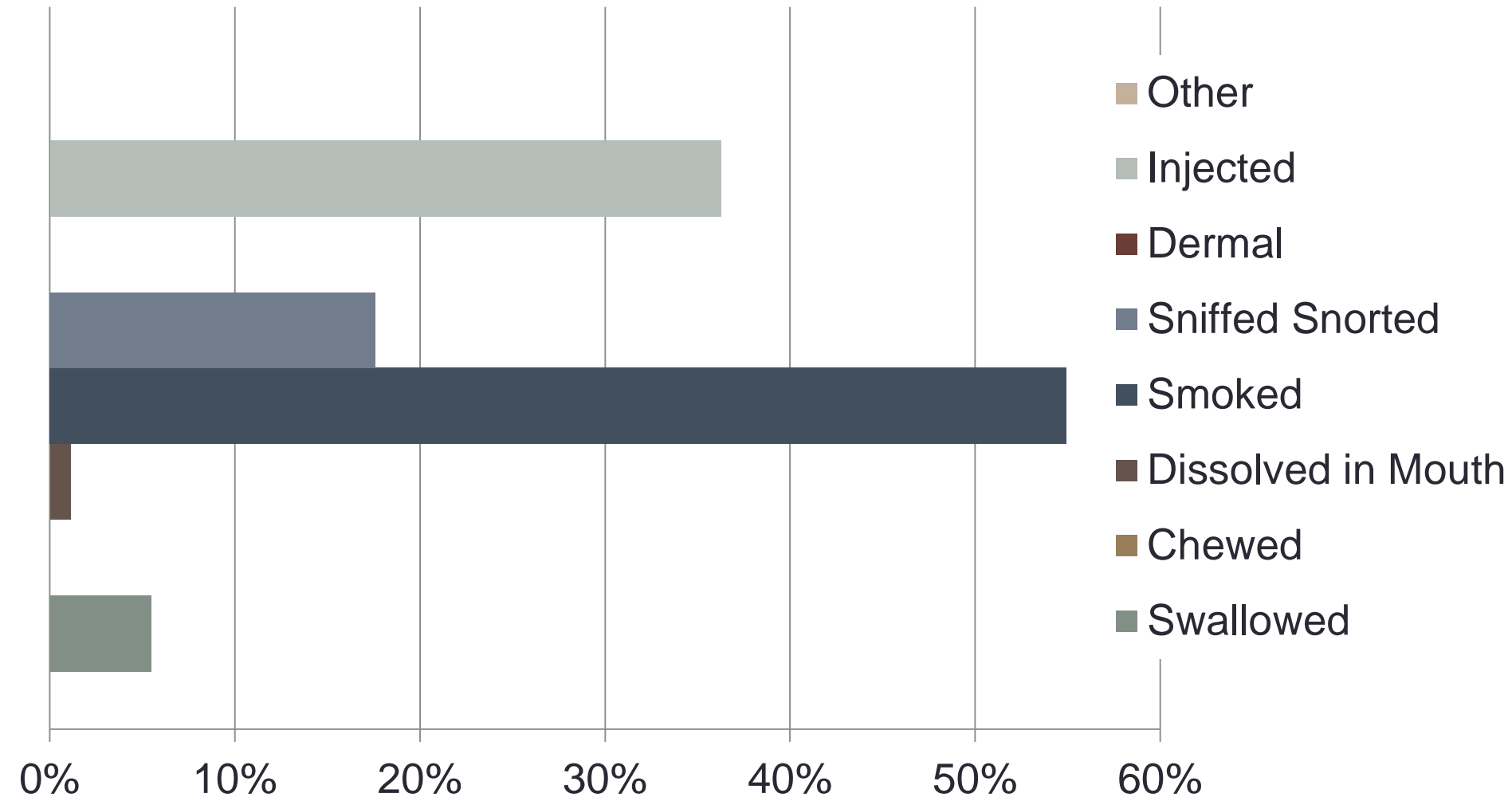
Italy- EUROPAD

Primary Drug Used to Get High in Past Month



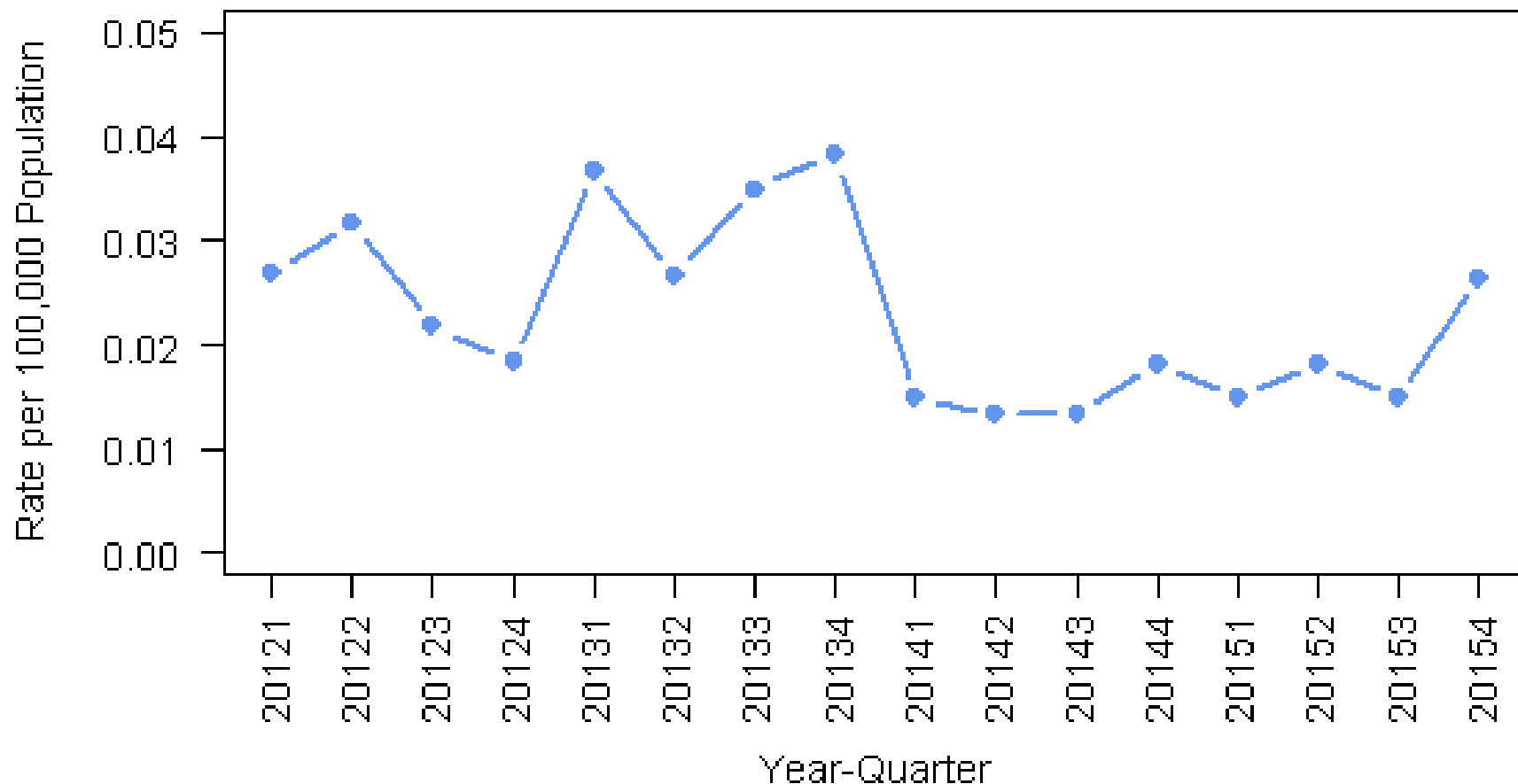
Italy- EUROPAD

Route of Primary Drug

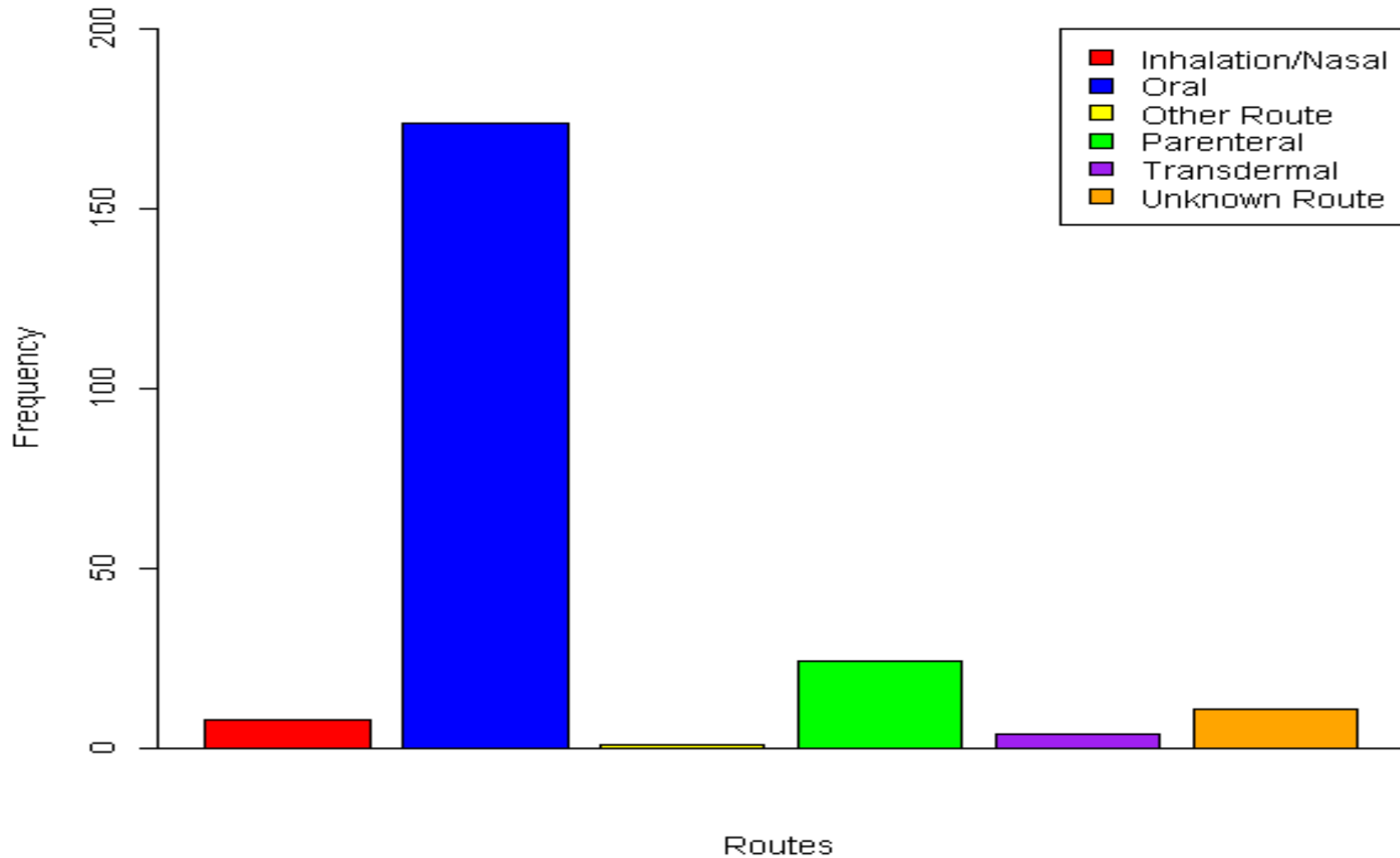


Italy GTNet—Adult Human Exposures to Opioids Reported to Poison Center

Italy Intentional Opioid Rate per 100,000 Population



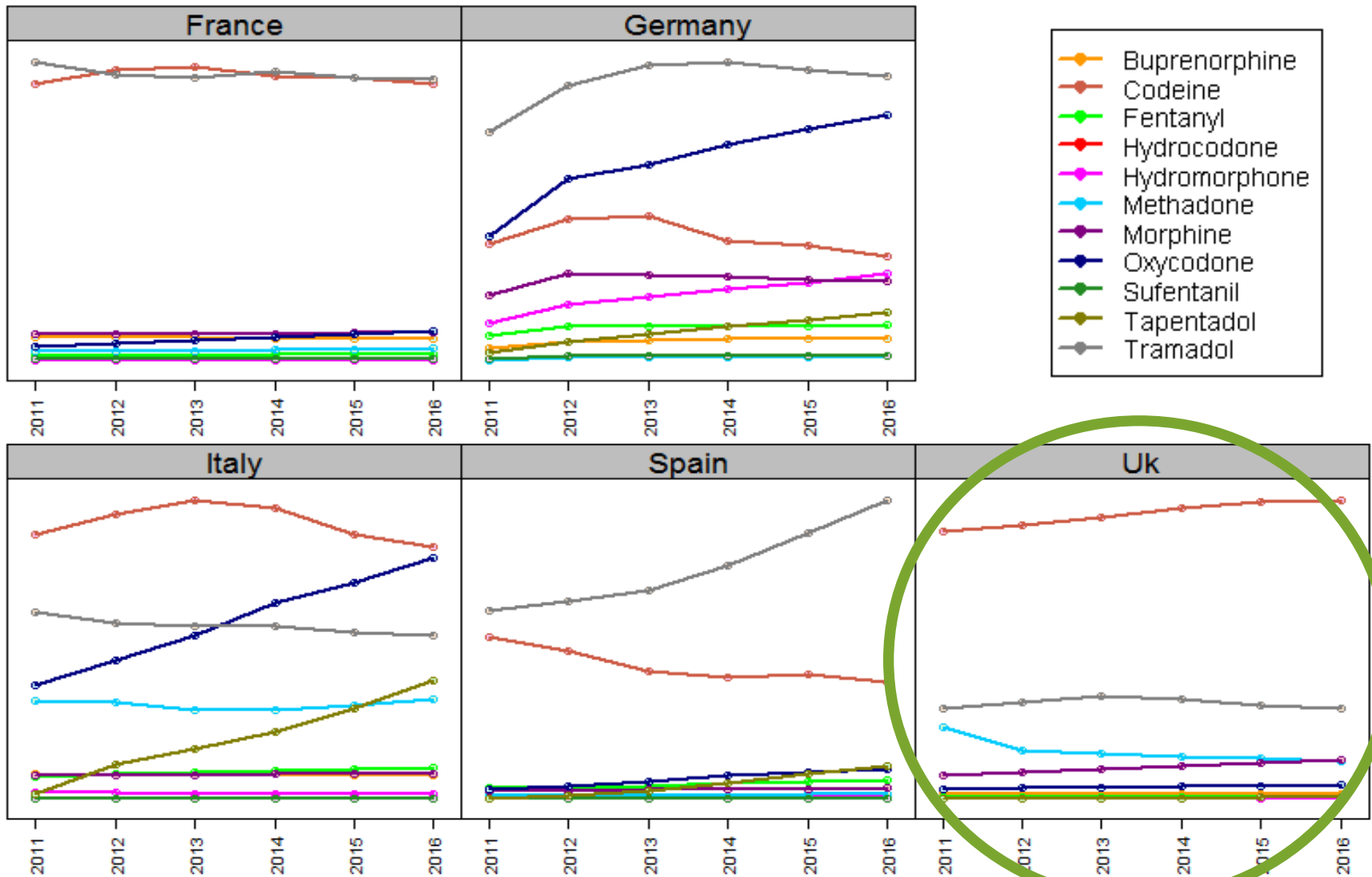
Italy GTNet–Adult Human Exposures to Opioids Reported to Poison Center



Italy Summary

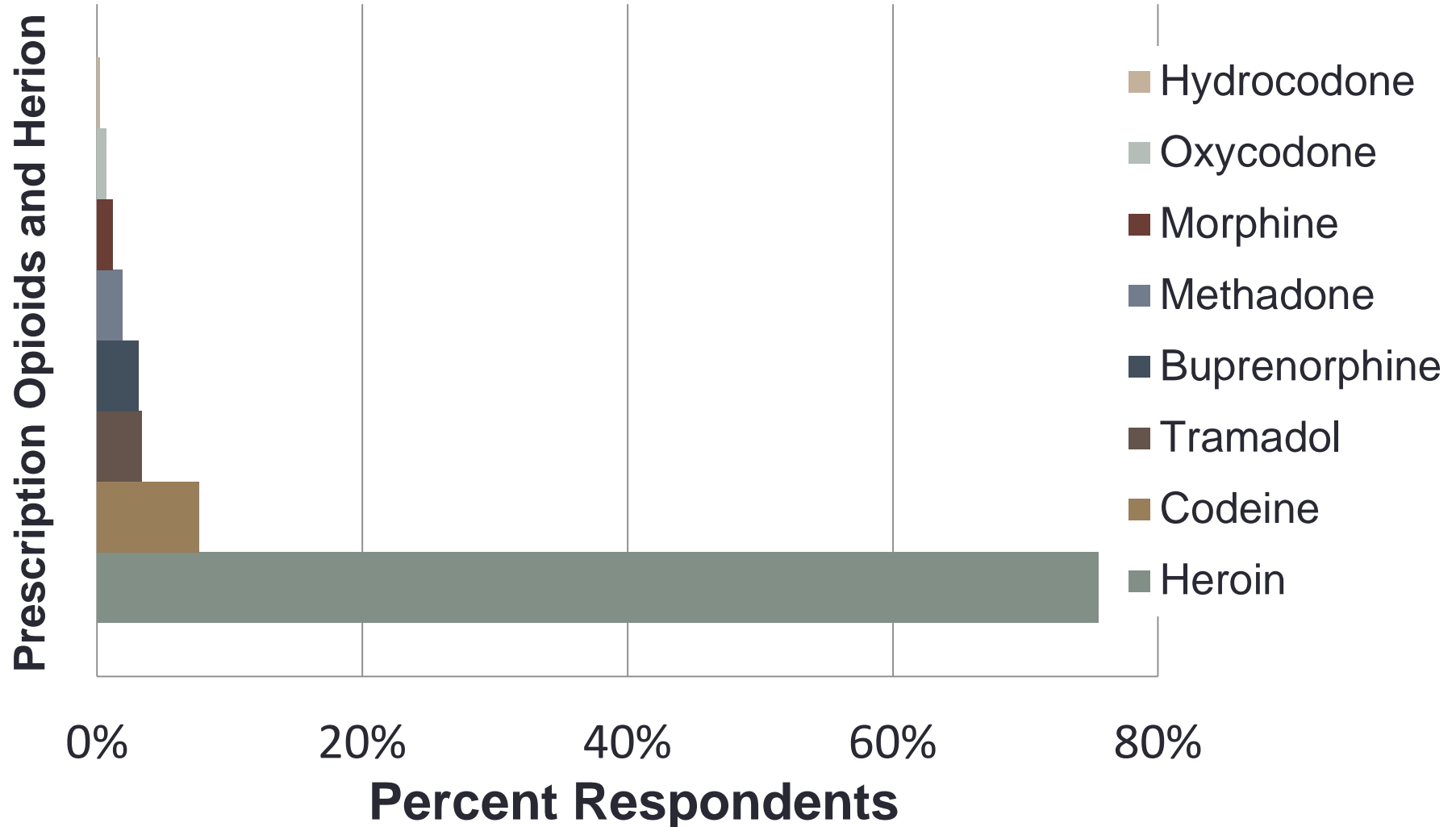
- Codeine most commonly utilized opioid, oxycodone utilization increasing
- Patients entering substance abuse treatment most often report heroin and THC (not Rx) as their primary drug of abuse
 - Smoking reported most often (49%)
 - Injection reported by ~27%
- Exposures to benzodiazepines reported 7-8x more often than opioids to poison centre

Europe – Dosage Units per Population



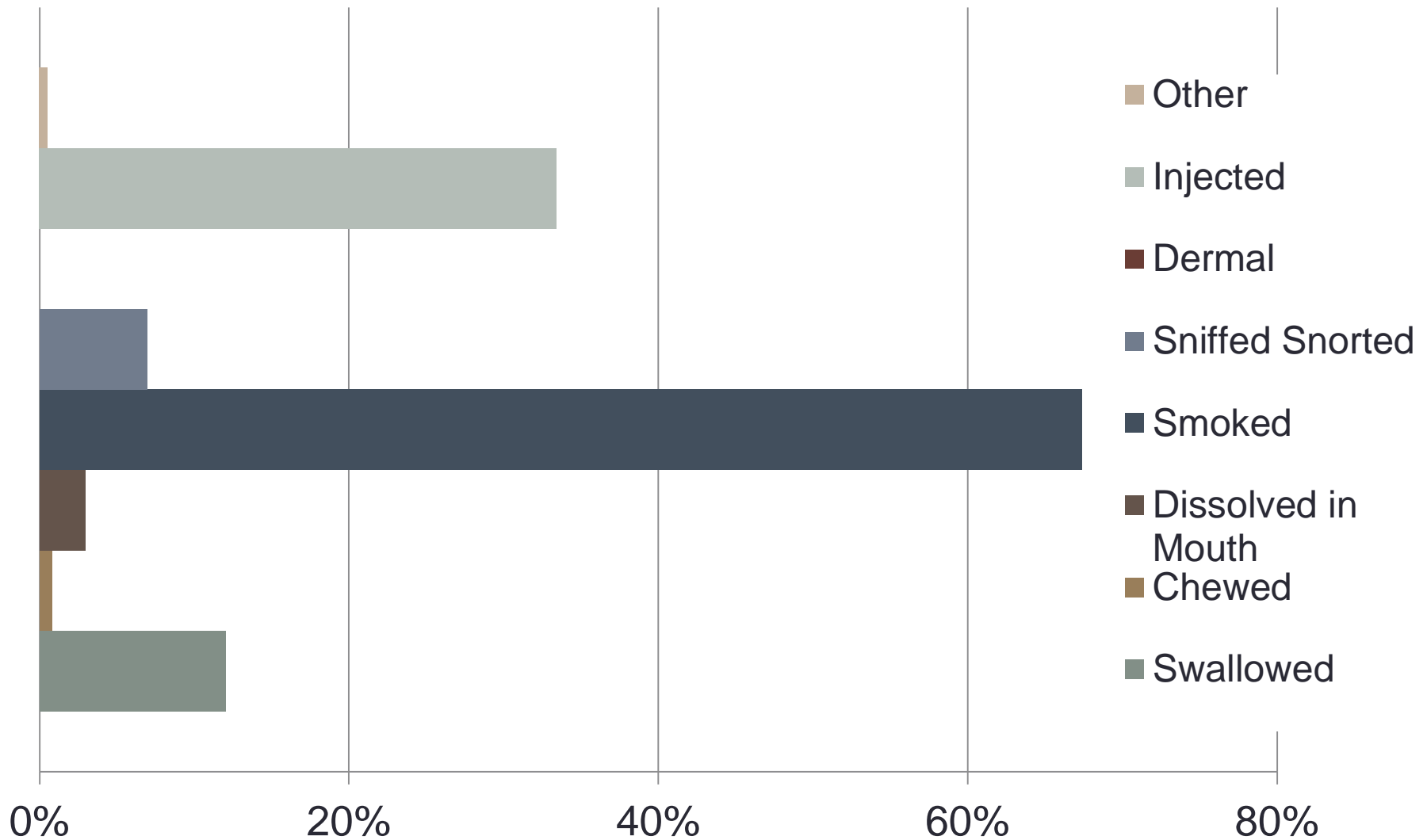
United Kingdom - EUROPAD

Primary Drug Used to Get High in Past Month



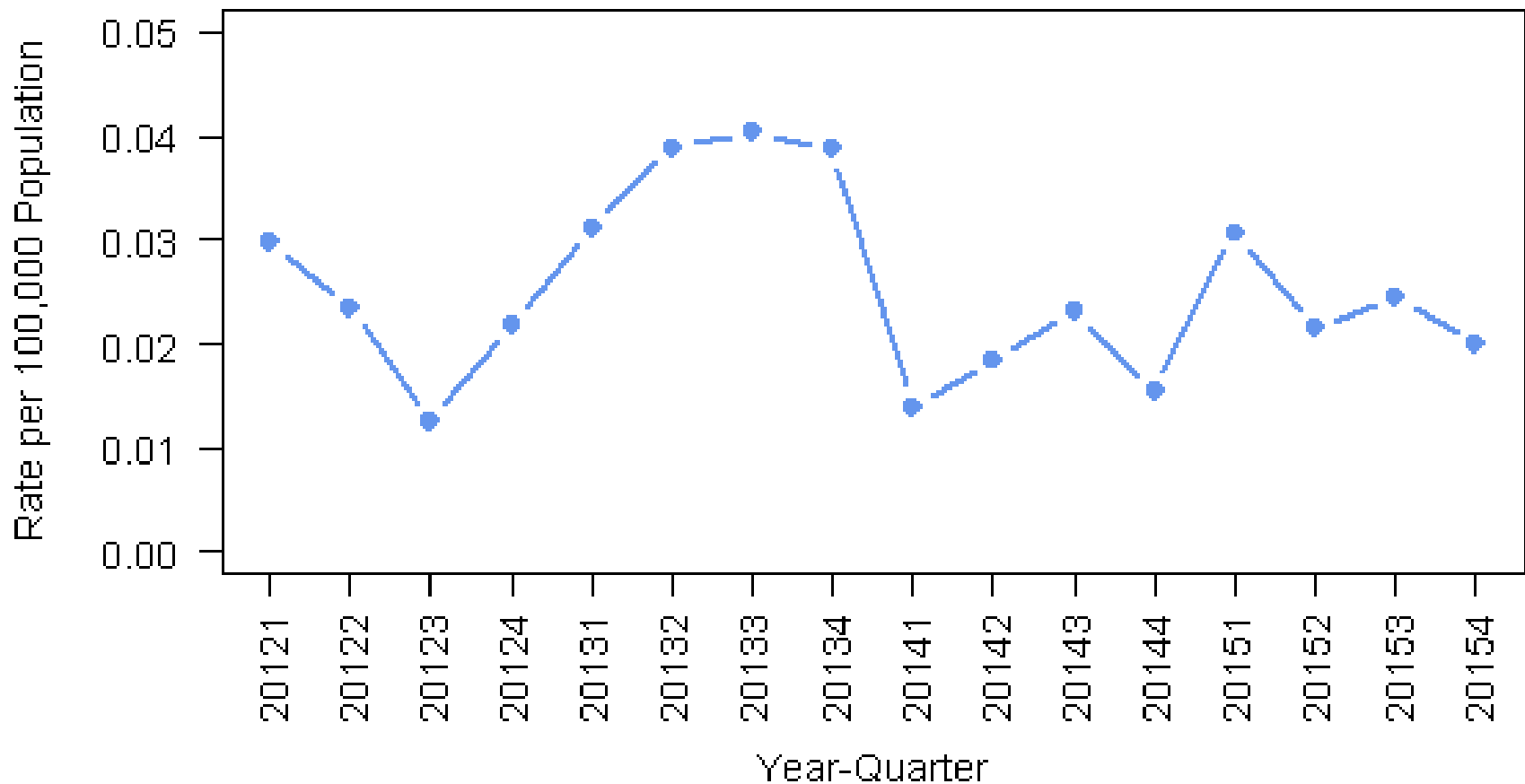
United Kingdom - EUROPAD

Route of Primary Drug

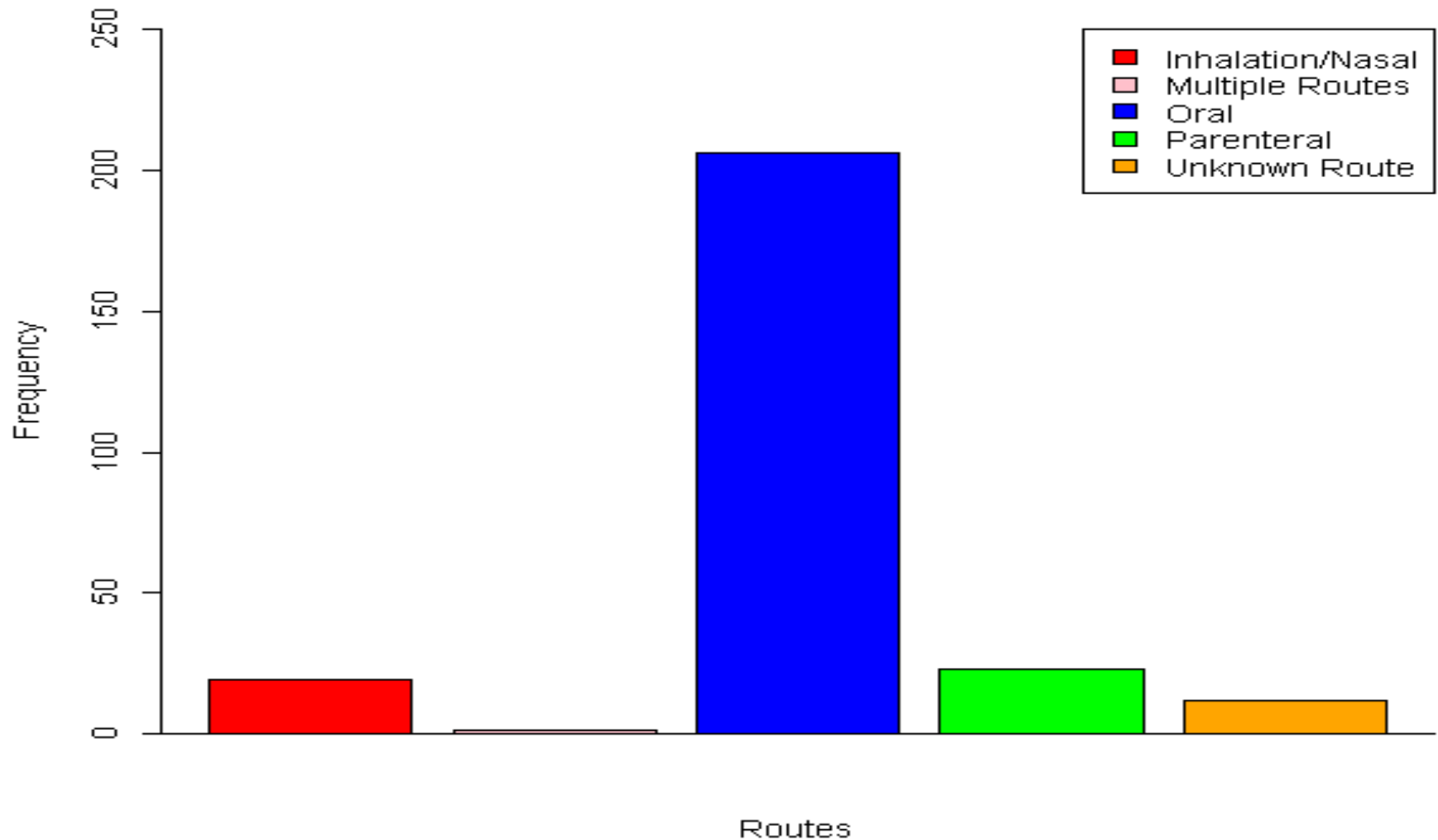


UK GTNet—Adult Human Exposures to Opioids Reported to Poison Center

UK Intentional Opioid Rate per 100,000 Population



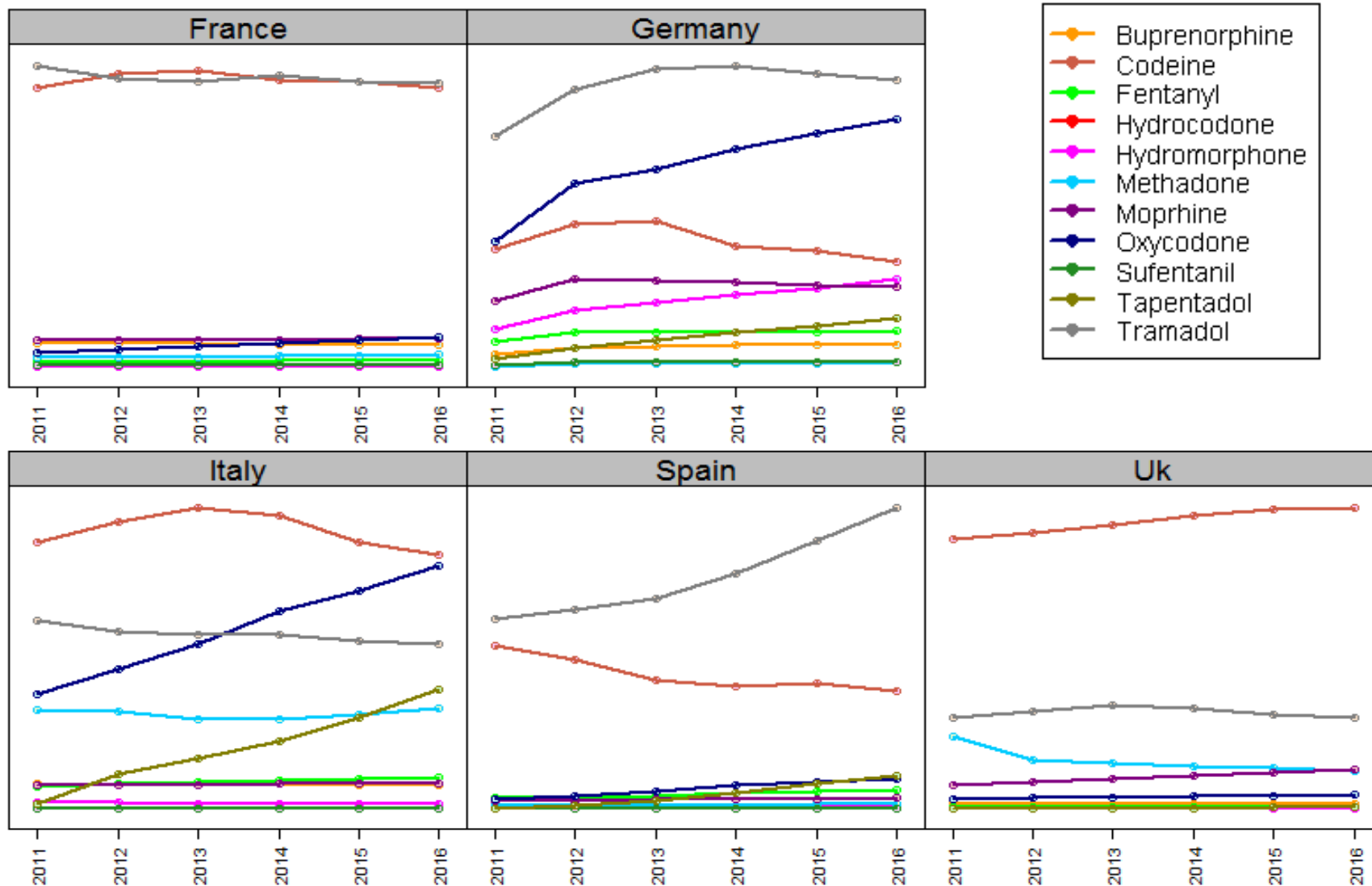
UK GTNet—Adult Human Exposures to Opioids Reported to Poison Center



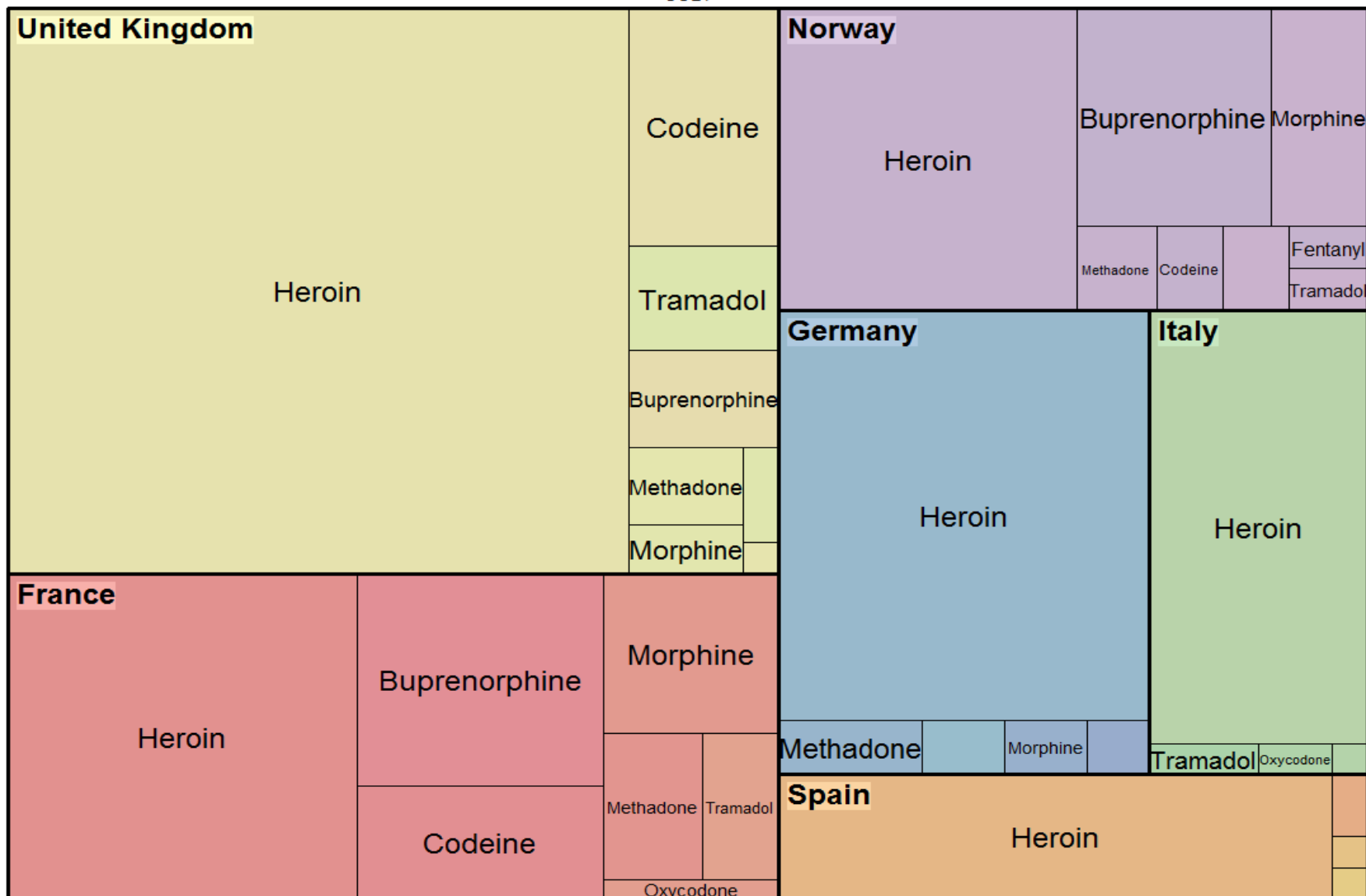
United Kingdom Summary

- Codeine most commonly utilized opioid, morphine utilization increasing
- Patients entering substance abuse treatment most often report heroin and codeine as their primary drug of abuse
 - Smoking reported most often (46%)
- Exposures to benzodiazepines and opioids similar as reported to poison centre

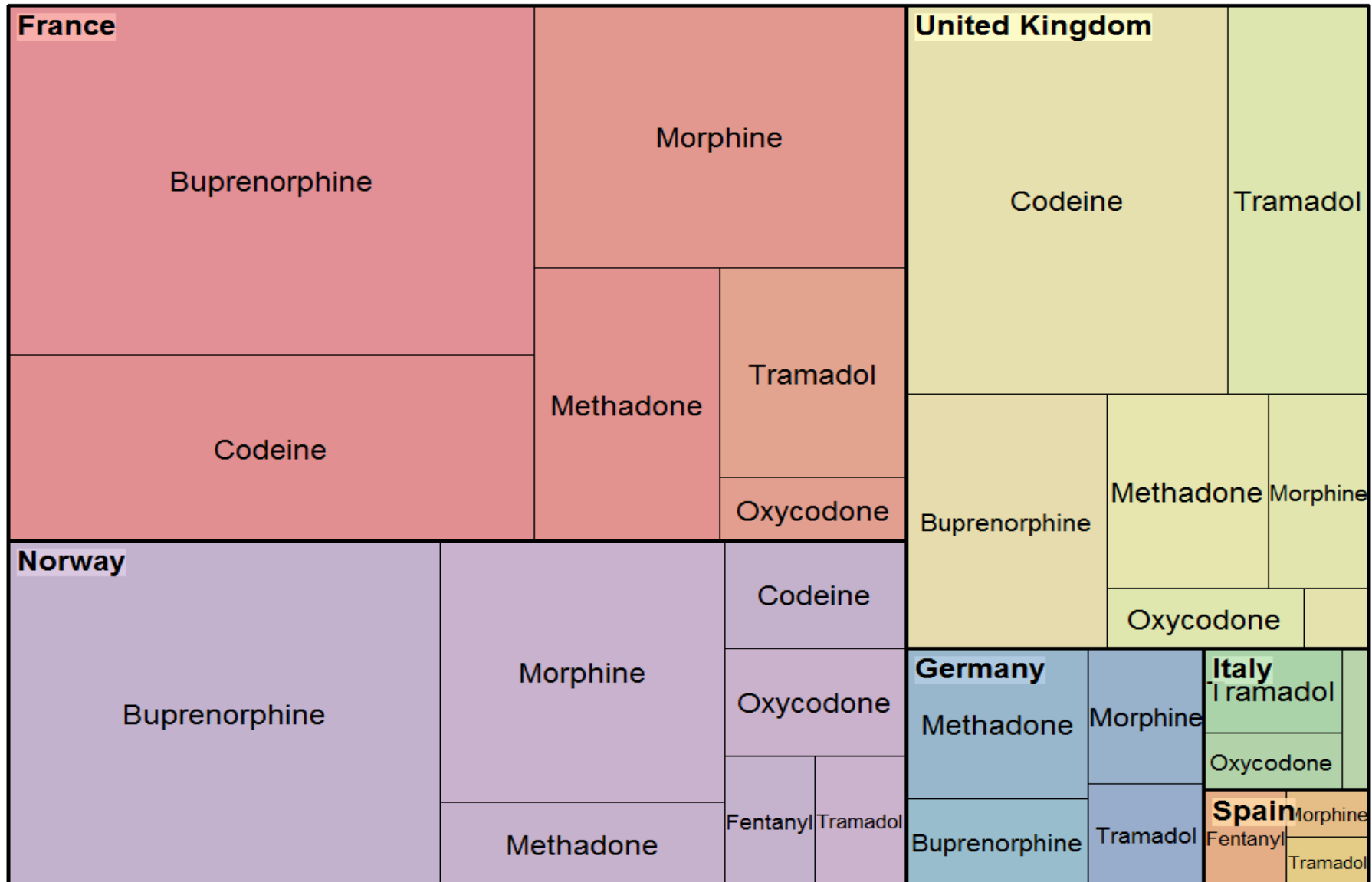
Europe – Dosage Units per Population



EUROPAD – Primary Drug Used to Get High

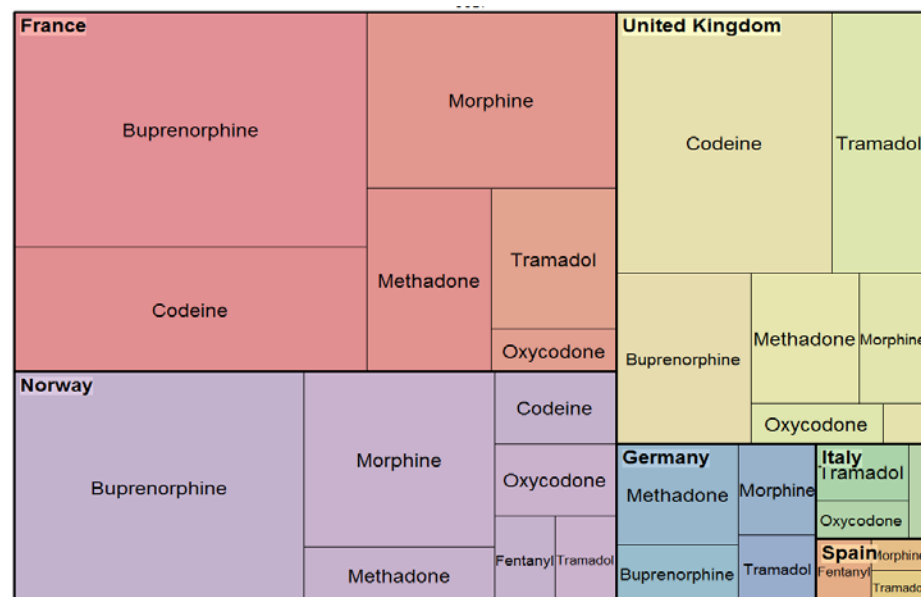
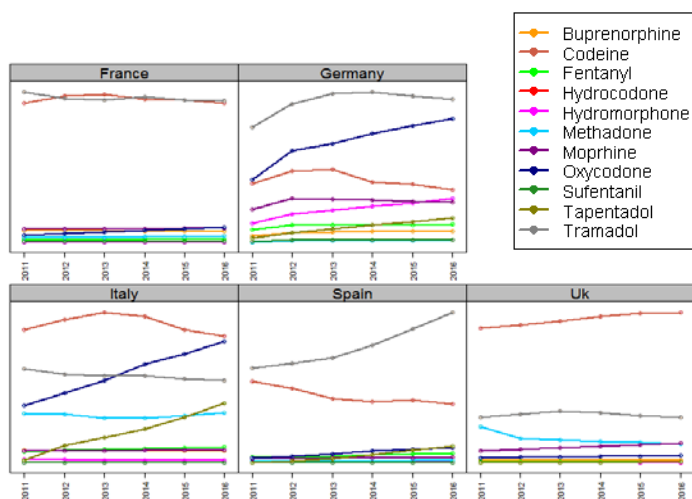


EUROPAD – Primary Prescription Drug Used to Get High



Assembling the Mosaic

- UK and France endorsements match dispensing
- Fentanyl and morphine in Spain were endorsed more frequently than expected by dispensing
- While oxycodone use is increasing in Germany, endorsements were low, but methadone was endorsed more than expected
- In Italy, the increase in oxycodone dispensing is reflected in treatment centre endorsements



Conclusion

- A mosaic approach to surveillance provides valuable insight from multi-dimensional perspectives
- Each of the programs presented target different facets of prescription opioid abuse, misuse, and diversion
- While magnitude and patterns vary, heroin, THC, prescription opioids and benzodiazepines commonly abused/misused in many countries

THANK YOU!

Questions?

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