



Special Register in Germany:
Overdose including prescription opioids and
new developments in the reporting system

Dr. A. Heinemann
Institute of Legal Medicine
University Medical Center Hamburg-
Eppendorf , Germany

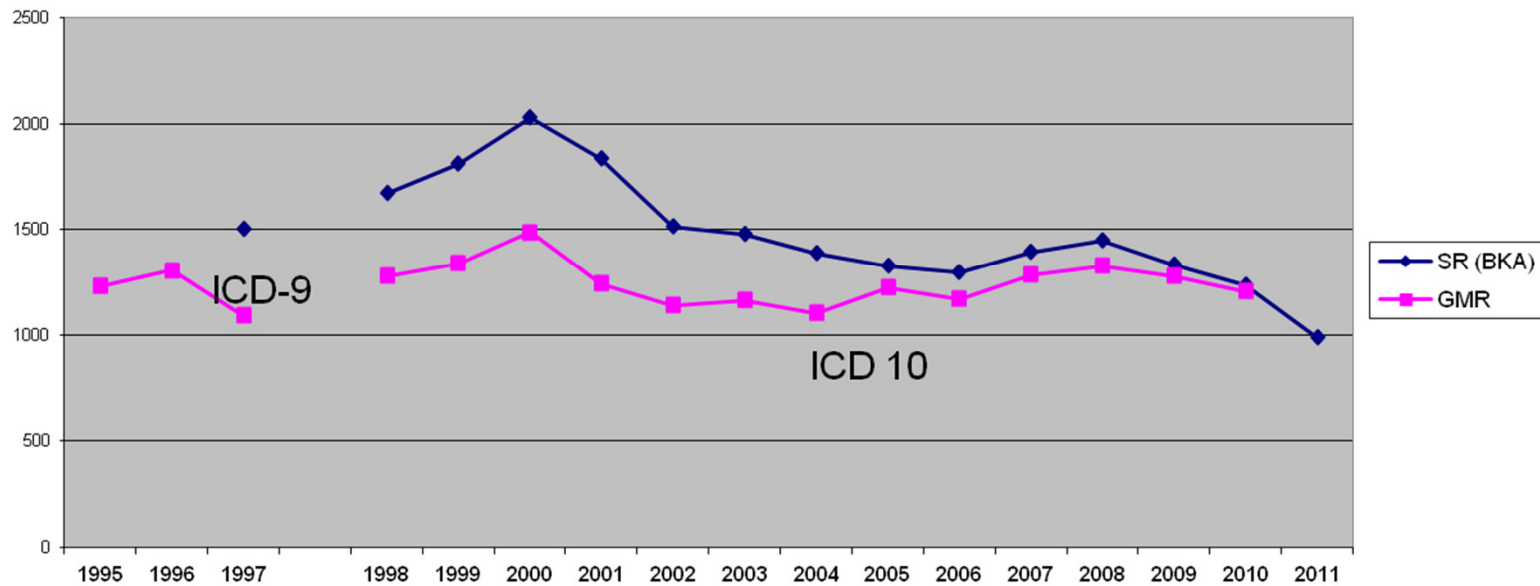


German SR

- German SR in charge of Federal Criminal Police Office (Bundeskriminalamt)
- 16 regional Land Offices of Criminal Investigation report to SR (aggregated data)

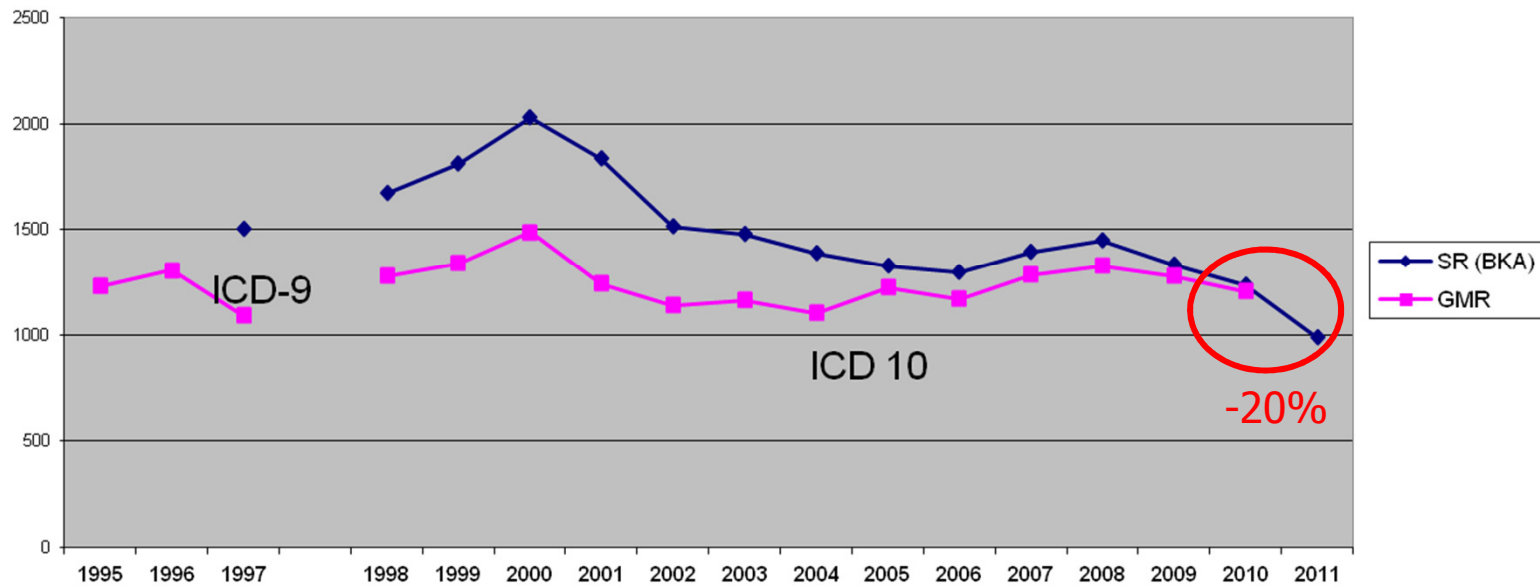
DRD longterm series: Germany GMR (Destatis)/ SMR (BKA):

DRD according to SR and GMR, Germany 1995-2011

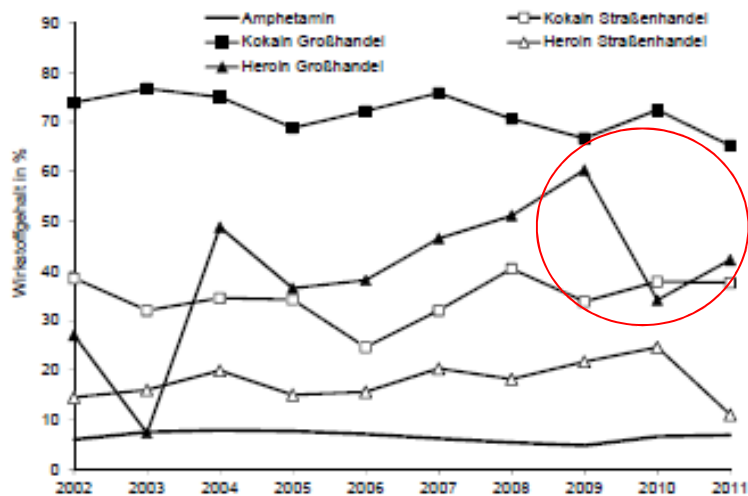


DRD longterm series: Germany GMR (Destatis)/ SMR (BKA):

DRD according to SR and GMR, Germany 1995-2011



Opiate purity and availability



Bundeskriminalamt, KT 34.

Abbildung 10.2 Wirkstoffgehalte von Heroin, Kokain und Amphetamin

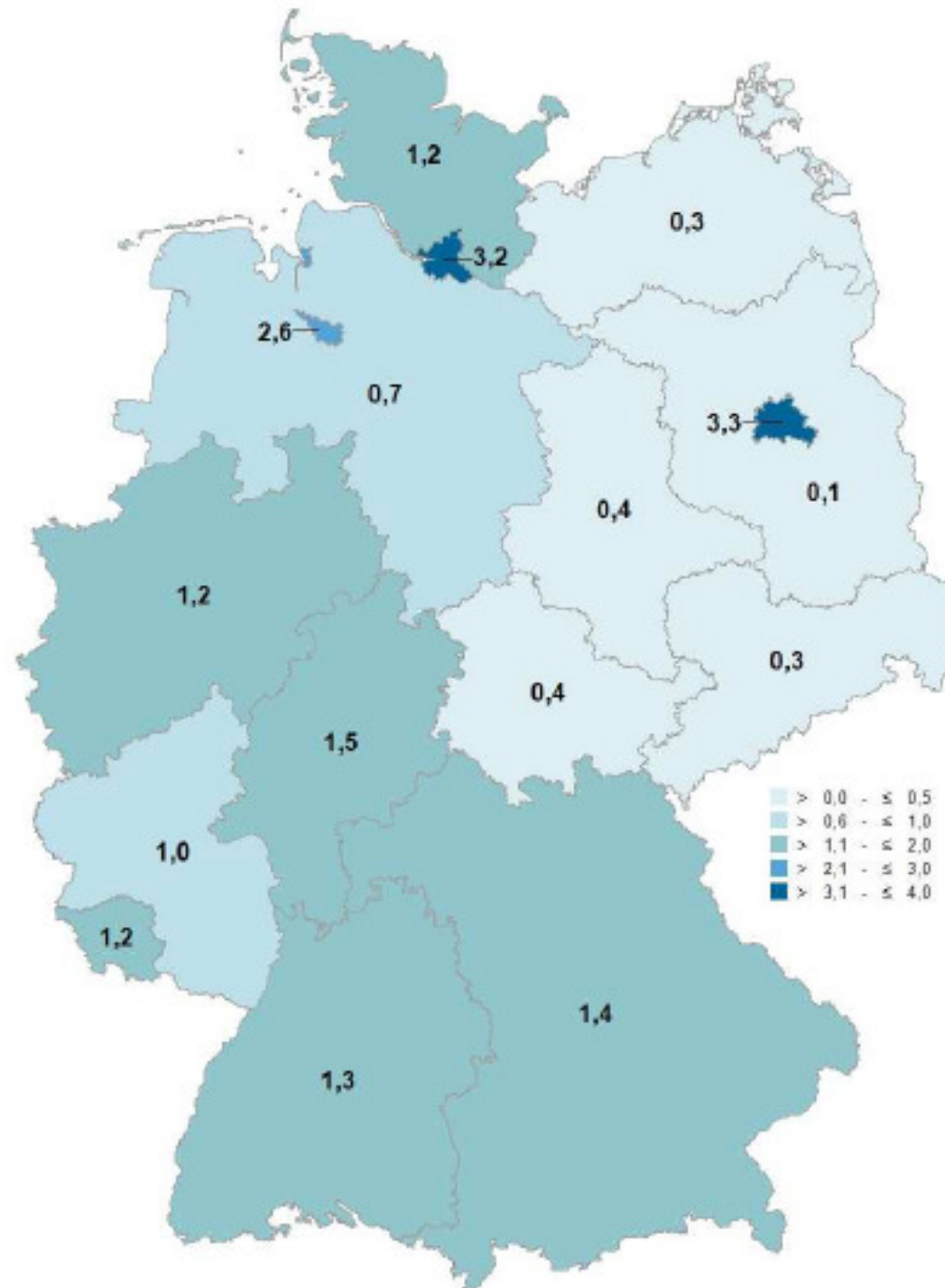
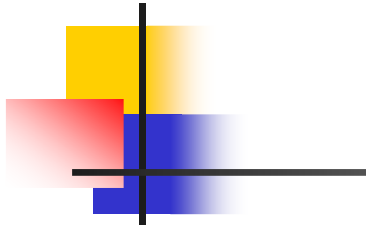
Tabelle 10.5 Veränderungen in Zahl und Menge der Sicherstellungen

	2011 vs.	Heroin	Kokain	Amphetamine*	Ecstasy	Cannabis	Pilze	Khat
Fälle	2010	-23 %	-0,4 %	+22 %	+9 %	+7 %	+8 %	+46 %
Menge	2010	+5 %	-36 %	+17 %	+111 %	-19 %	-17 %	+51 %
Fälle	2000	-46 %	-31 %	+202 %	-72 %	+13 %		
Menge	2000	-38 %	+113 %	+419 %	-70 %	-60 %		

Hinweis: Zuwächse >10 % sind durch Rahmen, Rückgänge >10 % durch Schattierung gekennzeichnet.

* Unter der Kategorie Amphetamine ist auch „Crystal“ subsumiert.

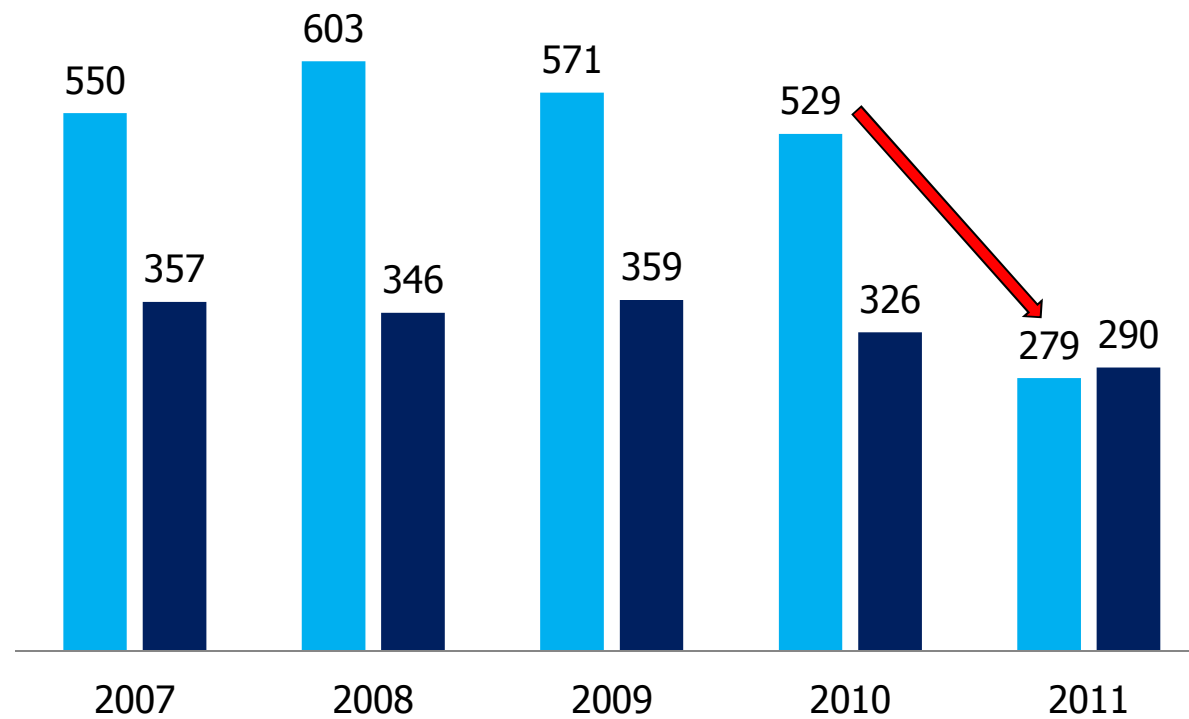
BKA 2012a.



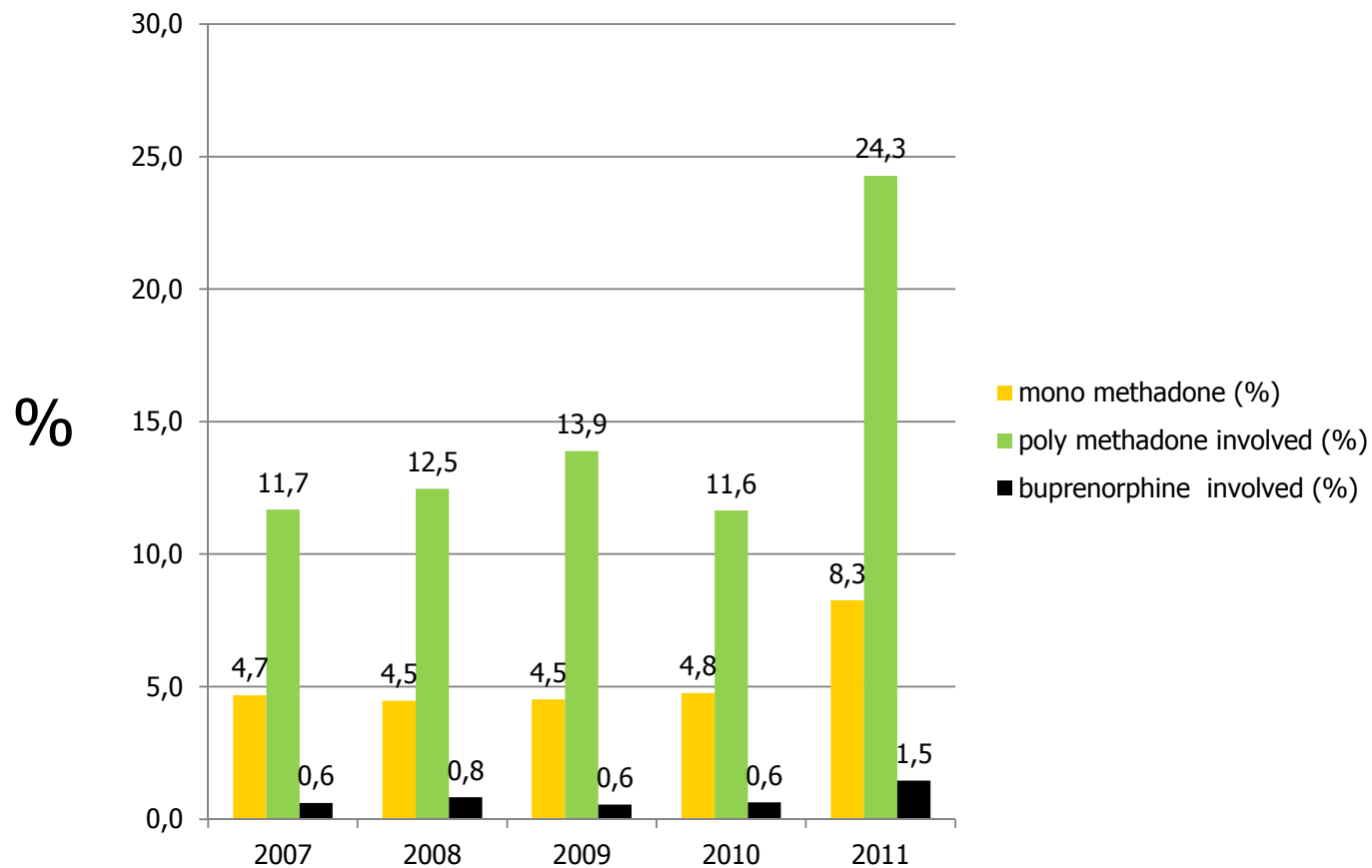
German Bundesländer:
Drug- related deaths per 100.000 inhabitants (2011)

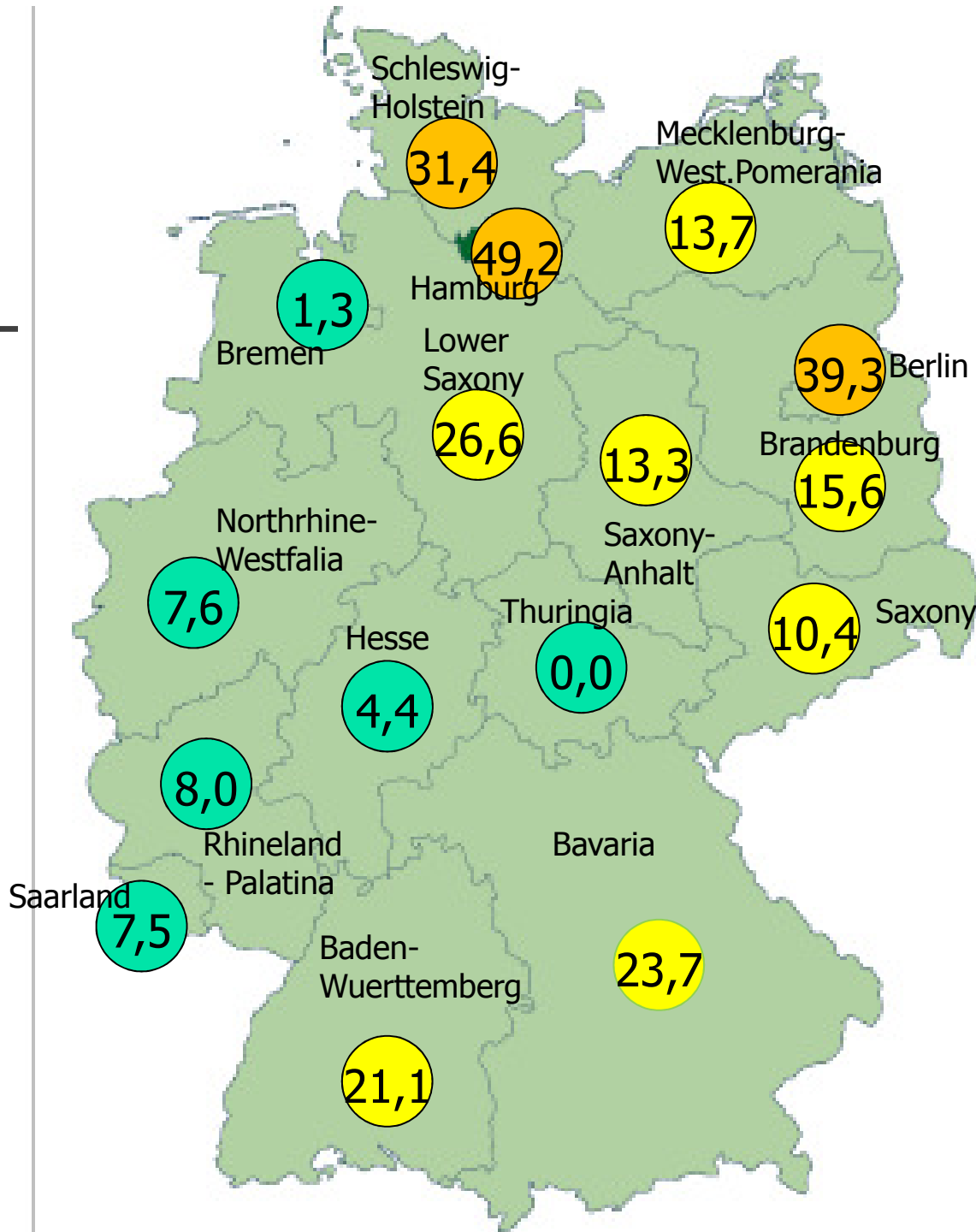
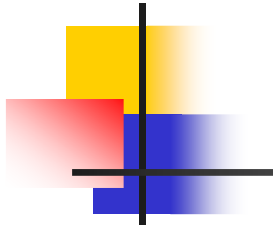
Germany (SMR): DRD, detection of opiates in monodrug/polydrug overdoses (%)

■ monovalent heroin/morphine ■ polydrug heroine/morphine

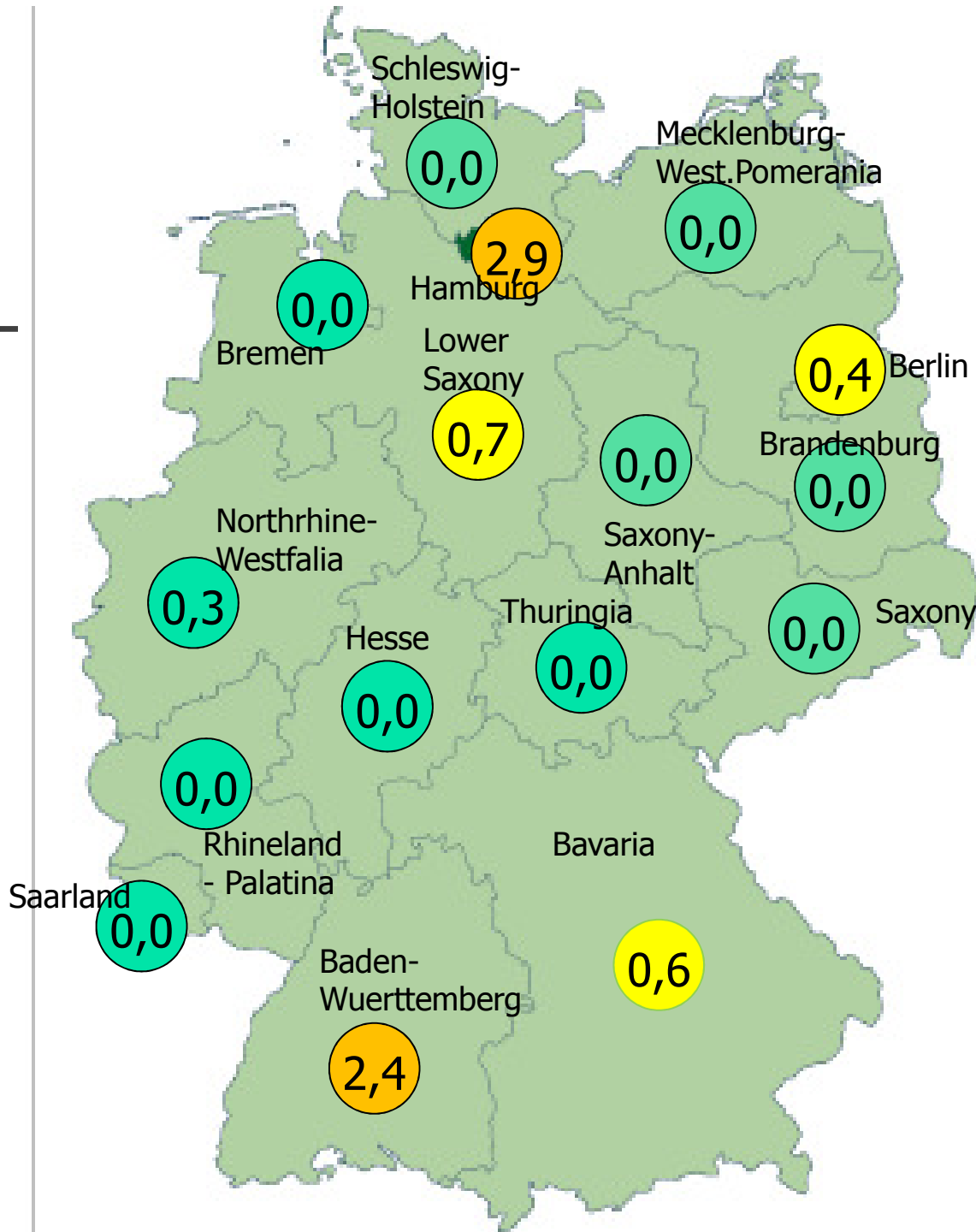
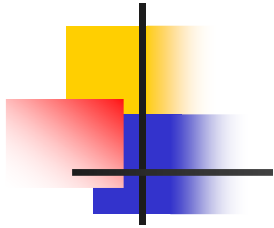


Germany (SMR): DRD/Overdose, detection of prescription opiates (%)



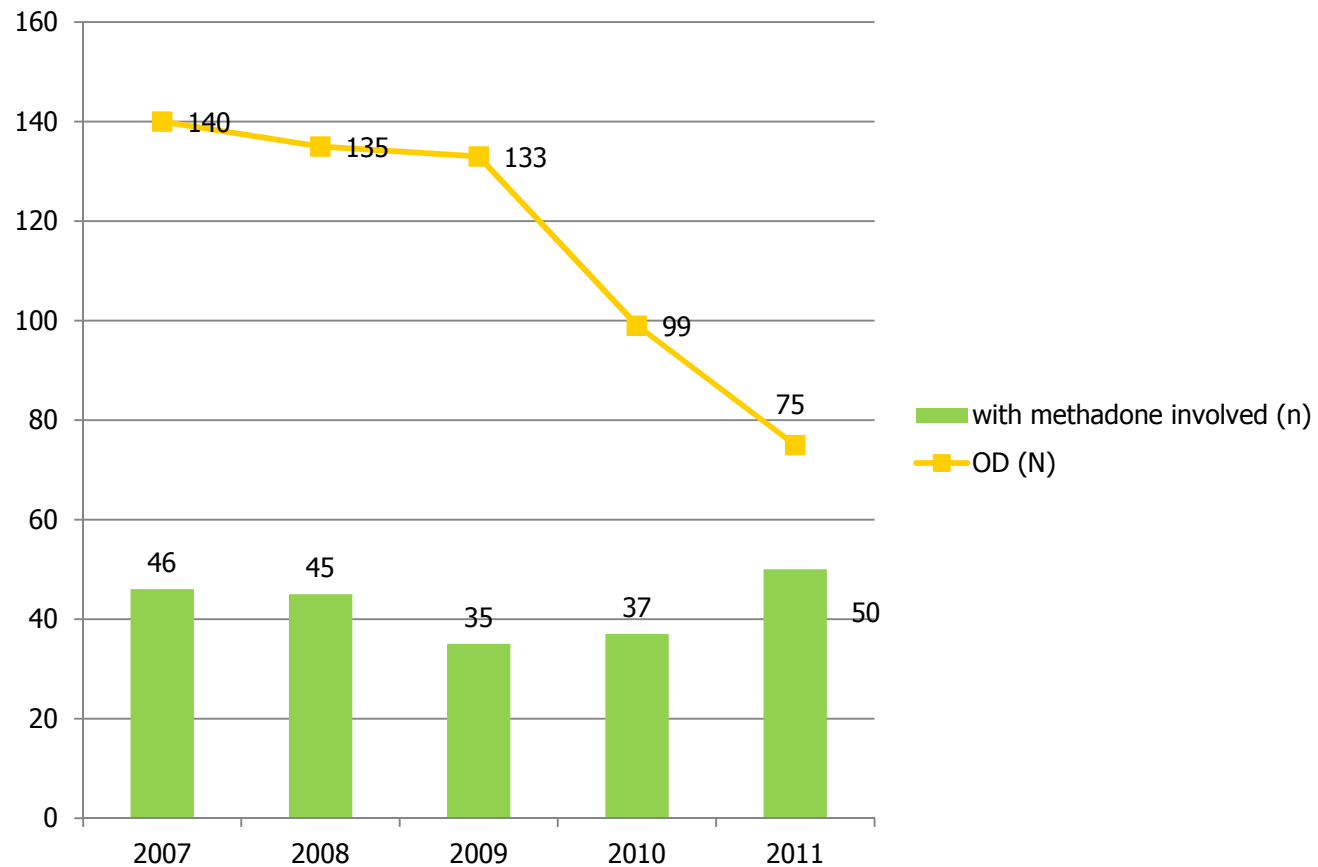


Methadone
involved in
OD (%)
(mean 2007-2011)



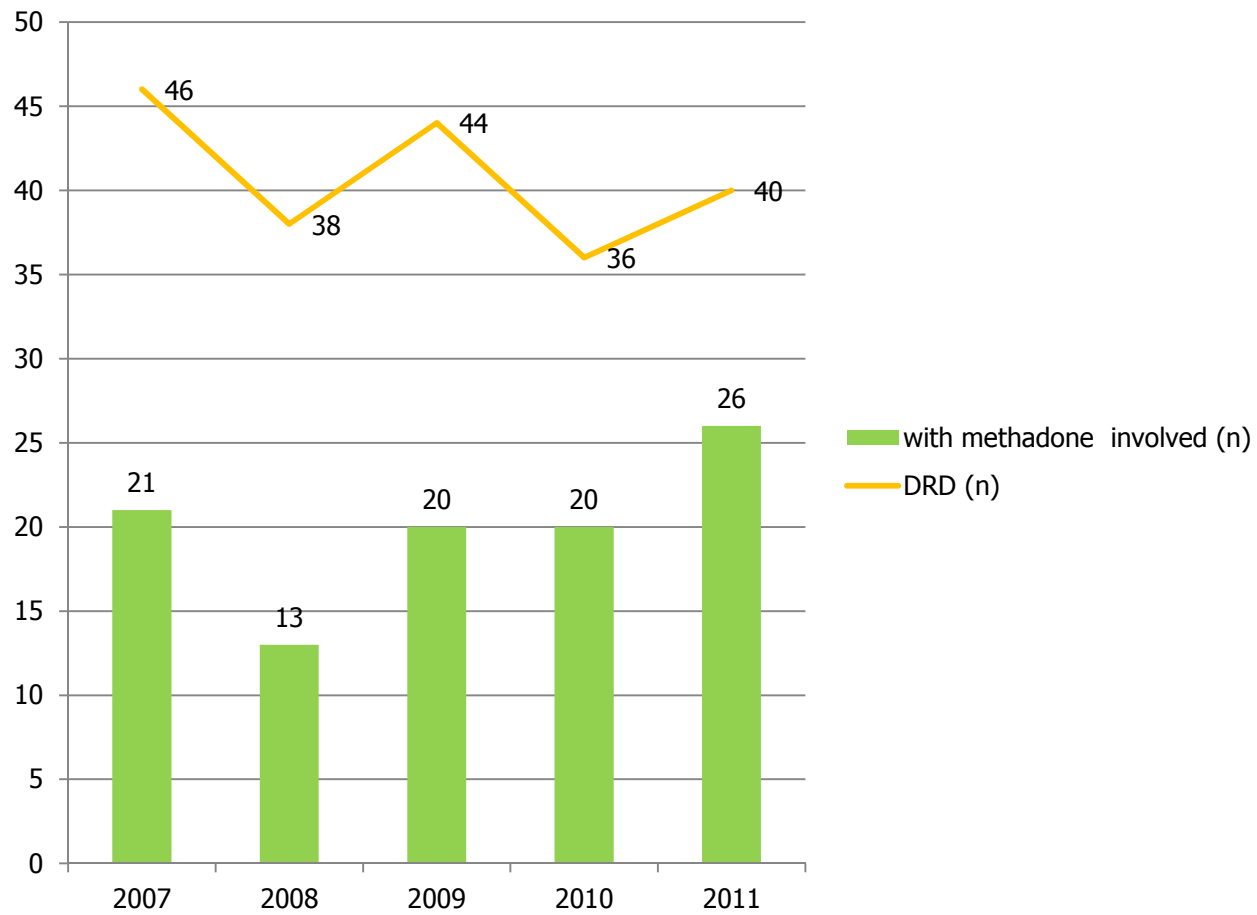
Buprenorphine involved in OD (%)
(mean 2007-2011)

Berlin: Methadone detection rate at OD

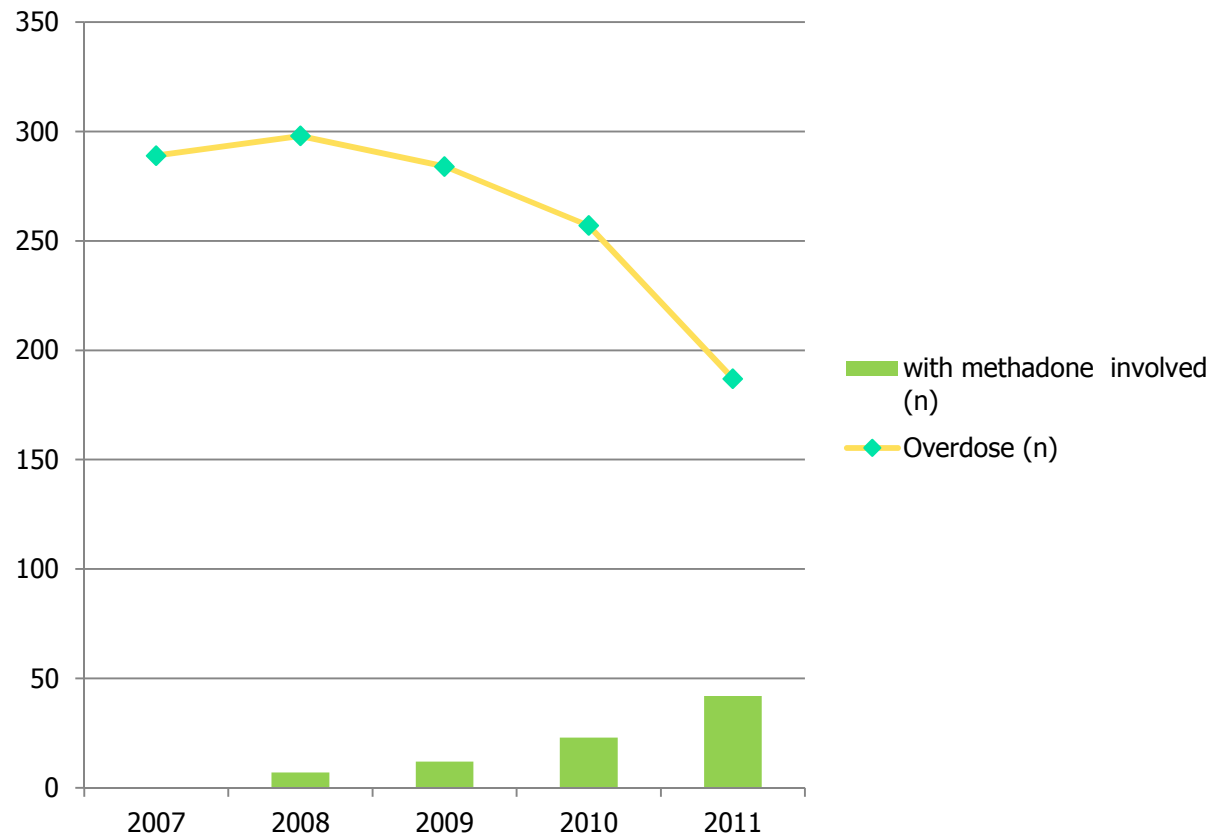




Hamburg



Northrhine- Westfalia

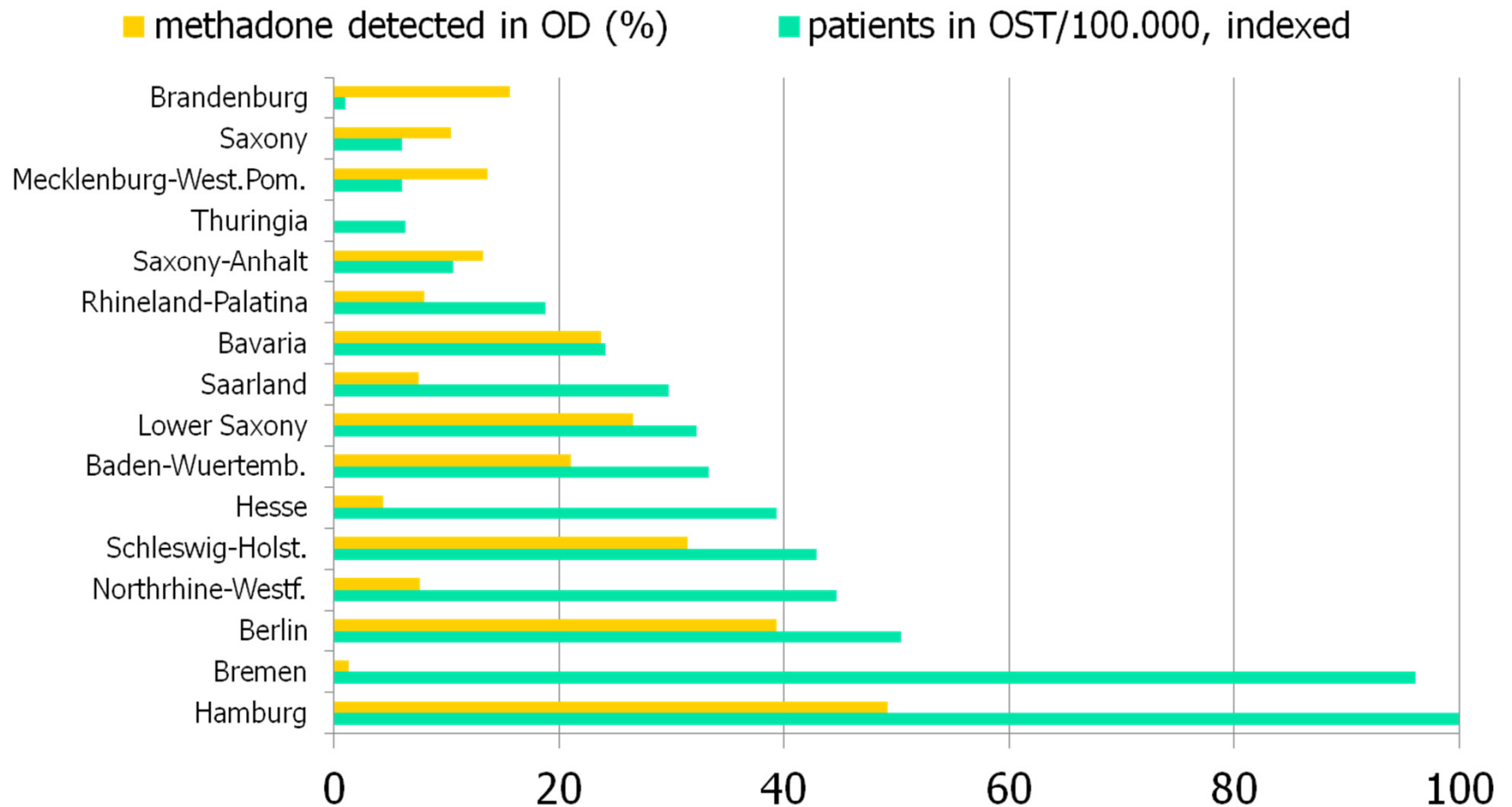




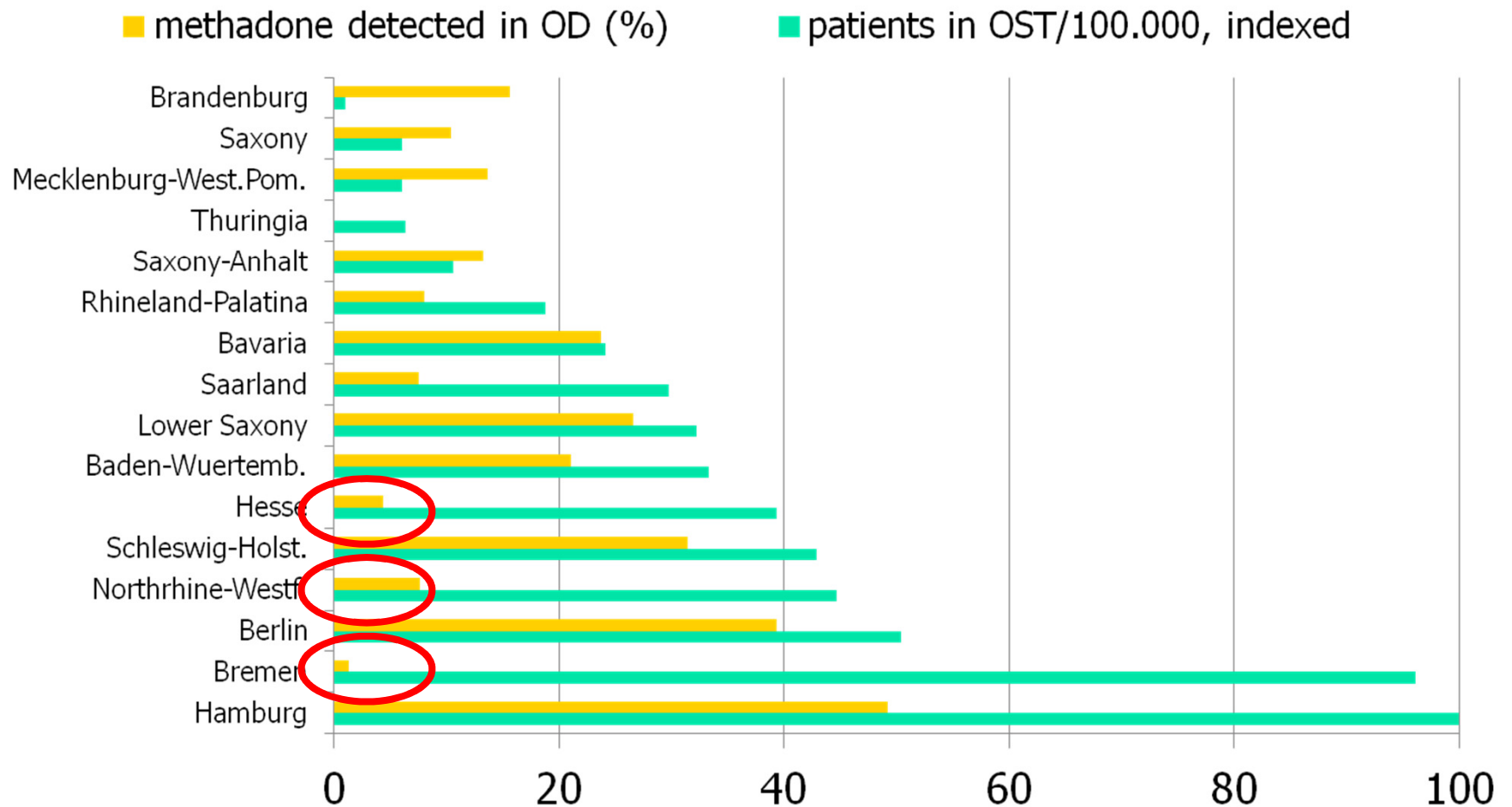
Bavaria



Regional analysis across German Bundesländer: OST and methadone detection rate at OD



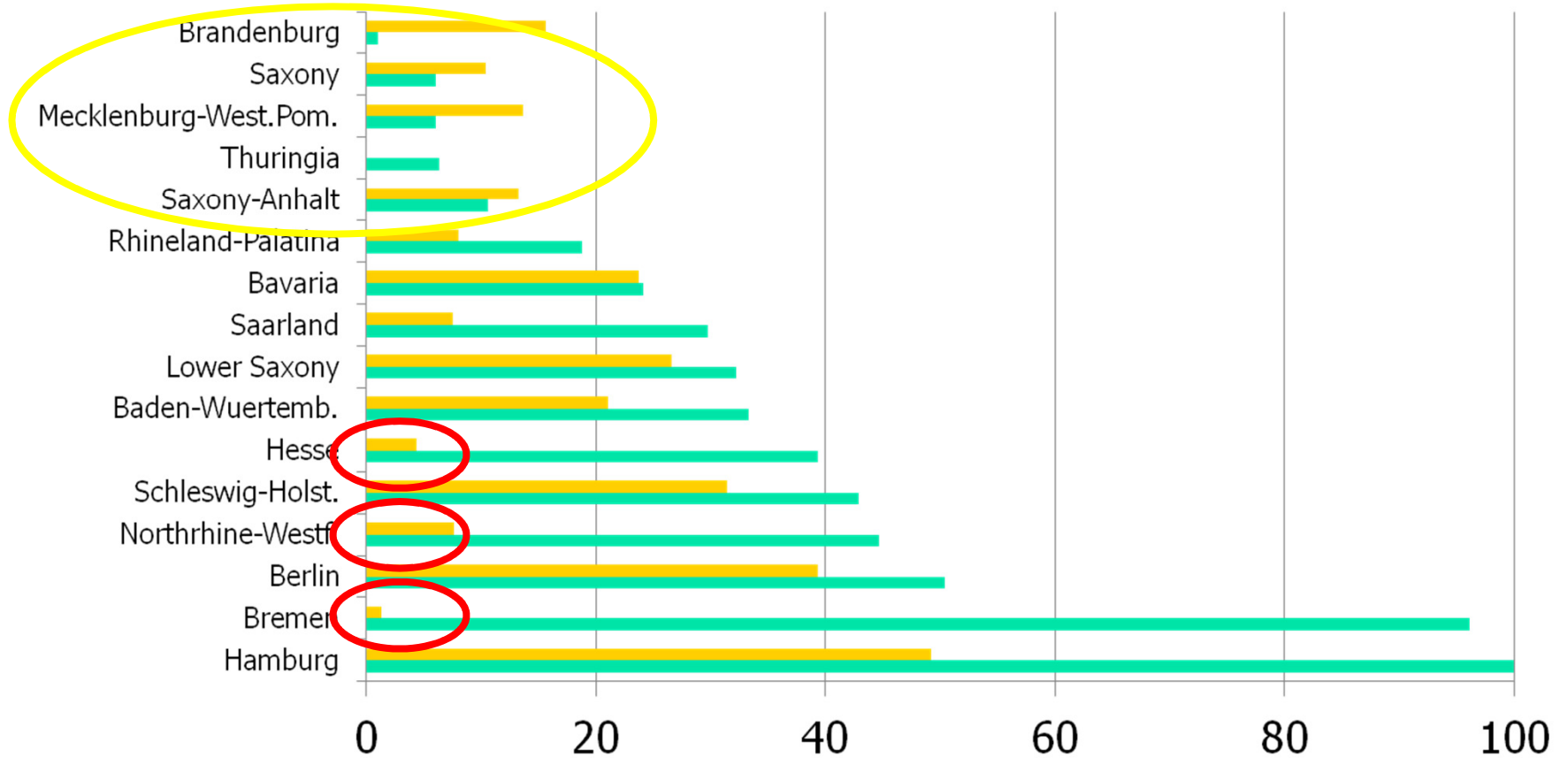
Regional analysis across German Bundesländer: OST and methadone detection rate at OD

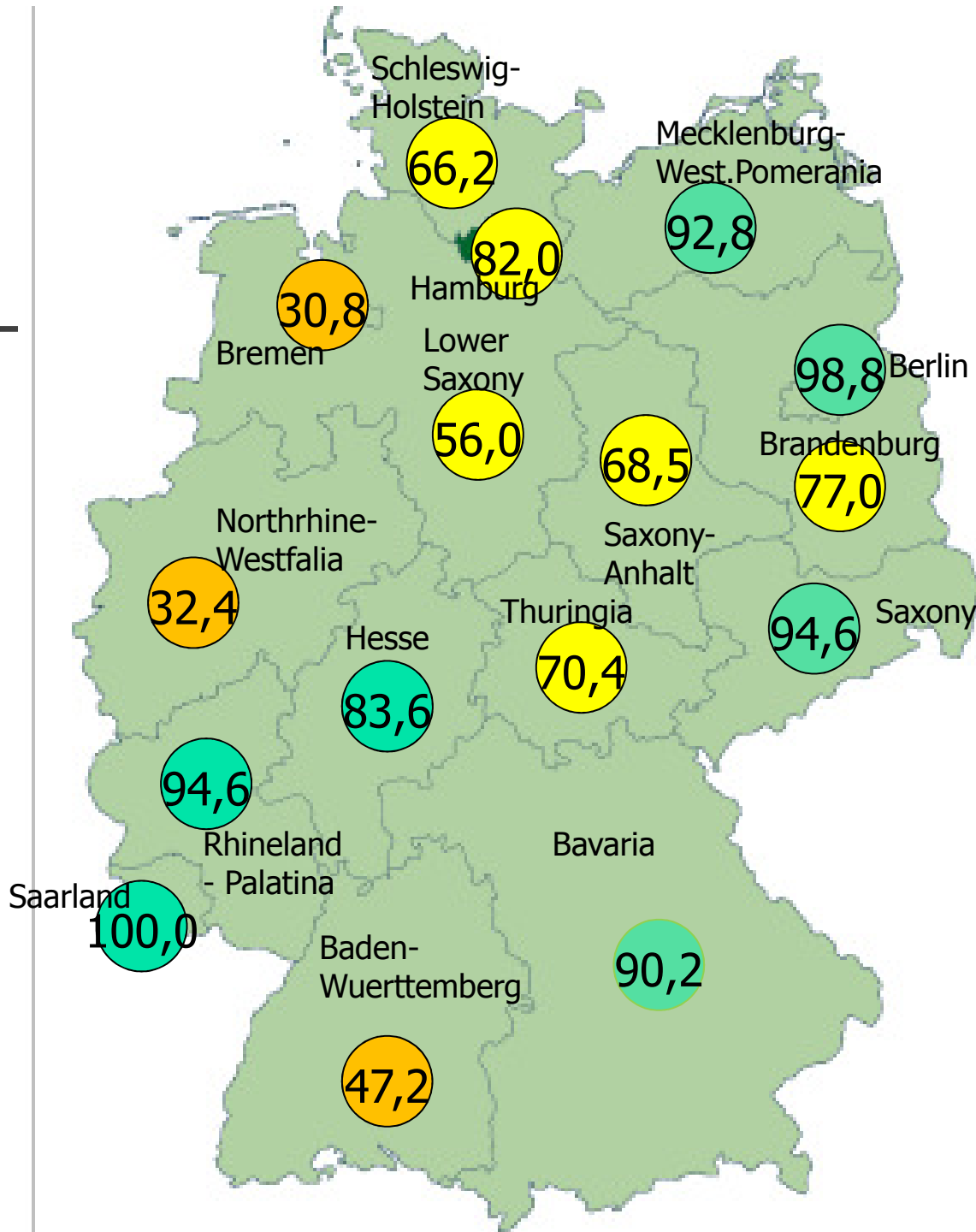
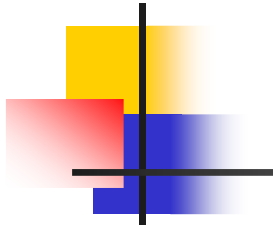


Regional analysis across German Bundesländer: OST and methadone detection rate at OD

■ methadone detected in OD (%)

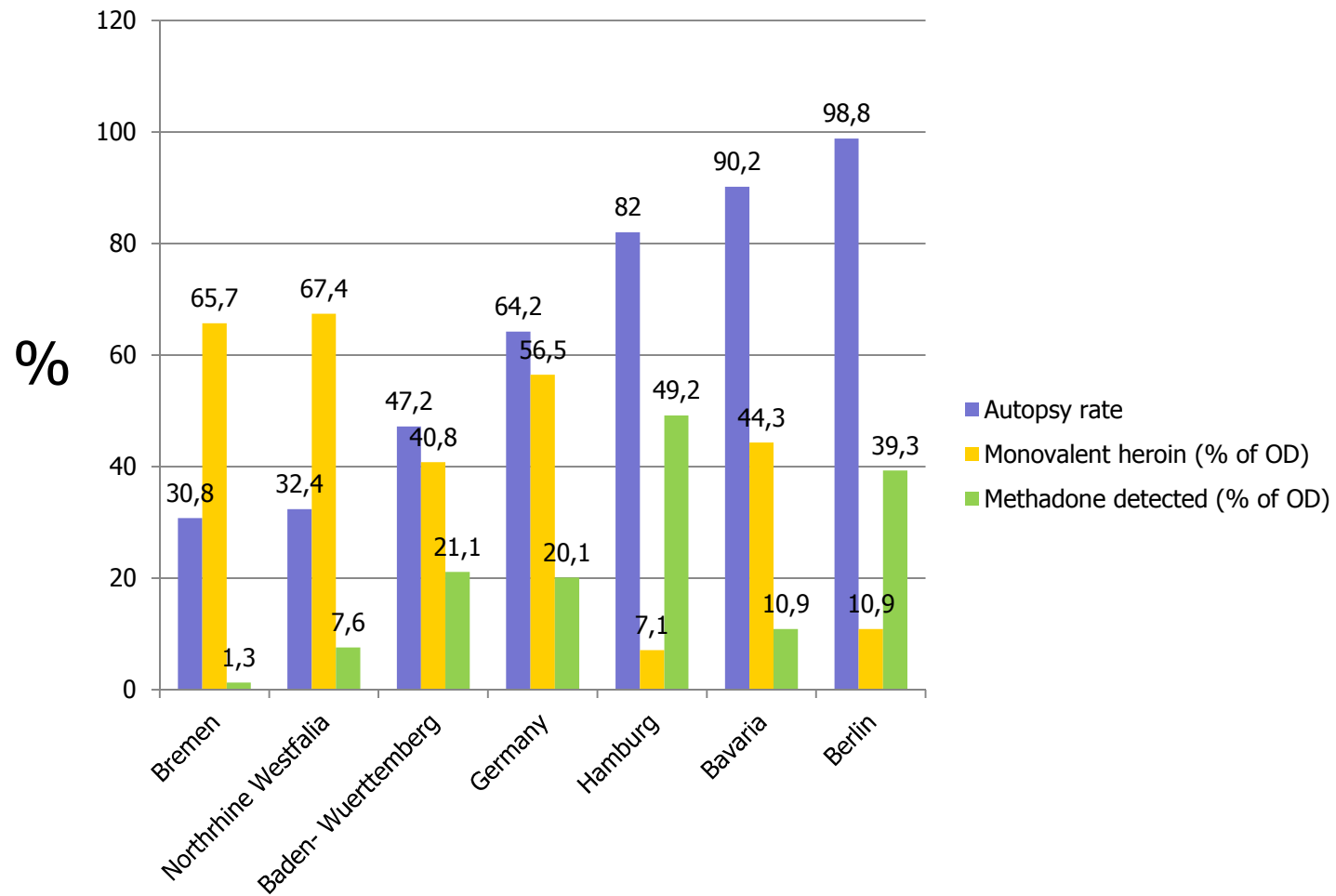
■ patients in OST/100.000, indexed



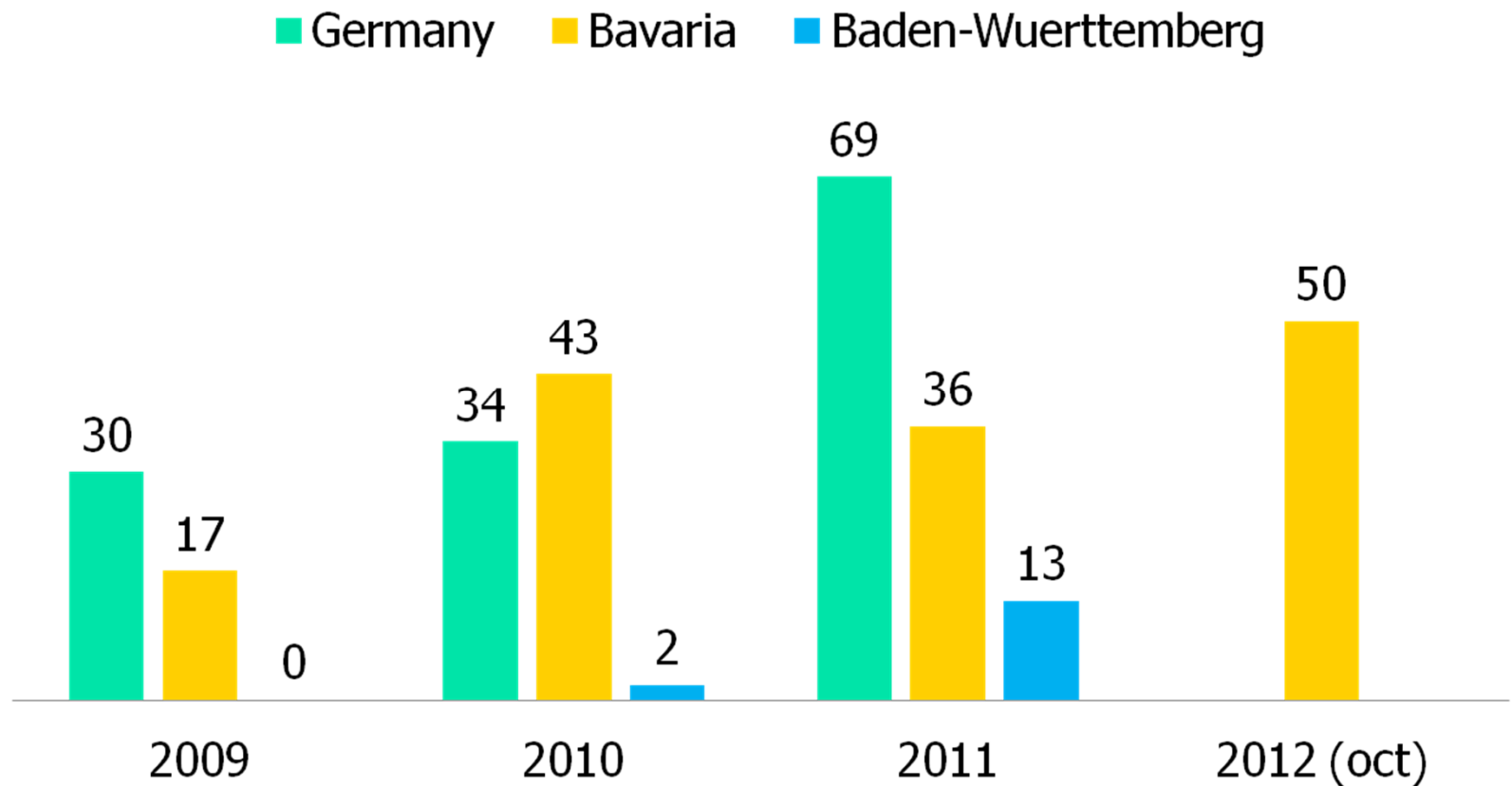


Autopsy
rate in
DRD (%)
(mean 2007-2011)

Quality of data in SMR

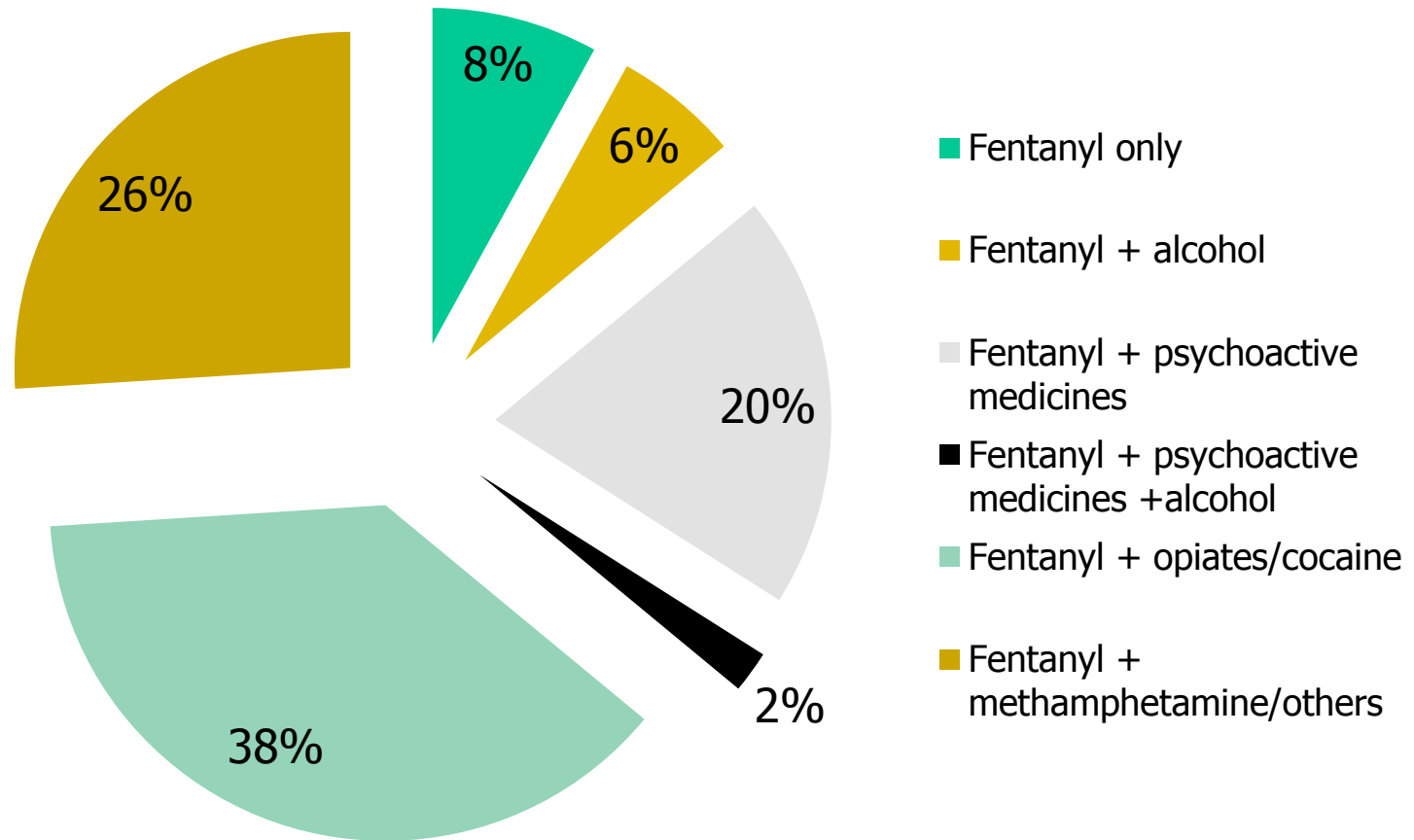


Fentanyl- related deaths (SMR, personal comm.)



Fentanyl- related overdose in Bavaria

(Data from Bavarian SMR, 2011/2012)





Substances detected in some cases of polydrug overdose in Berlin and Hamburg in 2011

- Oxycodone/Oxymorphone
- Palladone/Hydromorphone
- Fentanyl
- Mephedrone/Methoxymethcathedrone (MMC)
- Methylendioxyprovalerone (MDPV)
- Ketamine/Ketanest
- Pseudoephedrine

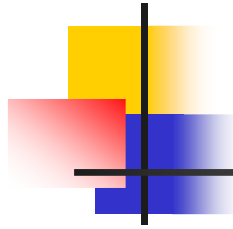
Quality of reporting: Traditional report structure of German SMR



	SH
Überdosis von	
Heroin	5
Heroin i.V.m. sonst. Drogen	7
Kokain	--
Kokain i.V.m. sonst. Drogen	1
Amphetamin	1
Amphetamin i.V.m. sonst. Drogen	--
Ecstasy	--
Ecstasy i.V.m. sonst. Drogen	--
Substitutionsmittel	4
- davon Methadon / Polamidon	4
- davon Subutex	--
Substitutionsm. i.V.m. sonst. Drogen	8
- davon Methadon / Polamidon	7
- davon Subutex	--
Sonstige BtM / Drogenart nicht bek.	2
Suizid	1
Langzeitschäden	4
Unfall / Sonstige	2
Gesamtzahl der Todesfälle*	35

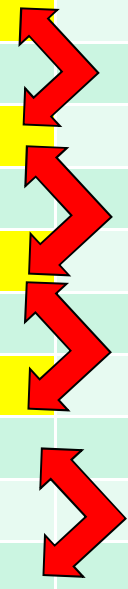
Poisoning due to	Number
Heroin	
Polydrug pois. With heroine involved	
Cocaine	
Polydrug pois. With cocaine involved	
Amphetamine	
Polydrug pois. With amphetamine	
MDMA	
MDMA polydrug	
Prescription opioids	
- methadone/polamidon	
- Subutex/buprenorphine	
Prescription opioids in polydrug pois.	
- with methadone/polamidone	
- with Subutex/buprenorphine	
Other illicit drugs/ unknown drug	
Suicide	
Disease due to Longterm harm of drug use	
Accident/ Other manners	
Absolute number *	

Traditional report structure of German SR

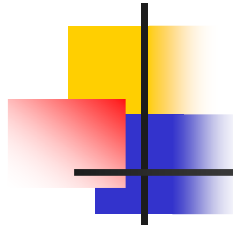


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Other illicit drugs/ unknown drug	
Suicide	
Disease due to Longterm harm of drug use	
Accident/ Other manners	
Absolute number *	

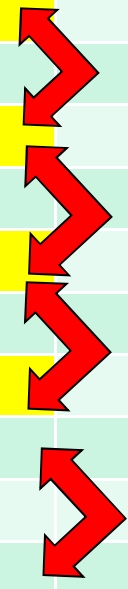


Traditional report structure of German SR

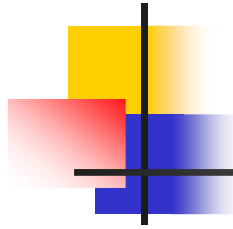


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Substitutionsmittel	4
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Other illicit drugs/ unknown drug	
Suicide	
Disease due to Longterm harm of drug use	
Accident/ Other manners	
Absolute number *	



Traditional report structure of German SR

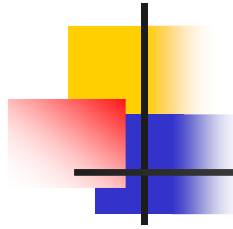


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Poisoning due to	
Heroine	
Polydrug pois. With heroine involved	↙
Cocaine	
Polydrug pois. With cocaine involved	↙
Amphetamine	
Polydrug pois. With amphetamine	↙
MDMA	
MDMA polydrug	↙
Prescription opioids	
- methadone/polamidon	↙
- Subutex/buprenorphine	
Prescription opioids in polydrug pois.	
- with methadone/polamidone	
- with Subutex/buprenorphine	
Other illicit drugs/ unknown drug	
Suicide	
Disease due to Longterm harm of drug use	➔
Accident/ Other manners	
Absolute number *	

Includes again poisonings

Traditional report structure of German SR



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Poisoning due to	
Heroine	
Polydrug pois. With heroine involved	↙
Cocaine	
Polydrug pois. With cocaine involved	↙
Amphetamine	
Polydrug pois. With amphetamine	↙
MDMA	
MDMA polydrug	↙
Prescription opioids	
- methadone/polamidon	↙
- Subutex/buprenorphine	
Prescription opioids in polydrug pois.	
- with methadone/polamidone	
- with Subutex/buprenorphine	
Other illicit drugs/ unknown drug	
Suicide	
Disease due to Longterm harm of drug use	→
Accident/ Other manners	
Absolute number * ???	Include also poisonings



Hindrances

- Absolute numbers of overdoses are not conclusive
- Absolute numbers of indirect drug- related deaths categories were not conclusive
- Share of confirmed substance detections (by autopsy/toxicology) was unknown
- Comparability between German GMR and SR fails
- EMCDDA Standard not applicable

Table 4: Coding of values for the variables "Cause" and "Filter_D"

Cause	Poisoning	Filter_D	Broad group (see note)
18	Poisoning by opioids only (excluding methadone)	1	O
19	Poisoning by methadone only	1	O
20	Poisoning by poly-substances including opioids	1	O
21	Poisoning by (poly)substances excluding opioids	1	NO
22	Poisoning by psychoactive medicines	0	-
23	Poisoning by unspecified/unknown substances	1	NS
Cause	Other than poisoning#	Filter_D	
24	Natural/internal causes	0	-
25	Accidents other than by poisoning	0	-
26	Suicide other than by poisoning	0	-
27	Homicide other than by poisoning	0	-
28	Undetermined causes other than by poisoning	0	-
# These other causes are also mutually exclusive. One case may only be coded to one cause category.			

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21	Poisoning by (poly)substances excluding opioids	1	NO
22	Poisoning by psychoactive medicines	0	-
23	Poisoning by unspecified/unknown substances	1	NS
Cause	Other than poisoning[#]	Filter_D	
24	Natural/internal causes	0	-
25	Accidents other than by poisoning	0	-
26	Suicide other than by poisoning	0	-
27	Homicide other than by poisoning	0	-
28	Undetermined causes other than by poisoning	0	-
<p>[#] These other causes are also mutually exclusive. One case may only be coded to one cause category.</p>			



Issues to be solved

- Define Categories which are mutually exclusive
- Monodrug Opiate poisonings should be reported separately (so far only given for heroine/ methadone/ buprenorphine)
- Avoid multiple nomination in Polydrug poisonings with / without opioides
- Monodrug poisonings with „psychoactive medicine“ should be separated
- „Other illicit drugs“ should exclude opioides
- „Other illicit drugs detected“/ unknown substance should be separated
- Separation of suicidal or accidental poisonings from non-poisoning suicides and accidents.
- Separation of disease due to longterm harm of drug use from poisonings: Separate mixed category when both are relevant in a case

New reporting structure in German SR (1)

No	Category	Bundesland (n)	Cases with autopsy/toxicology (n)
A	Poisoning by opioids/ opiates		
A.1	Monodrug poisoning: Heroin/Morphine		
A.2	Monodrug poisoning: prescription opiate		
A.2.1	subgroup : methadone		
A.2.2	subgroup buprenorphine		
A.2.3	subgroup other prescription opioids (to be listed)		
B	Mixed Poisoning including opioids/ opiates (e.g. amphetamines, cocaine/crack, cannabis, hallucinogens, solvents, synthetic drugs, Sedatives, alcohol, others. Includes poisonings with suicidal intent		
B.1	Polydrug poisoning including Heroin/Morphine ("Substanzen" nach Definition unter B)		
B.2	Polydrug poisoning including prescription opiates		
B.2.1	subgroup : methadone		
B.2.2	subgroup buprenorphine		
B.2.3	subgroup other prescription opioids (to be listed)		

New reporting structure in German SR (2)

		Bundesland (n)	Cases with autopsy/toxicology (n)
C	Poisoning excluding opioids/ opiates		
C.1	Monodrug poisoning: Cocaine/crack		
C.2	Monodrug poisoning: Amphetamines		
C.3	Monodrug poisoning: MDMA, MDE, MDA		
C.4	Polydrug poisoning including cocaine/crack (without opiates)		
C.5	Polydrug poisoning including amphetamines (without opiates)		
C.6	Polydrug poisoning including MDMA/MDE/MDA (without opiates)		
D	Polydrug poisoning including stimulants and opiates (subgroup of B)		
D.1	Polydrug poisoning including cocaine/crack (with opiates)		
D.2	Polydrug poisoning including amphetamines (with opiates)		
D.3	Polydrug poisoning including MDMA/MDE/MDA (with opiates)		
E	Poisonings by psychoactive medicines without illicit drugs		
F	Not specified substances in poisonings (but illicit drugs suspected)		
	Poisonings: Others/ not assignable (to be listed)		

New reporting structure in German SR (3)

		Bundesland (n)	Cases with autopsy/toxicology (n)
G	Suicides		
	G.1 Suicide by poisoning		
	G.2 Suicide by other means than poisoning		
H	Disease due to longterm harm by drug use		
	H.1 Subgroup: Mixed cause of death: Longterm harm combined with poisoning.		
I	Accident (non- poisoning accidents)		
J	Other/ not assignable (only non- poisoning cases)		
	Total drug- related deaths(sum up mutually exclusive categories =A+B+C+E+G2+H+I+J)	0	0
	Autopsy rate : Total (%)		

