

APPENDIX 1 Data Sources

Routine data

Bergen ambulance service - registered overdose call-outs.

Custom seizures outside Bergen, with postal address in Bergen - number of seizures and quantity seized.

Bergen kommune licensing department - annual data on distribution of alcohol licences and number of inspections.

Bergen prison - results of urine tests and seizures, number and quantity seized.

Coop Hordaland - alcohol sales data from supermarkets.

Institute for public health – registrations of cases of infectious diseases - hiv, aids and hepatitis C – regional and city level data.

Hansa Borg Brewery - sales data for alcohol to shops, restaurants and bars in Bergen.

Police - number of seizures and quantity seized; arrests (drink/drug driving plus intoxication-related arrests); and overdose deaths in Bergen.

Kirkens Bymisjon Omsorgsbasen for women – number of syringes distributed

Kripos - number of seizures and quantity seized

Landsforbundet Mot Stoffmisbruk (LMS) - number of calls to helpline.

Ringnes brewery - sales data for alcohol to shops, restaurants and bars in region.

Rustelefonen - number of calls to helpline.

Stiftelsen Bergenslinikkene - drug treatment data (primary drug on entry to treatment, and annual data on number of patients in substitution treatment).

Straxhuset – number of syringes distributed.

Customs seizures in Bergen - number of seizures and quantity seized.

Utekontakten – number of syringes distributed.

Vectura (alcohol distributor) - sales data for alcohol to shops, restaurants and bars in Bergen.

Wine monopoly - alcohol sales data from outlets in Bergen.

Vitusapotek Nordstjernen - sale of medicines and syringes from pharmacies in Bergen.

Media sources

Ba.no - Bergen newspaper (internet version) - drug related hits on website.

BT.no - Bergen newspaper (internet version) - drug related hits on website.

Blikk - monthly magazine for the lesbian and gay community.

Dopingtelefon.no - website focusing on anabolic steroid use.

Fitnessprat.no - website focusing on anabolic steroid use.

HiBiscus - student newspaper from Bergen High School.

K7 Bulletin - student newspaper from Bergen business school.

Megafon - Bergen street magazine.

Motgift.no - journal and website for Norwegian narcotics police.

Natt og Dag - monthly entertainment and listings magazine.

Noabuse.no – website with monthly summaries of drug-related news stories.

Norshroom.org - drug user website with chatroom.

plan B - monthly entertainment and listings magazine.

rus&samfunn - national journal for professionals working with drug use.

Spirit - youth magazine.

Studvest - student newspaper for university of Bergen.

Informants:

Key informants: panel of anonymous experts linked to drug using scenes in Bergen. Complete a 6 monthly questionnaire with observations on consumption and availability trends, health problems etc.

School panel: panel of drug advisors from secondary schools in Bergen. Complete a 6 monthly questionnaire with observations on consumption and availability trends, health problems etc.

APPENDIX 2

Table 2: Example: Collation table for routine data, website hits and informant use/availability data for period 1st. October 2007 to 31st March 2008

Substance	Customs (in Bergen) Seizures No. - quantity		Customs (outside Bergen) Seizures No. - quantity		Police (local) Seizures No. - quantity		Police (national) Seizures No. - quantity		Bergen prison Seizures No. - quantity - tests		
Anabolic steroids	4*(5)	5 (5)	2 (2)	3 (1)	3 (4)	4 (5)	4 (5)	5 (5)	4* (2*)	4*(2*)	3*(2*)
Alcohol	4(2)	5(1)	4*(4*)	5 (5)					2 (3*)	2 (2)	4*(4*)
Cannabis	3(2)	1 (5)	4 (1)	4 (2)	2 (5)	2 (5)	3 (4)	1 (5)	3* (1)	3 (-)	1(2)
Amphetamine	3*(3*)	5(5)	3*(2*)	5 (1)	3 (5)	5 (1)	4 (4)	5 (5)	- (3*)	- (3*)	4 (3)
Ecstasy	2*(-)	1 (-)			3 (3)	2 (3)	4 (4)	1 (5)			2*(3*)
Cocaine	- (3*)	- (4*)			3 (1)	5 (1)	4 (4*)	2 (4*)			2* (-)
Magic Mushrooms	4*(2*)	5 (1)	3*(4*)	1(5)	3* (-)	5 (-)	2* (-)	3 (-)			
LSD					2*(3*)	1(4*)	3* (-)	3* (-)			
GHB	2*(-)	2* (-)	4*(2*)	5 (1)	2 (2*)	4* (1)	3 (1)	5 (1)			
Heroin	3*(-)	3*(-)			2 (4)	5 (1)	3 (3*)	5 (5)		3* (-)	2 (1)
Methadone					3*(4*)	2 (5)	4* (1)	5 (-)			1 (-)
Subutex							5 (5)	5 (5)	- (4*)	- (4*)	2 (1)
Suboxone											
Temgesic							5 (3*)	2 (5)			
Xanor (Xanax)	3*(3*)	5 (1)	3*(3*)	4 (1)			5 (4*)	1 (3)			2*(3*)
Valium	1 (2*)	3 (5)	1 (2*)	1 (2)			4 (3)	5 (5)			2* (-)
Rohypnol	3*(3*)	5 (1)					3 (5)	1 (5)			2*(4*)
Dolcontin							2 (-)	1 (-)			

Table 2: continued

Substance	Bergen Clinics Most used substance	RUStelefonen Helpline calls	LMS Helpline calls	Key informants		Kjentmann		Vitusapotek Nordstjernen Medicine sales
				Use - availability	Use - availability	Use - availability	Use - availability	
Anabolic steroids		4* (3*)		3 (3)	2 (3)	2* (3*)	2* (2*)	
Alcohol	4 (3)	4 (2)	1 (1)	3 (2)	3 (2)	3 (2)	2 (2)	
Cannabis	5 (2)	4 (2)	4 (1)	3 (3)	3 (3)	3 (3)	3 (2)	
Amphetamine	3 (4)	5 (3)	3 (1)	2 (2)	2 (3)	-(3*)	-(2*)	
Ecstasy		4* (3*)	4 (2)	3 (3)	3 (3)	-(3*)	-(2*)	
Cocaine	3* (4*)	4 (2)		1 (2)	1 (2)			
Magic Mushrooms		4*(3*)		-(2*)	4*(2*)			
LSD		2* (3*)		4* (4*)	4* (3*)			
GHB		2* (5)		3 (3)	3* (2)			
Heroin	2 (1)	5 (3)	1 (1)	2 (2)	3 (3)			
Methadone		3* (3*)	3 (1)	3 (3)	3 (2)			
Subutex		5 (3)	1 (1)	2 (2)	2 (3)			4 (4)
Suboxone				3 (2)	4 (1)			2 (1)
Temgesic		3* (4*)		3 (3)	4 (3)			3 (3)
Xanor (Xanax)		-(3*)		3 (2)	3 (3)			4 (4)
Valium		4 (2)	1 (-)	3 (3)	3 (3)			3 (3)
Rohypnol		3* (4*)	2 (1)	5 (5)	5 (5)			4 (3)
Dolcontin		-(3*)		5 (4)	5 (3)			3 (3)

- *1 = strong increase*
- *2 = gradual increase*
- *3 = no change*
- *4 = gradual decrease*
- *5 = strong decrease*
- ** = low number*

() = values from the previous six month period are in brackets

Table 2 (continued)

Substance	Norshroom No. of hits	Bergens- avisen No. of hits	Bergens Tidende No. of hits	Vectura No. of sales	Hansa Borg No. of sales	Ringnes No. of sales	Coop No. of sales	Vin- mono polet No. of sales
Anabolic steroids	2-* (5)	3 (1)	1 (-)					
Alcohol		3 (3)	3 (-)	1 (3)	2 (3)	2 (-)	3 (4)	3 (3)
Cannabis	4 (-)	3 (3)	3 (-)					
Amphetamine	5 (2)	4 (2)	3 (-)					
Ecstasy	5 (4)	1 (3*)	3* (-)					
Cocaine	3 (3)	3 (1)	3 (-)					
Magic Mushrooms	5 (1)		3* (-)					
LSD	5 (-)	5 (2*)	1 (-)					
GHB	3 (5)	5 (3*)	4 (-)					
Heroin	5 (1)	3 (1)	3 (-)					
Methadone	4* (3*)	2*(4*)	5 (-)					
Subutex	4*(2*)	2* (4*)	3 (-)					
Suboxone		3* (-)	3* (-)					
Temgesic								
Xanor (Xanax)	3*(3*)	- (3*)						
Valium	4 (2)	3*(3*)	4 (-)					
Rohypnol	4*(2*)	4 (2*)	3* (-)					
Dolcontin		4* (-)						

Table 3: Weighted and unweighted values by drug

Unweighted					Substance	Weighted					Total		Aggregated differential
1	2	3	4	5		1	2	3	4	5	+	-	
						(x2)	(x1)	(0)	(x1)	(x2)			
1	5	5	4	1	Anabolic steroids	1	8	11	6	2	10	10	0
2	5	7	5	2	Alcohol	6	15	19	7	4	27	15	+12
2	2	9	5	1	Cannabis	4	5	18	9	1	13	11	+2
-	2	6	2	5	Amphetamine	-	7	9	3	9	7	21	-14
2	3	4	2	1	Ecstasy	3	4	11	3	1	10	5	+5
2	1	5	1	1	Cocaine	7	1	7	2	2	15	6	+9
1	-	3	3	3	Magic mushrooms	2	-	3	3	5	4	13	-9
2	2	-	2	2	LSD	3	2	-	2	2	8	6	+2
-	4	3	3	2	GHB	-	6	6	3	3	6	9	-3
1	4	6	-	3	Heroin	2	10	8	-	5	14	10	+4
1	2	5	1	1	Methadone	2	3	11	1	1	7	3	+4
1	4	1	2	3	Subutex	2	10	1	4	7	14	18	-4
-	1	3	1	-	Suboxone	-	3	6	3	-	3	3	0
-	1	3	1	1	Temgesic	-	2	8	3	3	2	9	-7
1	1	5	2	2	Xanor (Xanax)	2	1	10	5	5	5	15	-10
4	1	5	4	1	Valium	8	1	13	7	2	17	11	+6
1	2	4	3	3	Rohypnol	2	3	6	5	9	7	23	-16
1	1	1	1	2	Dolcontin	2	3	3	1	7	7	15	-8

APPENDIX 3 Indices used for calculation of change values

Index for seizures, pharmacy sales, Noabuse and RUStelefonen

- 1 = strong increase = +75 % and above
- 2 = gradual increase = between +25 % and +74 %
- 3 = no change/ relative stability = between +24 % and -12 %
- 4 = gradual decrease = between -13 % and -37 %
- 5 = strong decrease = -38 % and below

Index for alcohol sales

- 1 = strong increase = +11 % and above
- 2 = gradual increase = between +5 % and +10 %
- 3 = no change/ relative stability = between +4 % and -4%
- 4 = gradual decrease = between -5 % and -10 %
- 5 = strong decrease = -11 % and below

Index for key informant consumption & availability variables

- 1 = strong increase = average is 2.3 or less
- 2 = gradual increase = average is between 2.4 and 2.7
- 3 = no change/ relative stability = average is between 2.7 and 3.3
- 4 = gradual decrease = average is between 3.3 and 3.6
- 5 = strong decrease = average is 3.6 or more

Index for treatment data

- 1 = strong increase = +30 % and above
- 2 = gradual increase = between +10 % and +29 %
- 3 = no change/ relative stability = between +9 % and -9%
- 4 = gradual decrease = between -10 % and -29%
- 5 = strong decrease = -30 % and below

Weightings - Data sources

SCORE OF 3 TO 4 – x1 weighting: Media sources, prison seizures, treatment data.

SCORE OF 5 TO 6 – x2 weighting: Regional police seizures, drug helpline, school panel (availability measure).

SCORE OF 7 TO 8 – x3 weighting: Local police seizures, prison drug tests, customs seizures, key informant panel (availability measure), school panel (consumption measure).

SCORE OF 9 TO 10 – x4 weighting: key informant panel (consumption measure), pharmacy sales, alcohol sales.

