

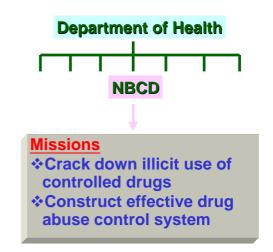


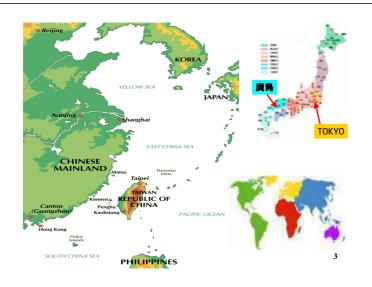
Current Drug Problems and Preventive Strategies in Taiwan

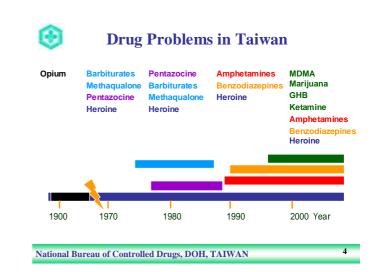


Chun-Sheng Chien (簡俊生), Ph.D. Director-General National Bureau of Controlled Drugs Department of Health Taiwan

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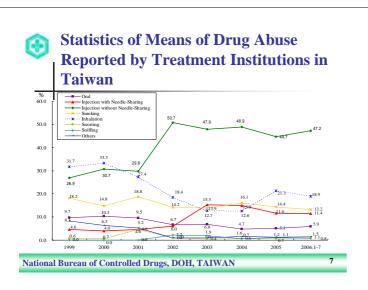


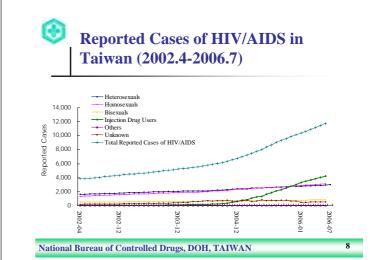
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Drug prevalence comparisons in the world

I	Drug Abuser	Marijuana	Amphetamines		Cocaine	Opiates	Heroin
			Amphetamine	MDMA	Cocame	Opiales	TIETOITI
Number of drug abusers in the world (million)	200.0	160.9	26.2	7.9	13.7	15.9	10.6
% of the pop. aged 15- 64(%)	5.0	4.0	0.6	0.2	0.3	0.4	0.23
% of the pop. aged 12-65 in Taipei, Taiwan (2004)	1.5	0.5	0.7	0.2	0.05	0.1	
% of the pop. aged 12-64 in Taiwan (2005)	1.2	0.3	0.6	0.5	0.1	0.2	

Source : UNODC, 2005 Annual Reports
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Drug Abuse Characteristics



- More varieties of abused drugs
- The purity of drugs varies widely
- Multiple ingredient drugs
- Different approaches to drug abuse
- Diversion and abuse of legal drugs
- Rapid increase of HIV/AIDS cases related to injection drug use
- The increase of Counterfeit drugs

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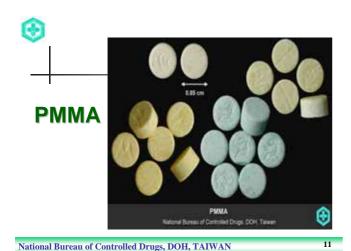


Drug Abuse Characteristics— More Varieties of Abused Drugs



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4-Methylaminorex



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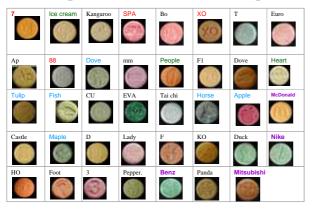
Diphenoxylate



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Various logos on seized MDMA containing tablets





Drug Abuse Characteristics— The Purity of Drugs Varies Widely



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The Purity of Seized Drugs

Picture of Seized Drug	Purity (highest)	Purity (lowest)	Average purity	RSD
	159.5mg		137.8mg	17
	116.6mg	65.3mg	88.1mg	27
	148.6mg	121.4mg	131.8mg	9

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Drug Abuse Characteristics— Multiple-ingredient drugs



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Multiple-Ingredient Drugs

Content(%) year	1 drug	2 drugs	3 drugs	4 drugs	5 drugs	Over 6 drugs
1998	98.78	1.19	0.03	0.00	0.00	0.00
1999	85.50	12.66	1.84	0.00	0.00	0.00
2000	85.15	11.02	3.83	0.01	0.00	0.00
2001	74.47	13.30	11.92	0.28	0.03	0.01
2002	71.18	18.22	10.44	0.12	0.02	0.02
2003	82.28	7.90	9.54	0.19	0.08	0.01
2004	82.27	9.57	6.09	0.83	1.05	0.19
2005	72.70	15.02	7.48	2.57	1.54	0.69
2006	75.61	12.52	11.22	0.33	0.16	0.16

A drug contains more than 10 drugs inside: Ketamine + Nimetazepam + Acetaminophen + Caffeine + Chlorpheniramine + Ethenzamide + Lidocaine + Procaine + Phenytoin + Zolazepam + Tiletamine.

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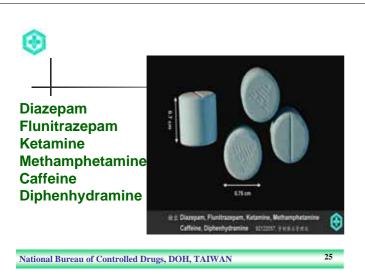


Poly-Drug Combination

The bottles were suspected to contain liquid Ecstasy, MDMA、MDA、PCP、 Ketamine, PMMA and Caffeine were found









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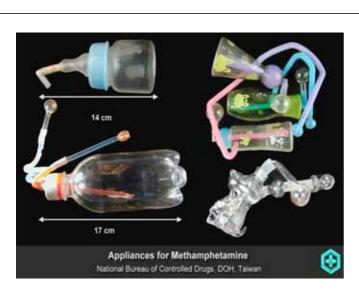
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Drug Abuse Characteristics— Different approaches to Taking Drugs

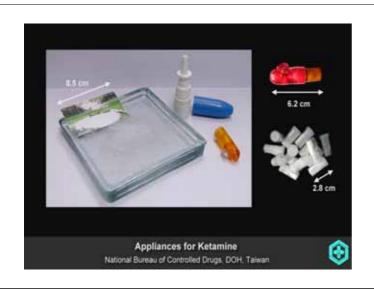


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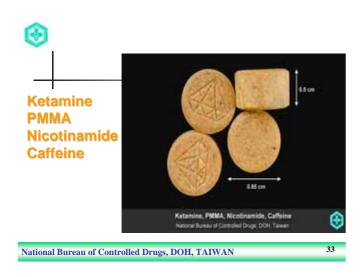
Drug Abuse Characteristics— Diversion and Abuse of Legal Drugs



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Drug Abuse Characteristics— Rapid Increase of HIV/AIDS Cases Related to Injection Drug Use



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Exposure Category in Taiwan (2002.4-2006.07) (Cumulative Cases)

| Reported Cases | Heterosexuals | Homosexuals |

Reported Cases of HIV/AIDS by

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Drug Abuse Characteristics— The Increase of Counterfeit Drugs



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The Drug Looks Like ERIMIN,
But is Zaleplon

Caffeine, Zaleplon

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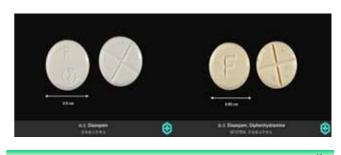
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The Drug Looks Like FM2, but is Diazepam



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Drug Abuse Characteristics

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Drug Abuse Preventive Strategies



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Harm Reduction

- Pilot Projects for IDUs(2005.8~ 2006.12)
- Clean Needle-Syringe Exchange Program (2005.8)
- Substitution Treatment(2006.1)
- Methadone
- Buprenorphine
- 4 Counties
- · Free for AIDS

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Substitution Treatment Pilot program

Criteria for

- Patient Admission
- **■**The Use of Substitute Medicine
- A Qualified Treatment Organization



Substitution Treatment Pilot program

Guideline for Pilot Substitution Treatment

- Patient Admission Criteria
 - DSM IV definition of opioid dependence
 - No adverse reaction to substitute medicine (Pregnant patients first)
 - Treatment agreement between patient and clinics in charge
 - Psychiatrist's evaluation and report
 - Patient drops out for 2 weeks, notice sent, and treatment terminated

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Substitution Treatment Pilot program

Guideline for Pilot Substitution Treatment

- Substitute medicine
- Methadone HCL oral solution take medicine every day initial dose 10-40mg/day maintentance dose 20-120mg/day
- **Buprenorphine HCL/ Naloxone Sublingual tablet** daily dose 8mg, adjust as necessary Take Every other day
- Take medicine at clinic, under medical staff supervision



Substitution Treatment Pilot program

Guideline for Pilot Substitution Treatment

- **Treatment Organization**
- Designated by DOH for drug dependence or AIDS treatment
- Medical quality assurance procedures Separated space for Substitution Treatment and drug safety storage
- Qualified Medical Team: Psychiatrists, Pharmacists, nurses, clinical physiologists, social workers, etc.
- Psychiatrists have licenses to use controlled drugs and attend continuous education seminars for drug dependence treatment held by DOH 8 hr per year
- Should have Controlled Drug Registration

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New Drug Rehabilitation Program

Cooperation between <u>Department of Health</u> and Ministry of Justice

- Designated medical teams stationed in correctional institutions
- Drug Dependence Treatment & Community Rehabilitation

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Thank you for your attention

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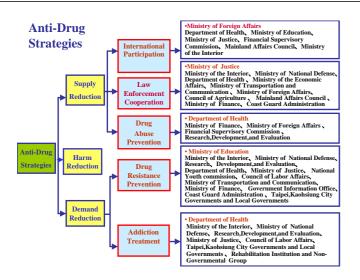
Ranking of the Amount of Seized Drugs in Taiwan

	III Taiwaii				
Rank Year	No. 1	No. 2	No. 3	No. 4	No. 5
2001	(Meth)Amphetamine	Heroin	Marijuana	MDMA	Ketamine
	1421.0 kg	362.5 kg	107.0 kg	44.7 kg	9.5 kg
2002	(Meth)Amphetamine	Heroin	Tramadol	MDMA	Ketamine
	1298.1 kg	599.1 kg	147.2 kg	132.6 kg	63.2 kg
2003	(Meth)Amphetamine	Ketamine	Heroin	MDMA	Marijuana
	3980.5 kg	600.5 kg	532.6 kg	405.6 kg	121.2 kg
2004	(Meth)Amphetamine	Heroin	Ketamine	Ephedrine	MDMA
	3,165.5 Kg	644.5 kg	613.4 kg	363.6 kg	303.3 kg
2005	Pseudoephedrine 5,400.0 kg	(Meth)Amph etamine precursor 3,300.1 kg	(Meth)Amp hetamine 1,728.6 kg	Methylephed rine 835.1 kg	Ketamine 441.2 kg

Source : Office of Statistics and Informatics, Ministry of Justice

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Drug Rehabilitation Therapeutical Community

- To reduce drug abuser's recidivism rate, DOH cooperates with MOJ
- Integrate rehabilitation and medical treatment program
 - •The drug abuse treatment group of Tsaotun Psychiatric Center support Taichung Rehabilitation Institution
 - The drug abuse treatment group of Taipei City Hospital Song De Branch, Taoyuan Psychiatric Center and Bali Psychiatric Center support Sindian Rehabilitation Institution
- Therapeutical Community

Provide follow-up counseling service and comprehensive drug abuse rehabilitation treatment

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