

Internet addiction in the Netherlands a brief overview

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The colleagues



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IVO research on internet addiction

Some publications:

- Meerkerk, G., Lалан, A. M. E., & Van den Eijnden, R. J. J. M. (2003). *Internetverslaving: hoax of serieuze bedreiging voor de geestelijke volksgezondheid? [Internet addiction: hoax or serious threat for public mental health?]* (Vol. 30). Rotterdam: IVO.
- Meerkerk, G. J., Van den Eijnden, R. J. J. M., & Garretsen, H. F. L. (2006). Predicting Compulsive Internet Use: It's All about Sex! *CyberPsychology & Behavior*, 9(1), 95-103.
- Meerkerk, G. J. (2007). *Pwned by the internet, Explorative research into the causes and consequences of compulsive internet use*. Thesis. Erasmus University Rotterdam, Rotterdam.
- Van den Eijnden, R. J. J. M., Meerkerk, G. J., Vermulst, A. A., Spijkerman, R., & Engels, R. C. M. E. (2008). Online communication, compulsive internet use, and psychosocial well-being among adolescents: A longitudinal study. *Developmental Psychology*, 44(3), 655-665.
- Meerkerk, G. J., Van den Eijnden, R. J. J. M., Vermulst, A. A., & Garretsen, H. F. L. (2009). The Compulsive Internet Use Scale (CIUS): Some Psychometric Properties. *Cyberpsychology & behavior*, 12(1), 1-6.
- Meerkerk, G. J., Van den Eijnden, R. J. J. M., Franken, I. H. A., & Garretsen, H. F. L. (2010). Is compulsive internet use related to sensitivity to reward and punishment, and impulsivity? *Computers in Human Behavior*, 26(4), 729-735.
- Van Rooij, A. J., Meerkerk, G.-J., Schoenmakers, T. M., Griffiths, M., & van de Mheen, D. (2010). Video game addiction and social responsibility. *Addiction Research & Theory*, 18(5), 489-493.
- Van Rooij, A., Zinn, M., Schoenmakers, T., & Van de Mheen, D. (2010). Treating Internet Addiction With Cognitive-Behavioral Therapy: A Thematic Analysis of the Experiences of Therapists. *International Journal of Mental Health and Addiction*, 1-14.
- Van Rooij, A. J., Schoenmakers, T. M., Vermulst, A. A., Van den Eijnden, R. J. J. M., & Van de Mheen, D. (2010). Online video game addiction: identification of addicted adolescent gamers. *Addiction*, 106(1), 205-212.
- Van den Heuvel, A., van den Eijnden, R. J. J. M., van Rooij, A. J., & van de Mheen, D. (2012). Meeting online contacts in real life among adolescents: The predictive role of psychosocial wellbeing and internet-specific parenting. *Computers in Human Behavior*, 28(2), 465-472.



IVO research on internet addiction

Some projects

- Thesis Meerkerk (Meerkerk, G. J. (2007). *Pwned by the internet, Explorative research into the causes and consequences of compulsive internet use*. Thesis. Erasmus University Rotterdam, Rotterdam.)
- Thesis van Rooij (van Rooij, A.J. (2011). *Online Video Game Addiction: Exploring a New Phenomenon*. Thesis. Erasmus University Rotterdam, Rotterdam.)
- Monitor Internet and Youth



IVO research on internet addiction

Focus on

- Internet addiction in general (Meerkerk)
- Online video games (van Rooij)
- Online pornography (Meerkerk)

- Social media?



Some findings

Internet addiction?

- Internet dependence
- Pathological internet use
- Problematic internet use
- Compulsive internet use

Similarities with

- Substance dependence
- Impulse control disorder
- Obsessive compulsive disorder



Some findings

Characteristics (criteria?)

- Loss of control:
 - Longer than intended
 - Quitting attempts without success
 - Relapse
- Preoccupation:
 - Salience
 - Immersion
 - Neglecting other pursuits
- Mood modification (coping)
- Conflict

- Withdrawal symptoms
- Tolerance

Monomania



Some findings

Compulsive Internet Use Scale (CIUS)

- Based on
 - DSM criteria for substance abuse
 - DSM criteria pathological gambling
 - Criteria for behavioral addiction as described by Griffiths
 - Interviews with self-declared 'internet addicts'
- Items tap on
 - loss of control
 - preoccupation
 - withdrawal symptoms
 - coping / mood modification
 - conflict
- Tested in various populations:
 - High reliability: Cronbach's alpha ≈ 0.90
 - Factorial invariance across time, gender, age, heavy versus non-heavy internet use



Some findings

Compulsive Internet Use Scale (CIUS)

How often...

- do you find it difficult to stop using the internet when you are online?
- do you continue to use the internet despite your intention to stop?
- do others say you should use the internet less?
- do you prefer to use the internet instead of spending time with others?
- are you short of sleep because of the internet?
- do you think about the internet, even when not online?
- do you look forward to your next internet session?
- do you think you should use the internet less often?
- have you unsuccessfully tried to spend less time on the internet?
- do you rush through your (home) work in order to go on the internet?
- do you neglect your daily obligations because you prefer to go on the internet?
- do you go on the internet when you are feeling down?
- do you use the internet to escape from your sorrows or get relief from negative feelings?
- do you feel restless, frustrated or irritated when you cannot use the internet?



Some findings

Compulsive Internet Use is related to

- Psychosocial wellbeing
 - Loneliness (+)
 - Self-esteem (-)
 - Depressive symptoms (+)
- Personality factors
 - Emotional stability (-)
 - Impulsivity (delay discounting) (+)
- Social anxiety



Some findings

Main applications related to CIU

- Online games, *mmorpg's*
- Online pornography "*It's all about sex!*"
- Social media: profile sites (e.g. *Facebook*)



Attractiveness of internet

What makes the internet so attractive?

- Diversity
- Availability, Simplicity / ease, Abundance, Affordability
- Continuity, Repeatability (escaping in a virtual world → mood modification, coping)
- Anonymity (→ inhibition)

Instant availability of rewarding stimuli



Attractiveness of online games

- Character Growth (level 1-70)
- Social interaction: building / maintenance of social contacts (Peer Pressure)
- Status, prestige
- Learning skills
- Competition
- Control
- Escape in virtual world (coping)

Note: increasing investment!



Consequences CIU

- Sleep deprivation, poor diet, low physical activity
- Psychosocial well-being
- Impairment in social functioning (offline)
- Impairment in school and work productivity

‘Social isolation and stagnation in development’



Prevalences

- 1% Dutch adult population (Meerkerk 2009)
- 3,2% adolescents (Van Rooij 2008)
- 5,4% adolescent gamers (Van Rooij 2008)
- 1,5% game addicts (Lemmens 2009)

Various international studies: <1% ↔ 10-20-30%

- Method
- Population



Pornography





Online pornography addiction

Study 'De opwinding voorbij'
(Beyond arousal)
(Meerkerk et al., 2011)

Research questions:

1. Who does how often what; what is 'normal'?
2. Porno addiction: prevalence and characteristics

Rapportage

The image shows the cover of a report titled 'De opwinding voorbij' (Beyond arousal). The cover has a green background with a blurred image of people. It features the IVO logo and a small text box describing the institute as a research and advisory organization. The main title 'De opwinding voorbij' is prominently displayed, followed by the subtitle 'Aard, ernst en omvang van gebruik en problematisch gebruik van online pornografie in Nederland'. At the bottom, the authors' names are listed: Gert-Jan Meerkerk, Debby V.M. van den Ende, Martijn Altenburg, and Tim M. Schoenmakers.

IVO

wetenschappelijk bureau voor onderzoek, expertise en advies op het gebied van leefwijzen, verslaving en daaraan gerelateerde maatschappelijke ontwikkelingen

De opwinding voorbij

Aard, ernst en omvang van gebruik en problematisch gebruik van online pornografie in Nederland

Gert-Jan Meerkerk
Debby V.M. van den Ende
Martijn Altenburg
Tim M. Schoenmakers



Online pornography addiction

Methods

- Interviews with therapists
- online questionnaire

- February 2011
- N = 1951 (Response 73%)
- ♀ & ♂ age 18 to 89 year
- Mean 54,5 year (s.d. 14,7)

- Anonym
- „Online-Erotica“





Results online questionnaire porn use

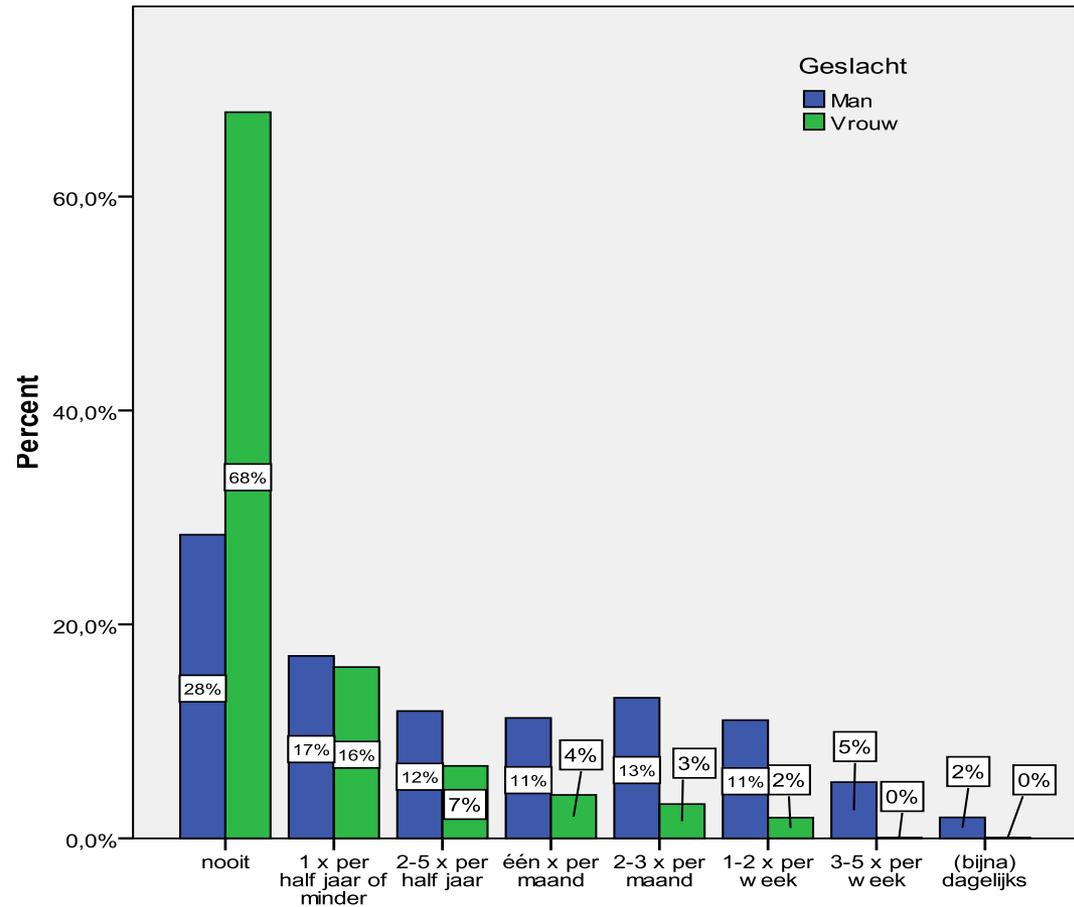
How often do you spend time on online erotica?

≥ 1-2 x/week:

- 18% ♂
- 2% ♀

≥ 3-5 x/week:

- 7% ♂
- ±0% ♀

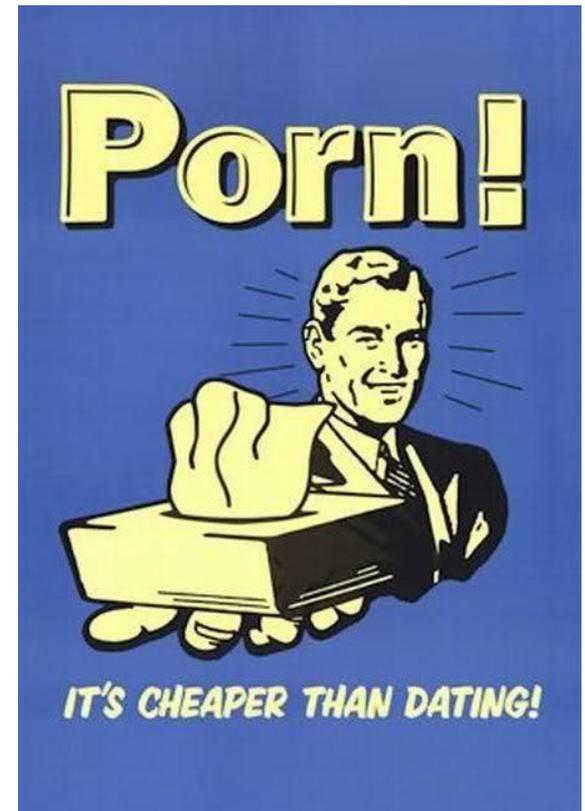




Results online questionnaire porn use

- Popular are video's, photo's and stories (♀)
 - www.youporn.com and Google
- 2% paid
- Interactive porn (chat, webcam) not so popular
- ♂ >> ♀
- Relatively little difference by age
- Singles > having a partner

- Men between 18-54 years with no relationship:
 - 40% ≥ 1-2 x/weekof whom
 - 20% ≥ 3-5 x/week



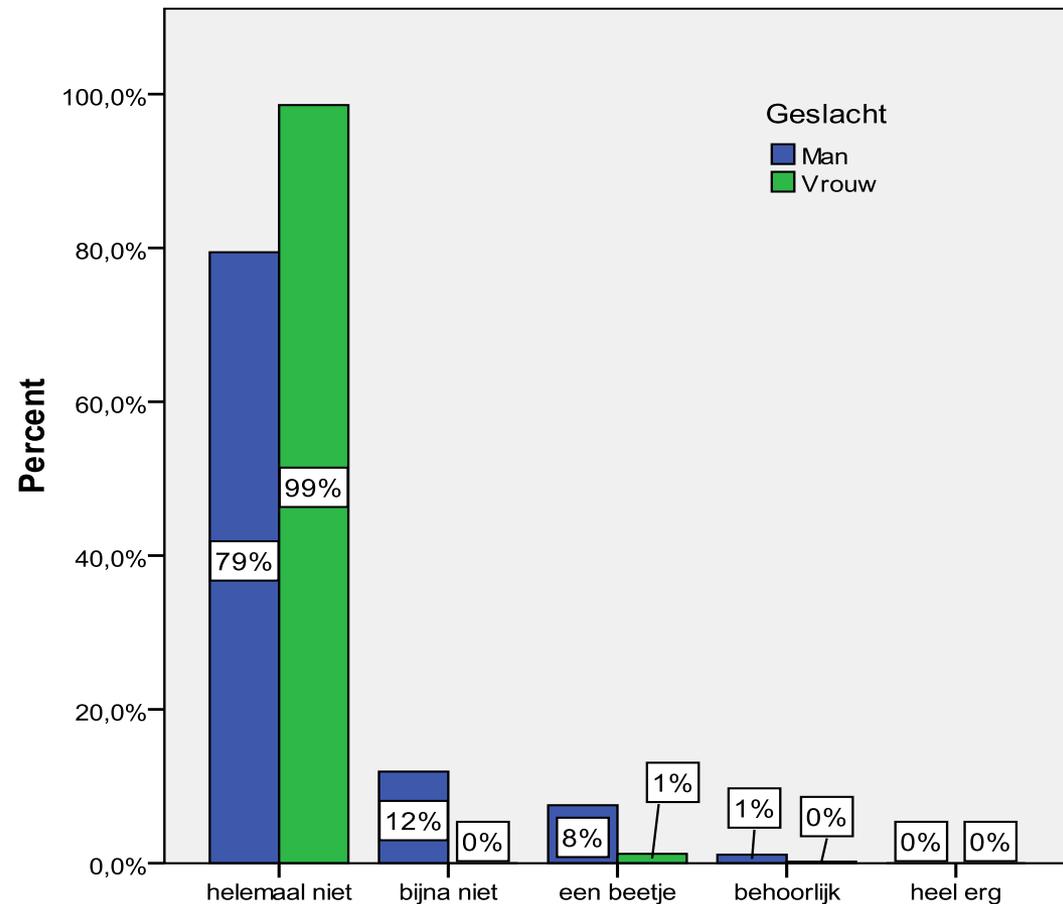


Results online questionnaire porn addiction

Subjective experience

"Do you consider yourself addicted to online erotica?"

:
 8% 'a little'
 1% 'fairly'
 0% 'very much'





Results online questionnaire porn addiction

Results CIUS

E.g. How often are you short of sleep because of online erotica?

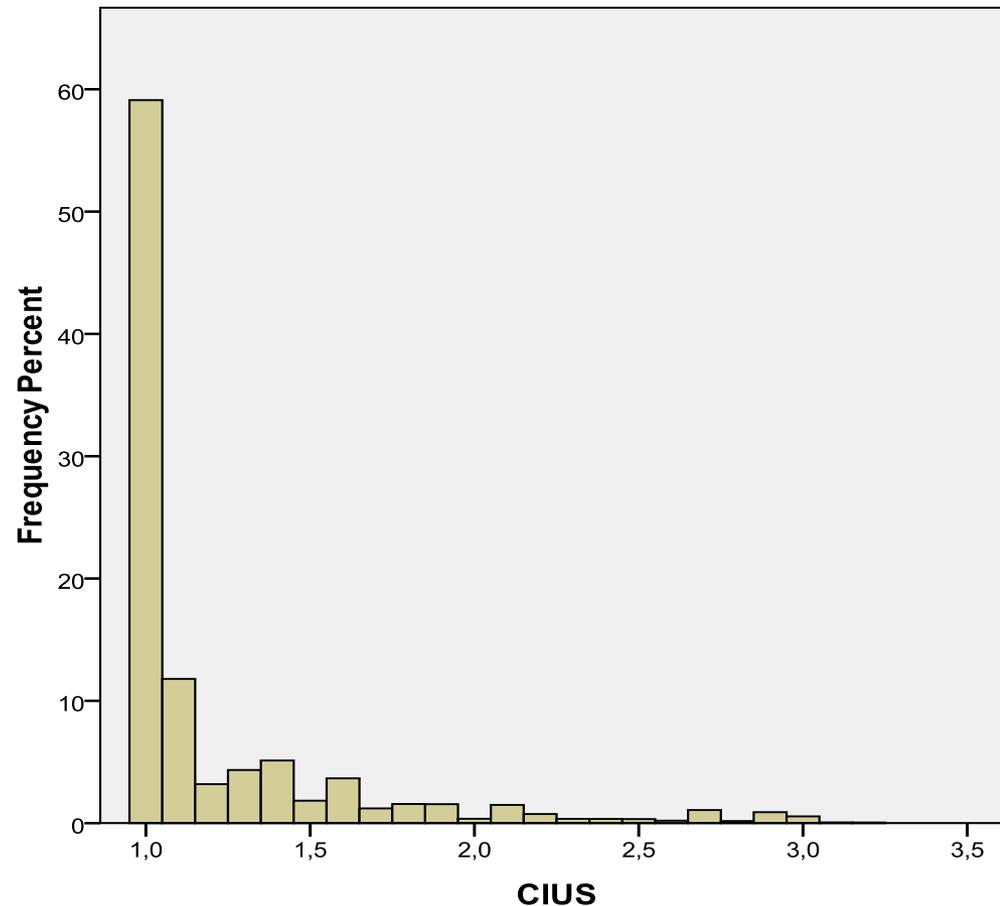
never
rarely
sometimes
often
very often

Very low values:

59%: 1

Max. 3.2

1% ≥ 3





Results online questionnaire

Results in pornography 'addiction'

- Prevalence \approx 1%
- Especially single men
- Less satisfied with relationship and sex life
- More active sex life, more sexual partners and more often masturbate
- Higher depression
- Higher impulsivity
- More sensitive to punishment (BIS)
- Less sensitive to reward (BAS)



Treatment

- Cognitive behavioral therapy
- Time management
- Relapse prevention:
 - recognizing triggers
 - alternative coping strategies
 - pursuits
- Lifestyle Training



Conclusions

- Internet addictions (online gaming, pornography etc.) are to be taken seriously
- Prevalence rather low
- Dutch addiction care organizations can offer an effective therapy
- Awareness needed of doctors, social workers, psychologists, prevention and addiction care workers, policy makers, parents, schools
- Responsibility of the gaming industry?



General remarks

Goal of the Belgian study:

- Nature
 - Severity
 - Extent
- } problems related to internet or computer use
- Formulating advice for addiction care organizations (including prevention)
 - Characteristics of the target group ('internet addicts')
 - Psychosocial wellbeing variables
 - Personality measures
 - Applications triggering risky use
 - Prevalence: cut off point