Updates on longitudinal studies
Swelogs

North American Think Tank (NATT) 2017

Banff, Alberta, Canada
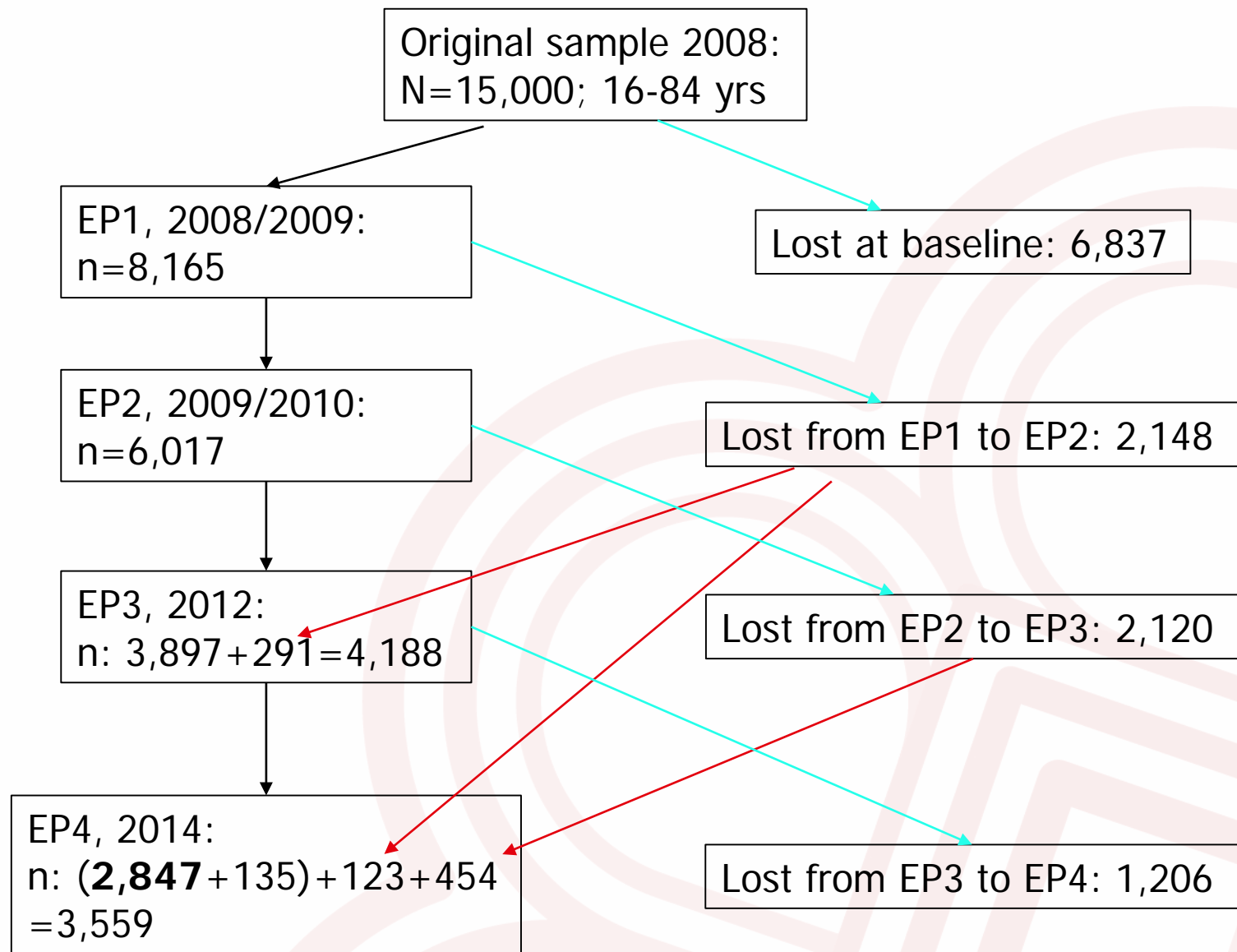
Ulla Romild, Public Health Agency of Sweden

Folkhälsomyndigheten
PUBLIC HEALTH AGENCY OF SWEDEN

Disclosure of Potential Conflict of Interest

Presenter Disclosure

- I have no potential conflicts of interest for my presentation.

Folkhälsomyndigheten
PUBLIC HEALTH AGENCY OF SWEDEN

Original sample 2008:
N=15,000; 16-84 yrs

EP1, 2008/2009:
n=8,165

Lost at baseline: 6,837

EP2, 2009/2010:
n=6,017

Lost from EP1 to EP2: 2,148

EP3, 2012:
n: 3,897+291=4,188

Lost from EP2 to EP3: 2,120

EP4, 2014:
n: (**2,847**+135)+123+454
=3,559

Lost from EP3 to EP4: 1,206

Folkhälsomyndigheten
PUBLIC HEALTH AGENCY OF SWEDEN

Response rates/Retention

100%
80%
60%
40%
20%
0%

100%
74%
54%
51%
44%
40%
35%
28%
24%
19%

EP1 n=8,165   EP2 n=6,017   EP3 n=4,188   EP4 n=3,559   All waves n=2,847

- - ◆ - - % of original sample of 15,000   ━●━ Retention rate (% of EP1 respondents)
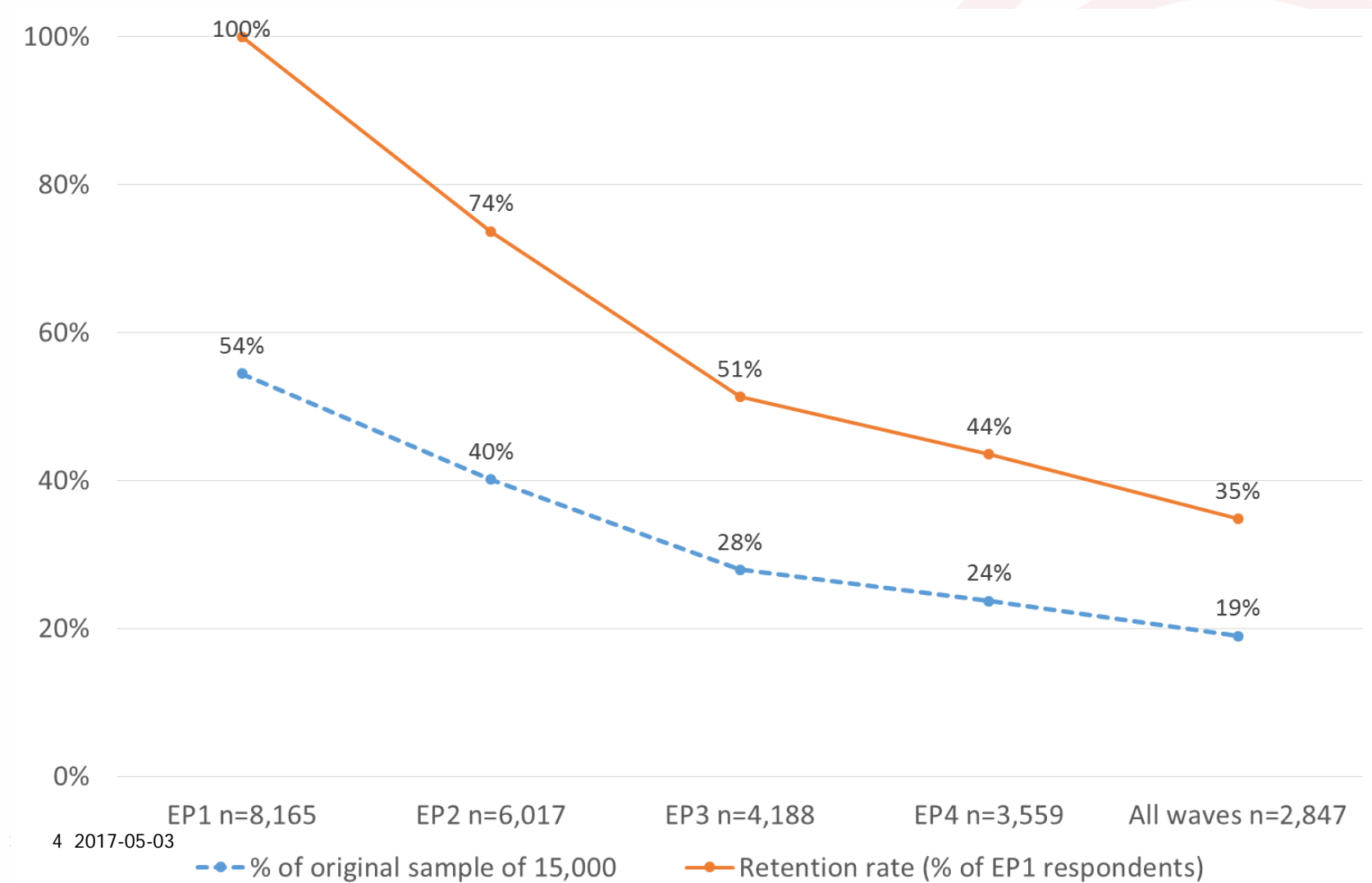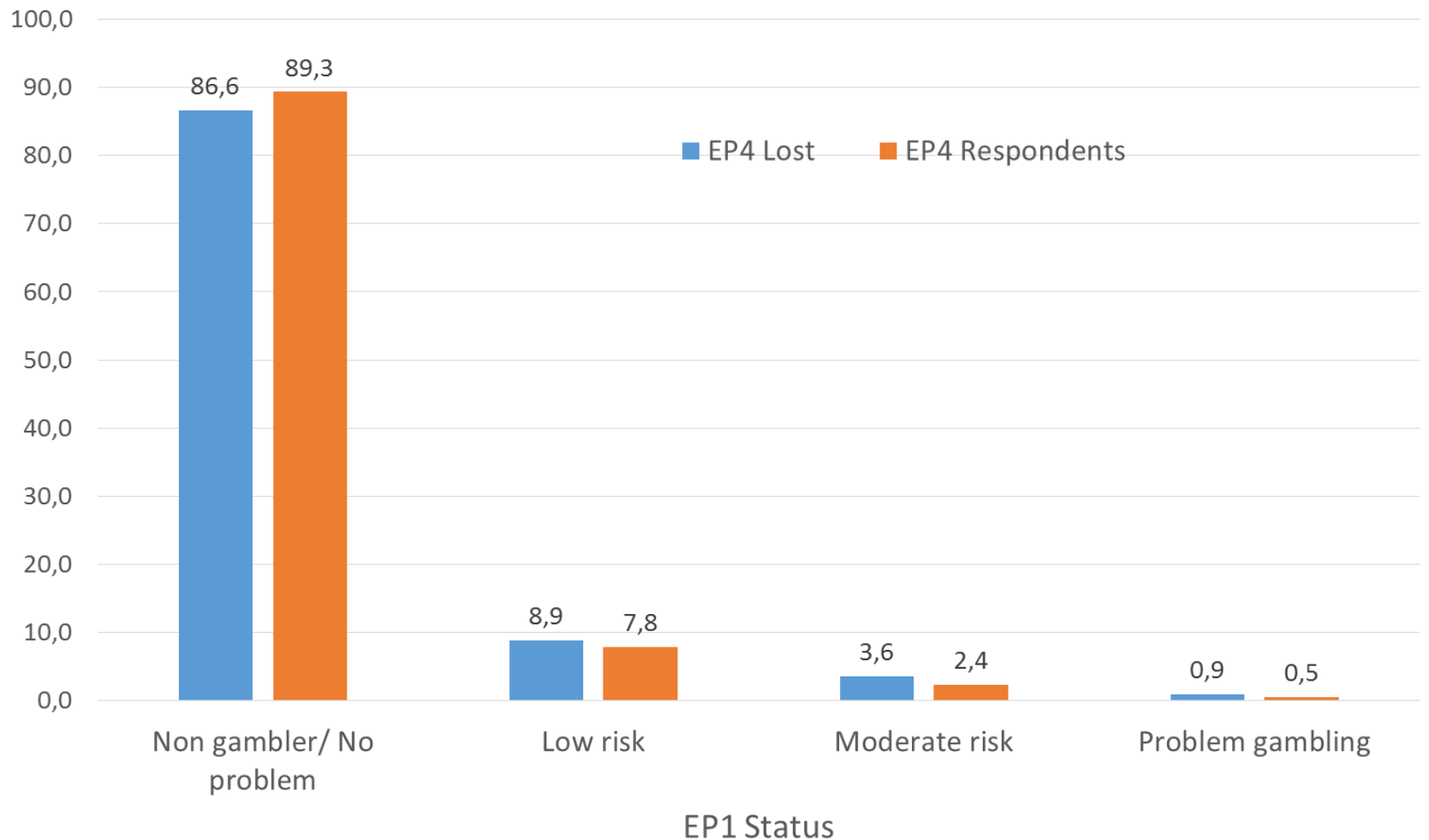
Significant differences between respondents and those lost (unweighted results)

5 2017-05-03

PGSI EP1-EP4 (weighted)

6 2017-05-03

Legend: EP1 2008/09 (n = 8,165), EP2 2009/10 (n = 6,021), EP3 2012 (n = 4,198), EP4 2014 (n = 3,572)

Low risk: 5,4% / 4,1% / 2,7% / 2,9%
Moderate risk: 1,9% / 1,6% / 1,1% / 1,1%
Problem gambling: 0,3% / 0,3% / 0,0% / 0,1%
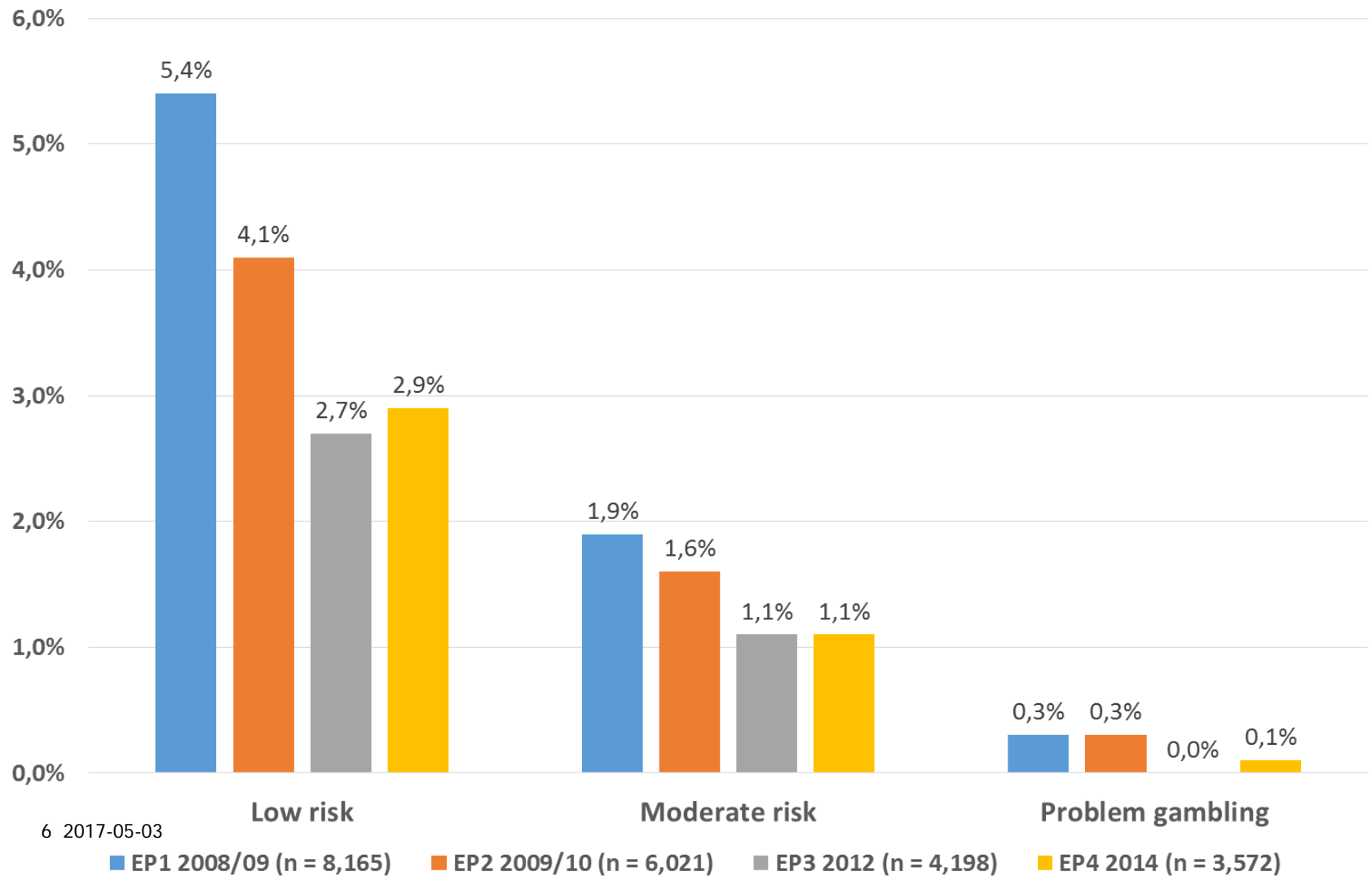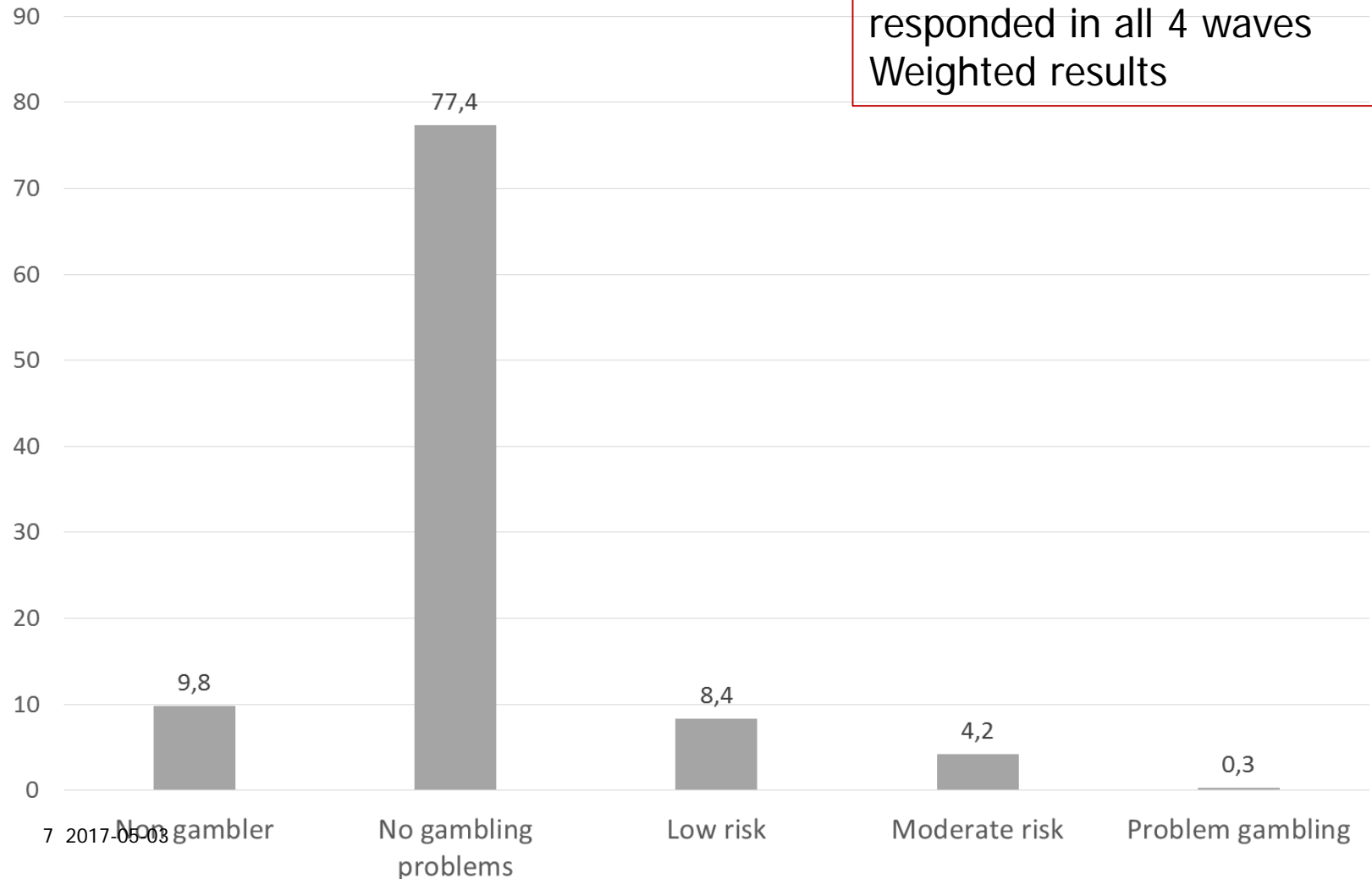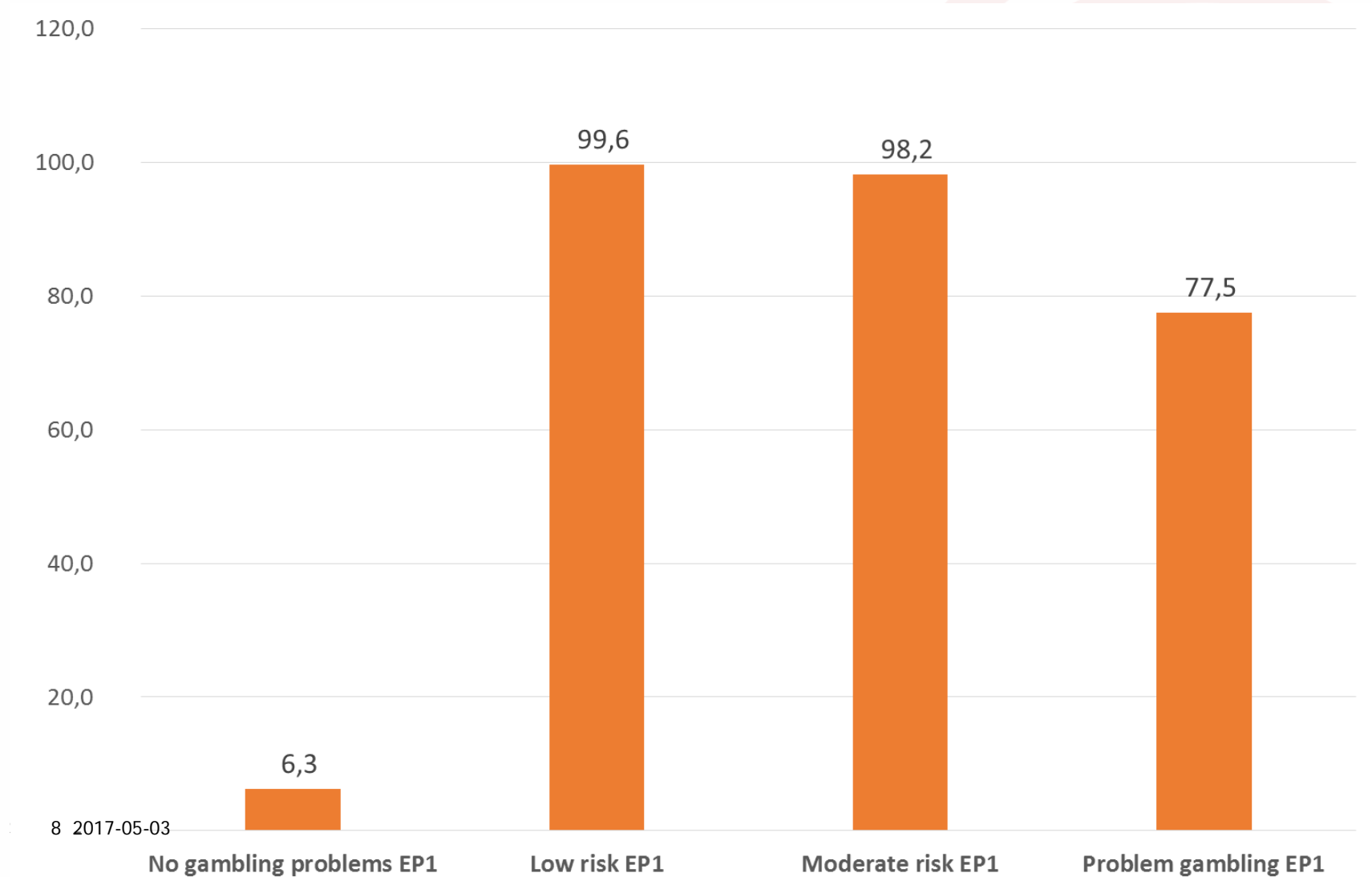
Maximum degree of gambling problems over EP1-EP4

Category: people who responded in all 4 waves
Weighted results

Proportion that changed category at least once EP2-EP4 (weighted)

Bar chart showing:
- No gambling problems EP1: 6,3
- Low risk EP1: 99,6
- Moderate risk EP1: 98,2
- Problem gambling EP1: 77,5

Y-axis: 20,0 / 40,0 / 60,0 / 80,0 / 100,0 / 120,0

Incidence from EP1 to at least once EP2-EP4

EP1 status	No problem -> PGSI 1+	
	OR	P-value
Risky alcohol consumption	1.6	.02
Reduced mental health	1.5	.02
Exposed to violence	1.7	.003
SOGS lifetime problem/path gambler	4.0	.002
Age	.96	<.001
Employed	.62	.03

Folkhälsomyndigheten
PUBLIC HEALTH AGENCY OF SWEDEN

Incidence from EP1 to at least once EP2-EP4

EP1 status	No problem -> PGSI 1+		No problem/low risk -> PGSI 3+	
	OR	P-value	OR	P-value
Risky alcohol consumption	1.6	.02	1.1	.73
Reduced mental health	1.5	.02	1.4	.15
Exposed to violence	1.7	.003	1.4	.15
SOGS lifetime problem/path gambler	4.0	.002	5.4	<.001
Age	.96	<.001	.97	<.001
Employed	.62	.03	.57	.10

Folkhälsomyndigheten
PUBLIC HEALTH AGENCY OF SWEDEN

Analysis plan

- Compare with the Victorian Gambling Study
- SEM as in LLLP
- Multi-level modelling

Folkhälsomyndigheten
PUBLIC HEALTH AGENCY OF SWEDEN

Thank you!