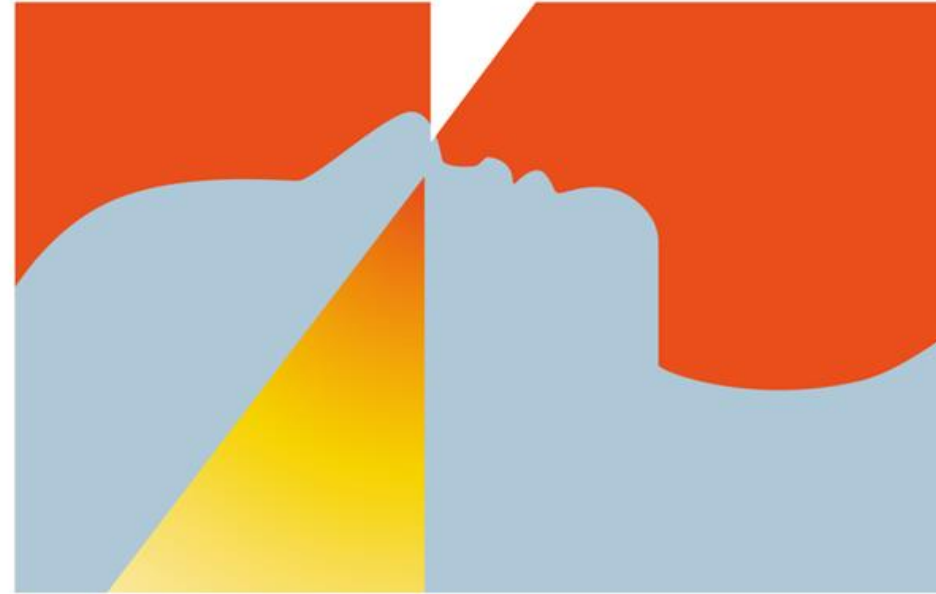


NALOKSON



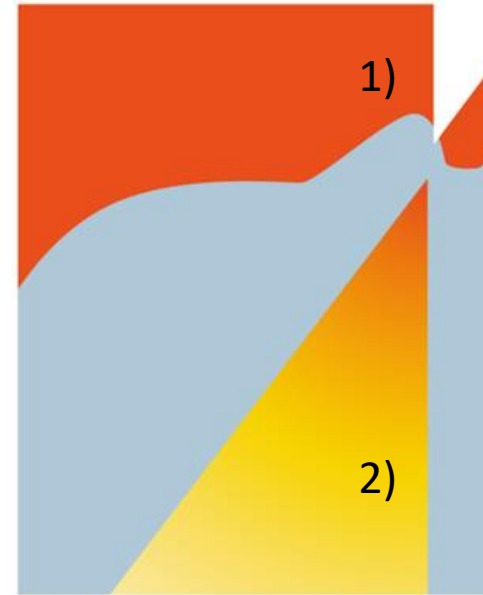
Risks and overdose responses:


Participant characteristics from the first seven years of a national take-home naloxone program

Overdose prevention with take-home-naloxone: Exploring outcomes from a national harm reduction program

NALOKSON

Overdose prevention with take-home-naloxone:
Exploring outcomes from a national harm reduction program




Substance Abuse Treatment, Prevention, and Policy 

[Subst Abuse Treat Prev Policy](#), 2022; 17: 13. PMID: PMC8848922
Published online 2022 Feb 16. doi: [10.1186/s13011-022-00440-y](https://doi.org/10.1186/s13011-022-00440-y) PMID: [35172848](https://pubmed.ncbi.nlm.nih.gov/35172848/)

Staff preferences towards electronic data collection from a national take-home naloxone program: a cross-sectional study

Øystein Bruun Ericson,^{1,2} Desiree Eide,^{1,2} Philipp Lobmaier,¹ and Thomas Clausen¹

 Drug and Alcohol Dependence
Available online 27 September 2022, 109645
In Press, Journal Pre-proof

Risks and Overdose Responses: Participant Characteristics From the First Seven Years of A National Take-home Naloxone Program

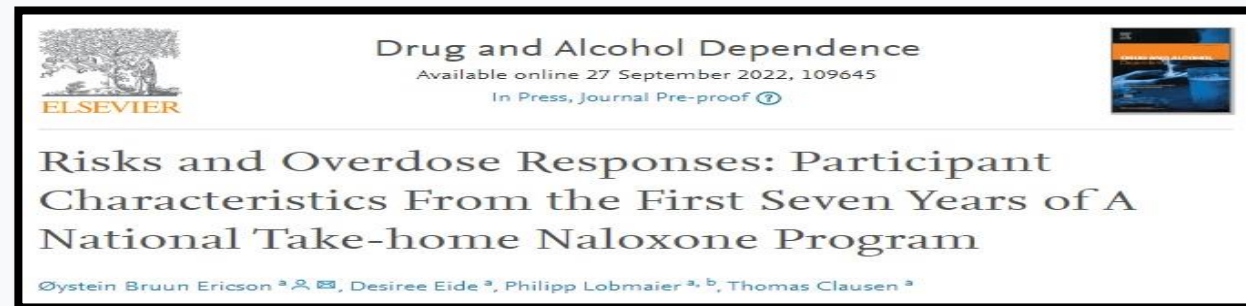
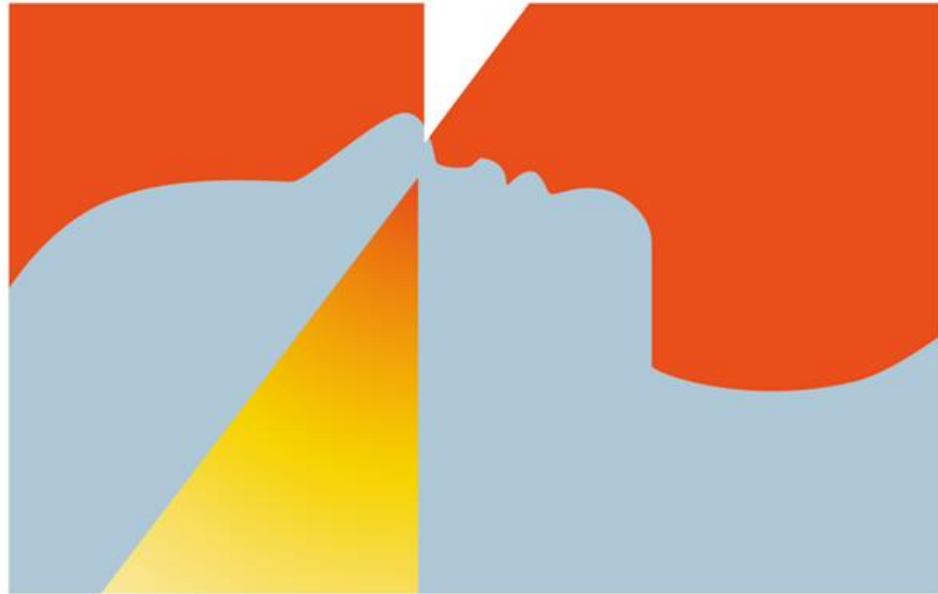
Øystein Bruun Ericson ^{a, b, c, d, e}, Desiree Eide ^{a, b}, Philipp Lobmaier ^{a, b, c}, Thomas Clausen ^a

Upcoming studies

3) *What impact does an e-learning course have on knowledge scores and subsequent distribution of naloxone by staff members?*

4) How do THN participants fare in terms of excess mortality over an 8-year period?

NALOKSON



Disclosure

No conflict of interest

Ethics approved by Norwegian Centre for Research Data - NSD

The Norwegian situation

Population of 5.5 million

7,000-14,000 high-risk opioid users

8,200 patients in opioid maintenance treatment

73 overdose deaths per million*

Naloxone program part of government-funded
Overdose Prevention Strategy

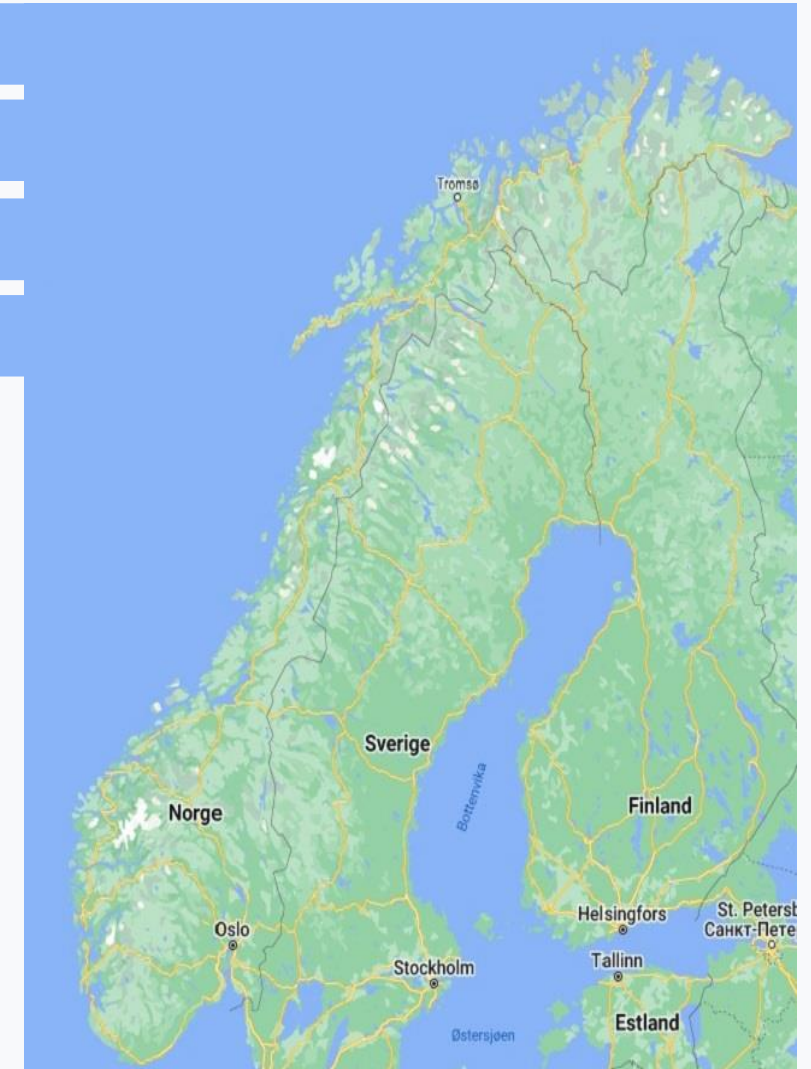
Harm reduction
and research

No cost

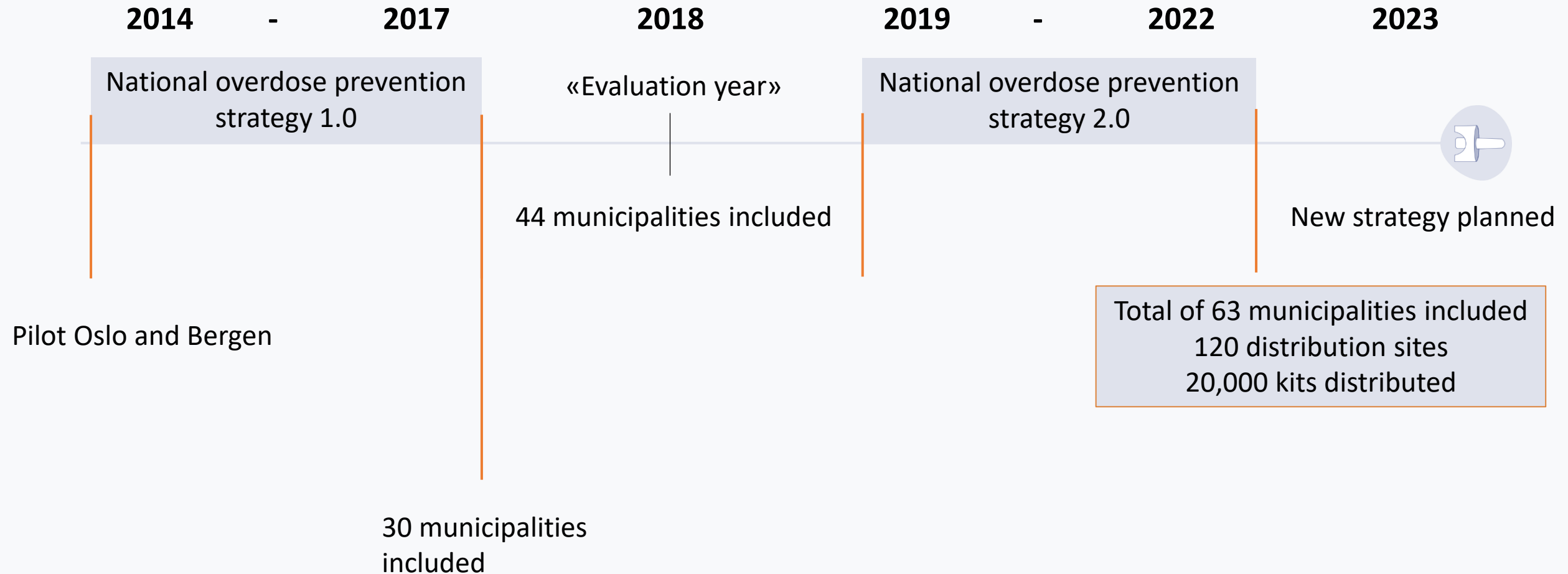


Naloxone nasal device

Overdose
prevention
education



The take-home naloxone timeline





Risks and Overdose Responses: Participant Characteristics From the First Seven Years of A National Take-home Naloxone Program

Øystein Bruun Ericson ^{a, *}, Desiree Eide ^a, Philipp Lobmaier ^{a, b}, Thomas Clausen ^a

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Aims



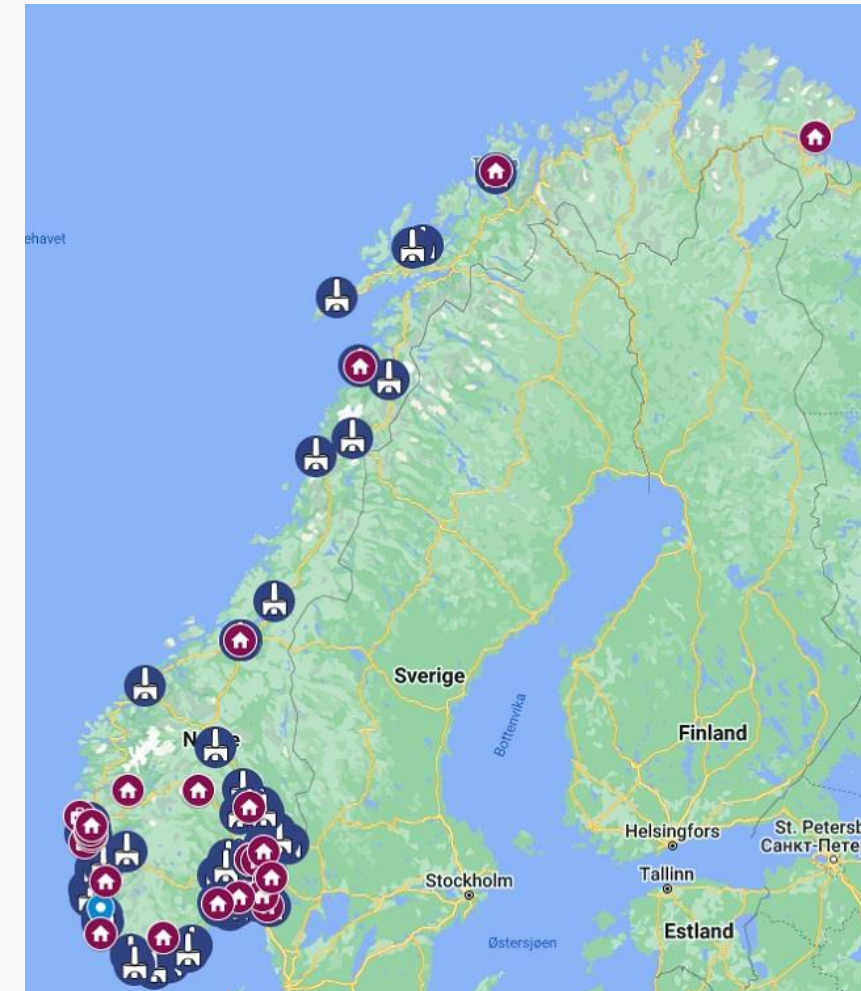
Who did we reach?



Who reported naloxone use?



What did those who returned for refills report?





Risks and Overdose Responses: Participant Characteristics From the First Seven Years of A National Take-home Naloxone Program

Øystein Bruun Ericson ^a, Desiree Eide ^a, Philipp Lobmaier ^{a, b}, Thomas Clausen ^a

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Methodological approach

Prospective cohort study of individuals who received THN from 2014 to 2021

Staff members at already existing facilities collected *questionnaire data*

Voluntary to participate – every one were trained

Questionnaire data


Initial questionnaire

- Demographics
- History of opioid use
 - Risk factors
 - Injection, polysubstance use, using while alone, history of overdoses (experienced)

Refill questionnaire

- What happened with previous kit?
 - Used/not used in overdose
 - If used: relationship, location, actions taken and outcome

nettskjema.no/a/nalokson#/page/1



Hei! Vi har endret litt på rekkefølgen og fremdriften i nettskjemaet. Fyll ut og gjennomfør akkurat som tidligere!

- Deler du ut eller registrerer du nalokson til en klient/pårørende? Huk av for kameratredning
- Er du personell som har brukt spray huker du av for personellbruk

Kameratredning eller personellbruk? *

Kameratredning

Personellbruk

Velg område for utleveringssted *

Velg ...

Alder

Kjønn

Mann

Kvinne

Annet / ønsker ikke svare

Questionnaire data

Initial questionnaire

- Demographics
- History of opioid use
 - Risk factors
 - Injection, polysubstance use, using while alone, history of overdoses (experienced)

Refill questionnaire

- What happened with previous kit?
 - Used/not used in overdose
 - If used: relationship, location, actions taken and outcome

Link questionnaires to explore associations to find the Naloxone Ninja

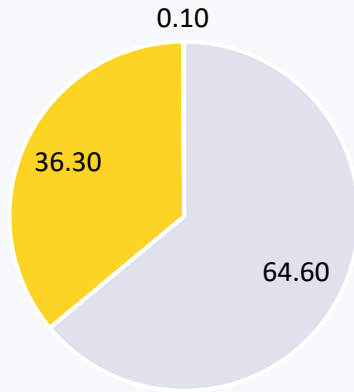


=



Participant characteristics (n=3,527)

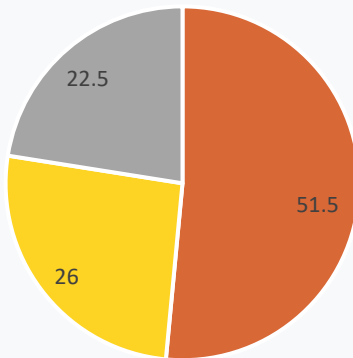
Gender



Male Female Other

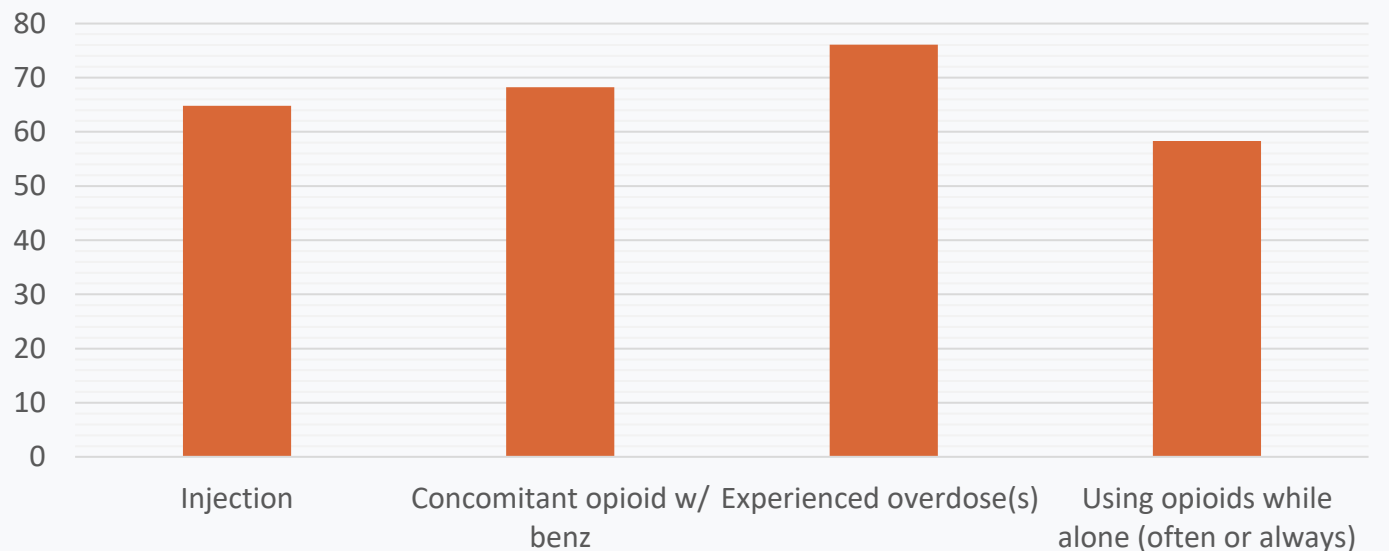
Mean age 39.1 (11.1 SD)
65% male
82% witnessed overdoses
Most had history of opioid use

Opioid use

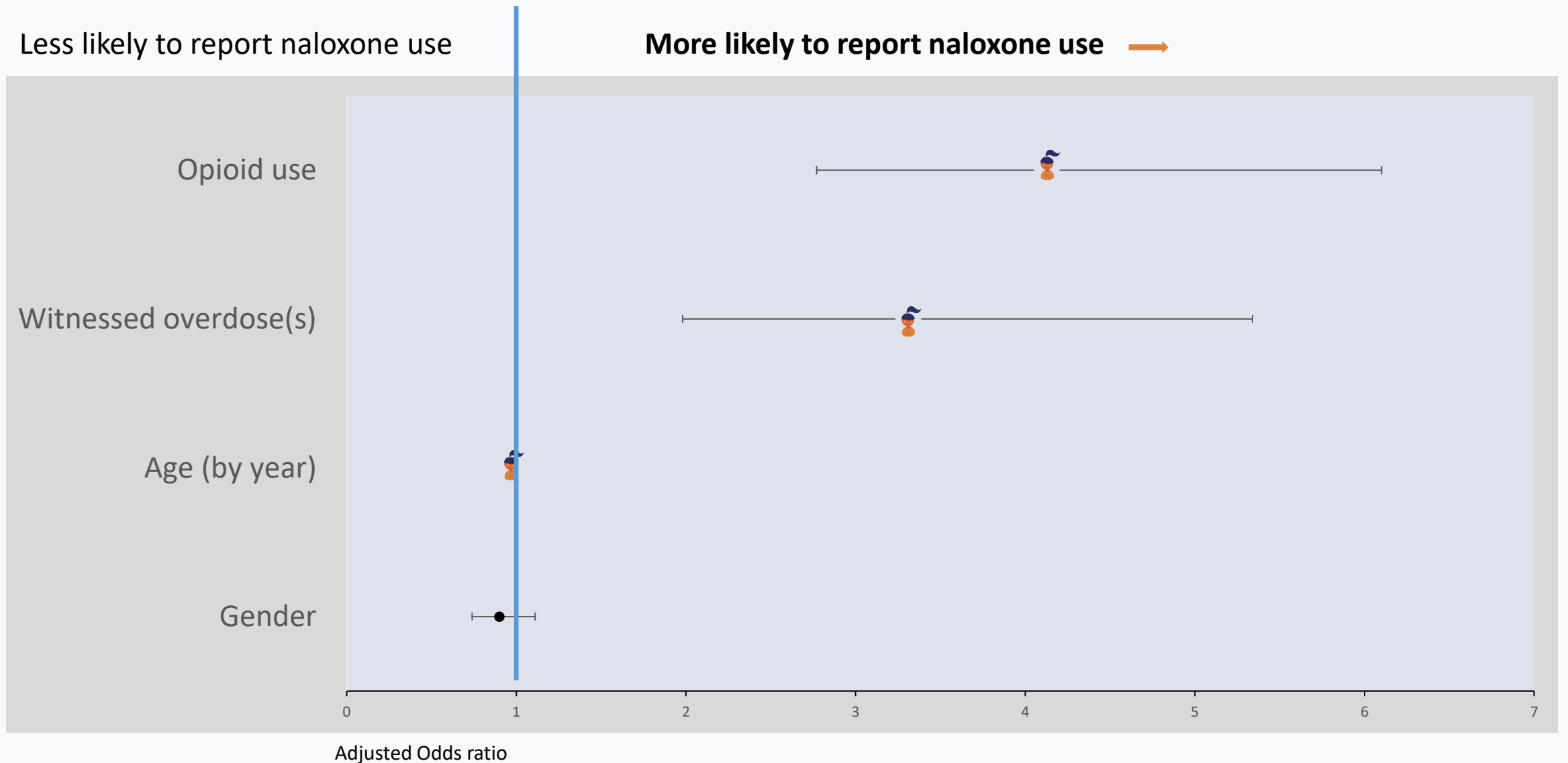


Yes, currently Yes, previously No never

Current opioid users (n=1,816) and risk factors

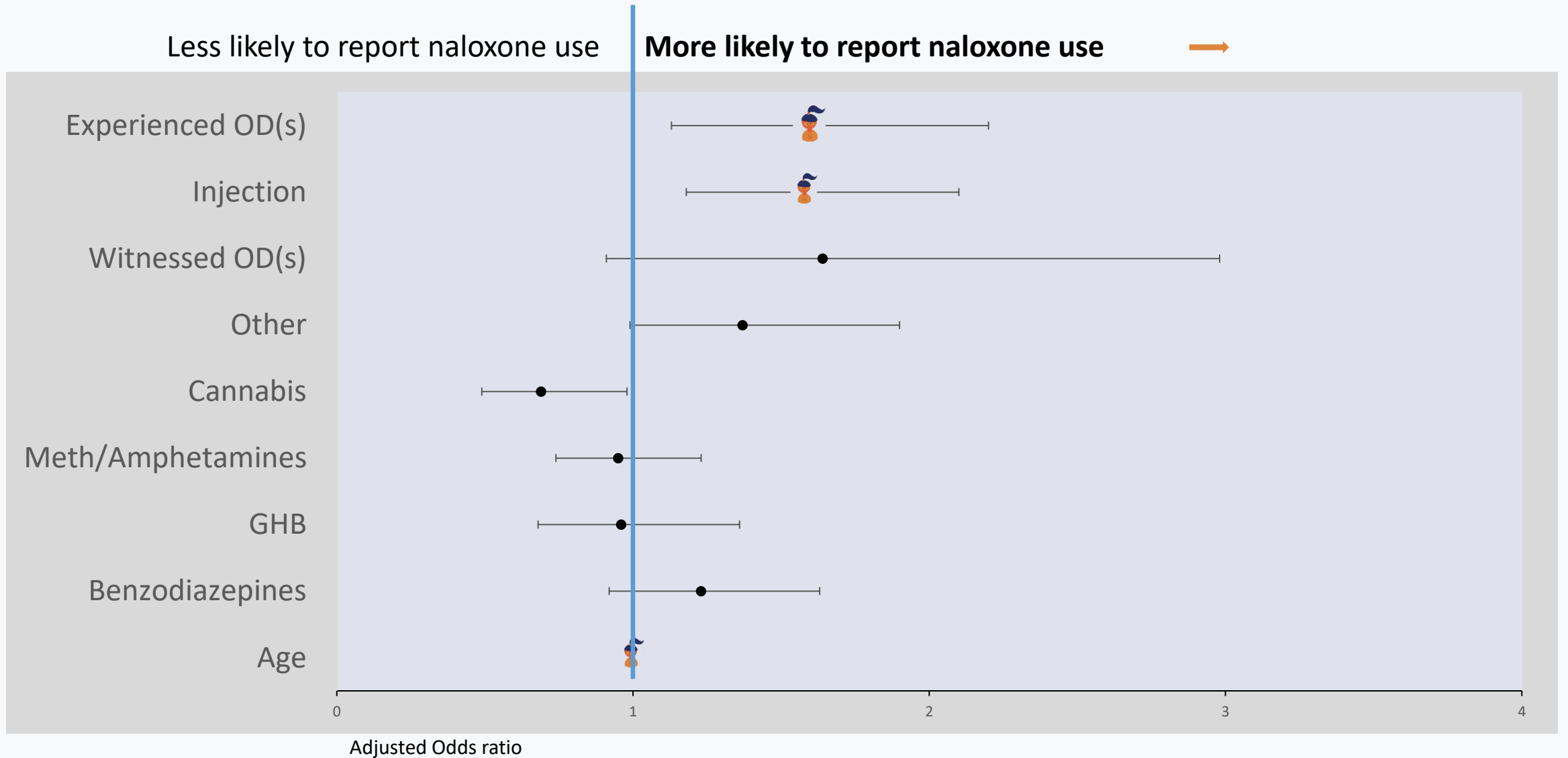


All THN participants (n = 3,152): Associations between naloxone use and characteristics



Participants who currently use opioids (n = 1,602):

Associations between naloxone use and characteristics and risk factors



Say hallo to the Norwegian naloxone ninja



Current injecting opioid user
History of self-experienced overdoses
Slightly younger
Less likely to use cannabis

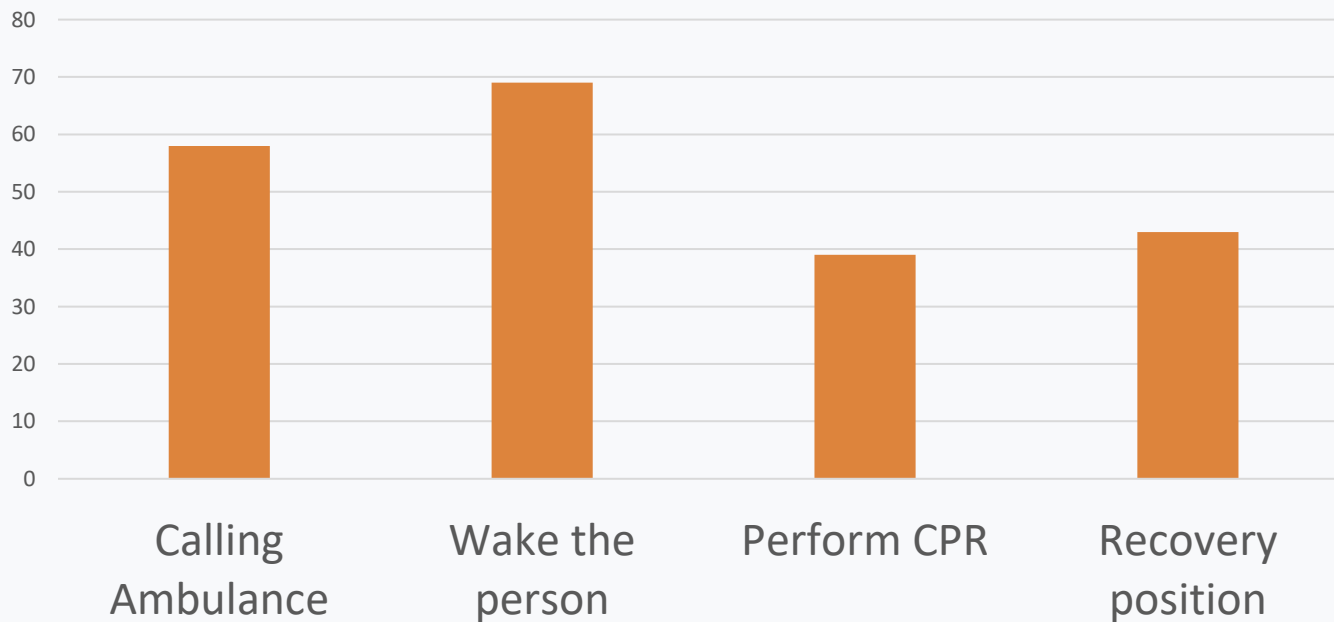
Overdose response

2,303 refills– 1,282 used in an overdose (56%)

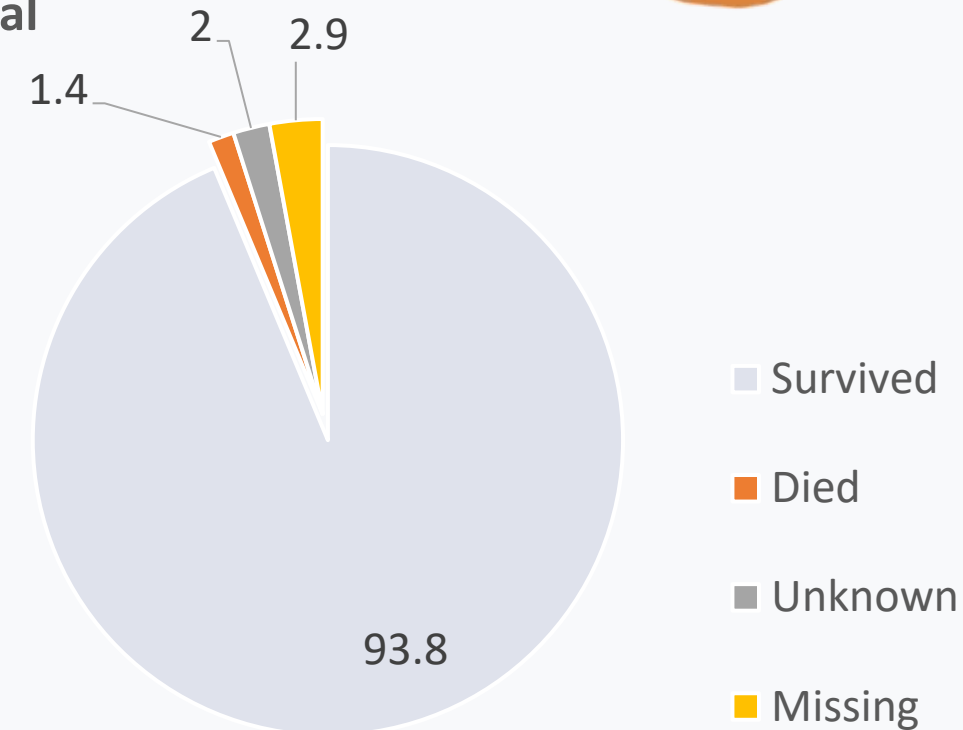
- 69% of those overdosing were a friend, partner, or acquaintance
- 50% of the overdoses occurred in a private home



Measures provided in addition to give naloxone



Survival



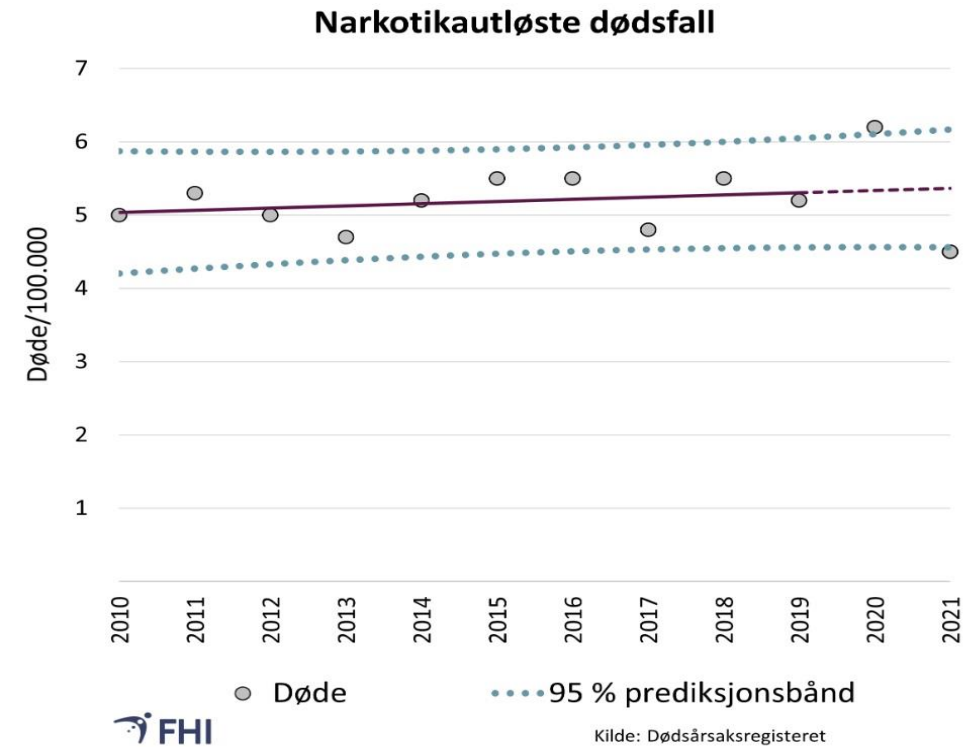
The Norwegian situation 2



73 overdose deaths per million*

Traditionally associated w/

- Injecting
- Illicit substances
- Poly drug use
- Using while alone



<https://www.fhi.no/nettpub/narkotikainorge/konsekvenser-av-narkotikabruk/narkotikautloste-dodsfall/>

The Norwegian situation 2

- 73 overdose deaths per million*. Relatively stable last decade

Traditionally associated w/

- Injecting
- Illicit substances
- Poly drug use
- Using while alone

However,

Characteristical diversity among those dying

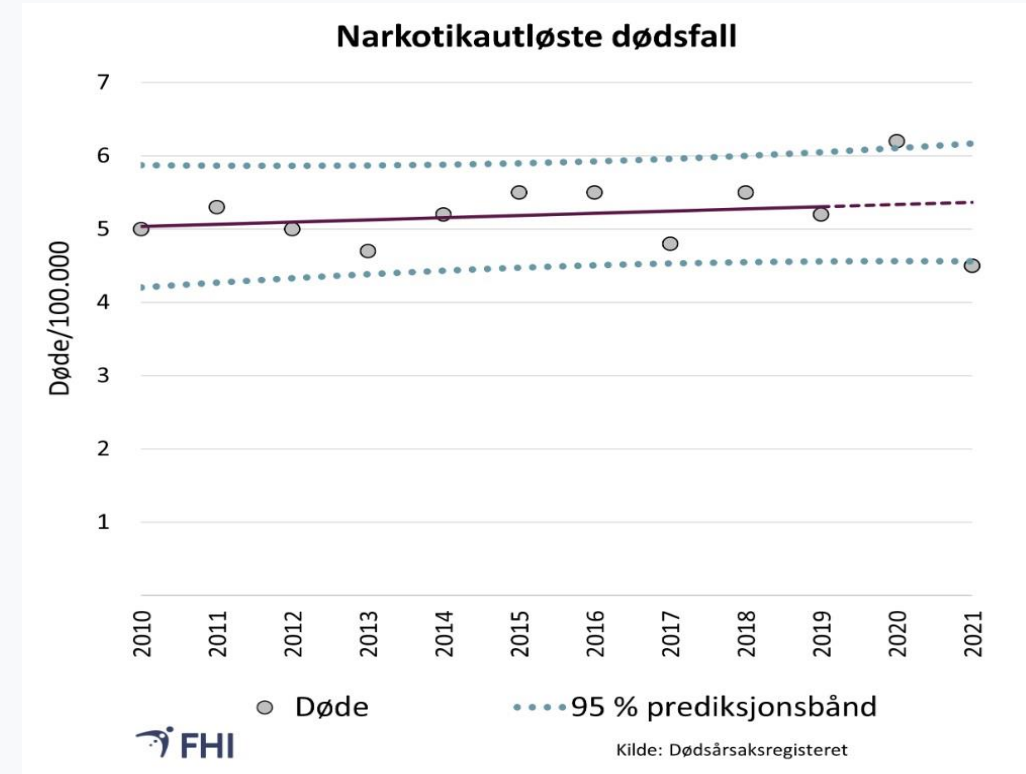
Gjersing, L., Jonassen, K.V., Biong, S., Ravndal, E., Waal, H., Bramness, J.G., Clausen, T., 2013. Diversity in causes and characteristics of drug-induced deaths in an urban setting. *Scand. J. Public Health* 41 (2), 119–125



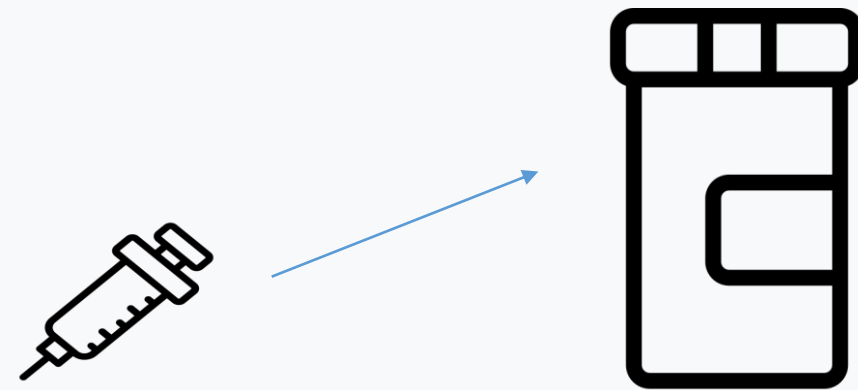
and gradual shift in terms of substances causing deaths

Illicit substances decreasing, medical opioids increasing

Edvardsen, H.M.E., Clausen, T., 2022. Opioid related deaths in Norway in 2000–2019. *Drug Alcohol Depend.* 232, 10928



<https://www.fhi.no/nettpub/narkotikainorge/konsekvenser-av-narkotikabruk/narkotikautloste-dodsfall/>



Concluding remarks

Current opioid users are a suitable target group for THN-programs

↳ Regular bystanders of others overdosing, and willing and capable to intervene effectively

↳ further, may profit on the OPEND as risk factors are common

↳ *However, THN should also be available to other relevant user groups like prescription opioid users, in addition to the at-risk population described in this data set – a need for continuous adaptations*



Thank you

Supervisors and co-authors

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Philipp Lobmaier

Thomas Clausen

Project coordinators

Åse Merete Solheim

Turi Traaen

Participants, staff members and naloxone ninjas across Norway!



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