

How do we understand the epidemiology of induced abortion and use of contraception – moral issues and facts

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<https://telorceplokblog.files.wordpress.com/2010/03/bayi2.jpg>



	Average number of countries per year	Abortion rate (90% UI)
Prohibited altogether or to save a woman's life†	58	37 (34–51)
Physical health	34	43 (40–53)
Woman's mental health	19	33 (27–49)
Socioeconomic grounds	10	31 (23–47)
On request	63	34 (29–46)

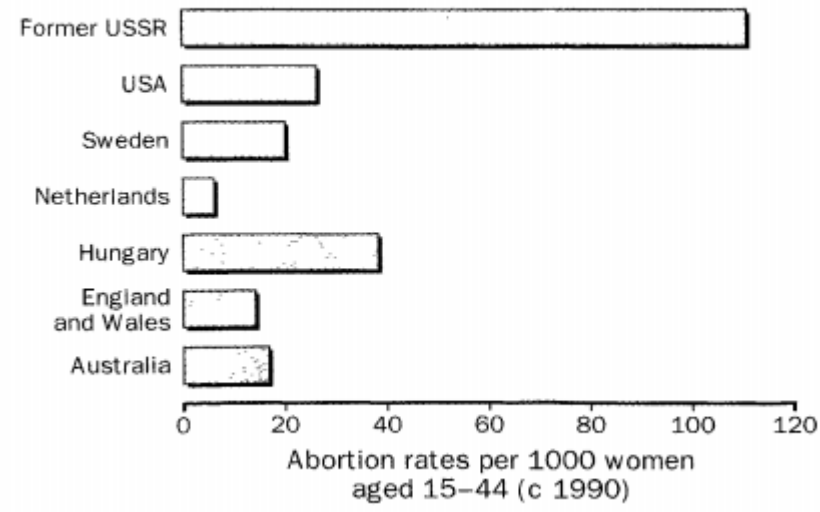
UI=uncertainty interval.* Gestational limits, authorisation requirements, waiting periods, and other conditions for legal abortions vary across countries in all categories. †Includes countries where abortion is also allowed in cases of rape or incest.

Table 4: Abortion rate per 1000 women aged 15–44, by grounds under which abortion is legally allowed, 2010–14*

How do we understand the concepts of:

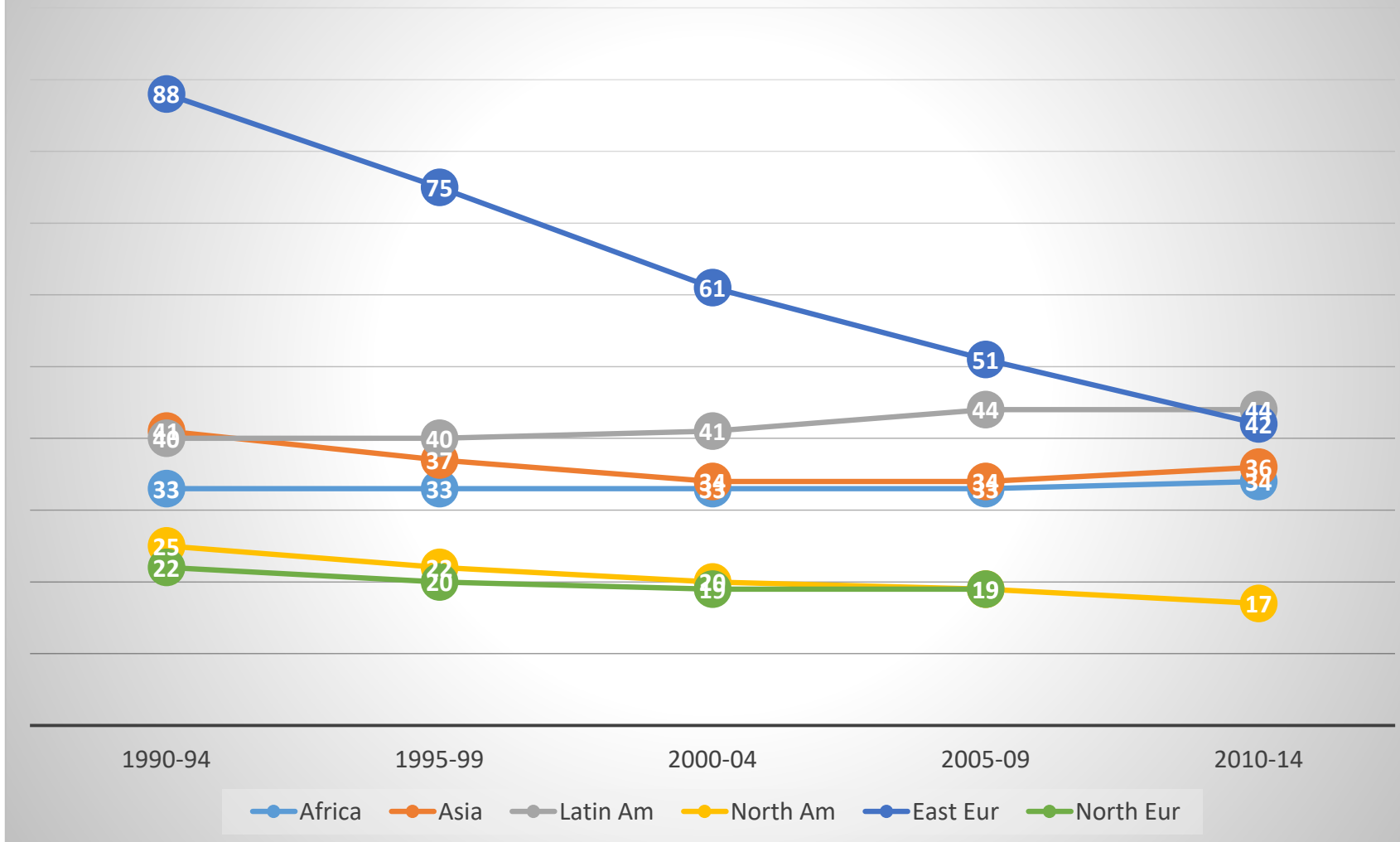
- Abortion rate
- Abortion ratio
- Contraceptive efficacy
- Lifephases
- Ethics

Abortion rates per 1000 women aged 14-44 years - 1990



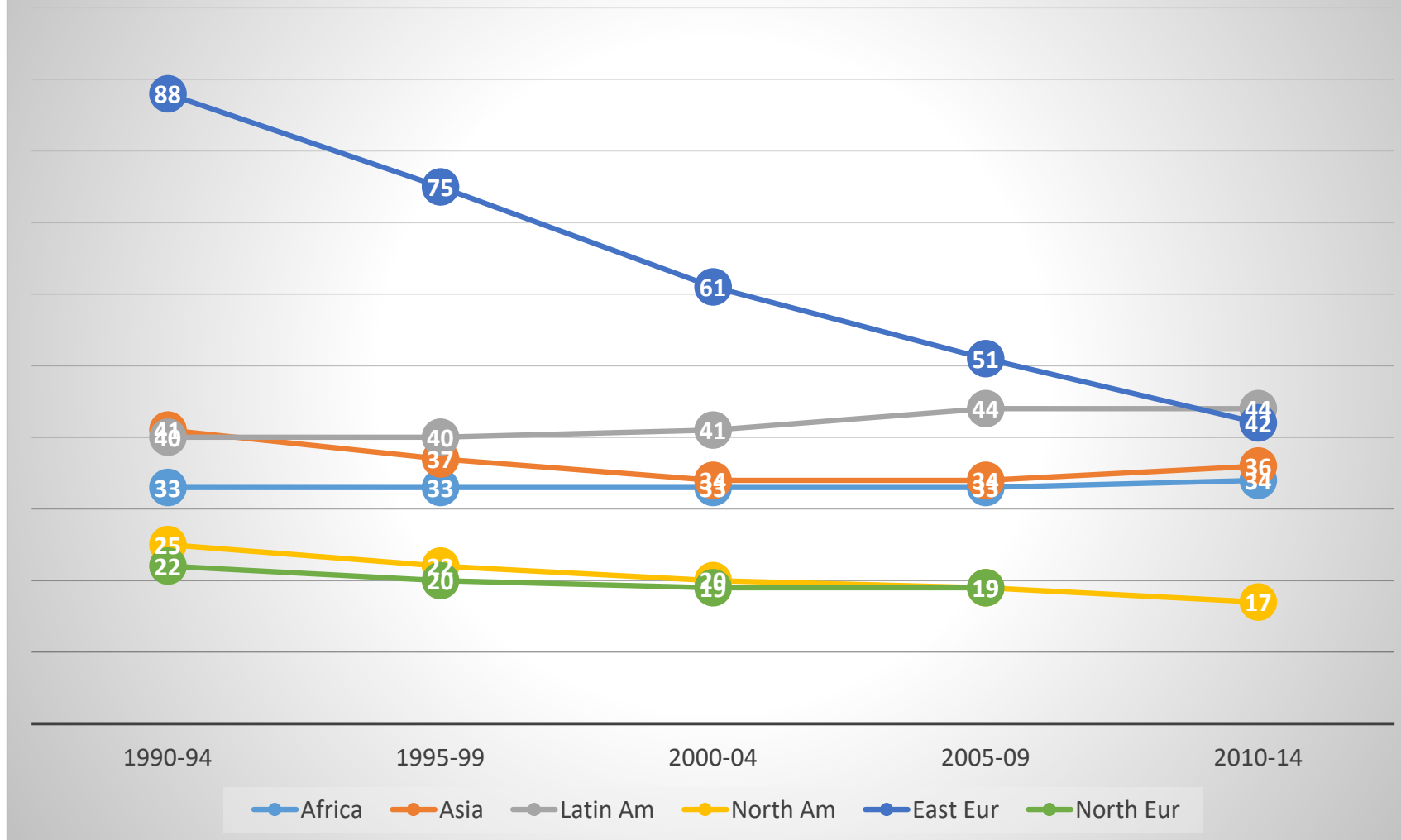
Kulczycki A, Potts M, Rosenfield A. Abortion and fertility regulation. Lancet 1996;347:1663-8

Abortion rates per 1 000 women 15-44 years old



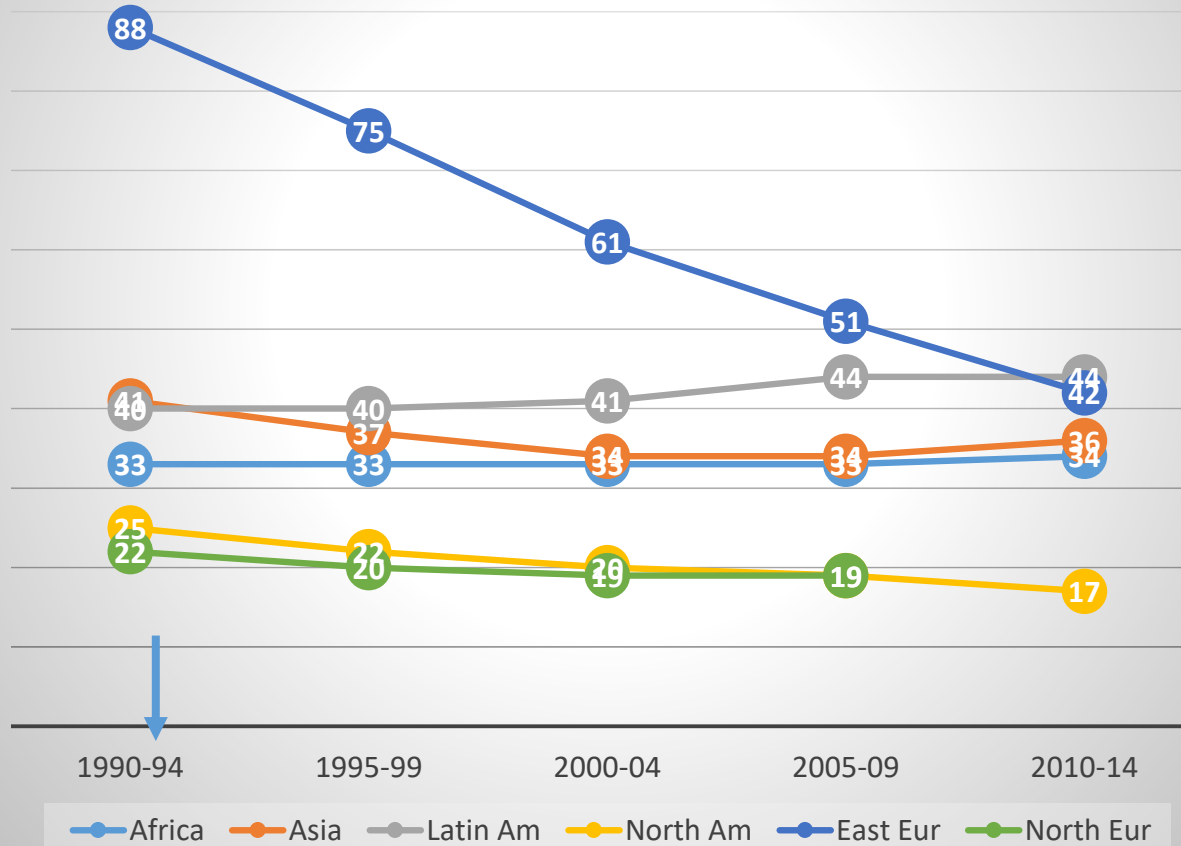
Sedgh G, Bearka J, Singh S et al. Abortion incidence between 1990 and 2014: global, regional, and subregional levels and trends. Lancet 2016;388:258-67.

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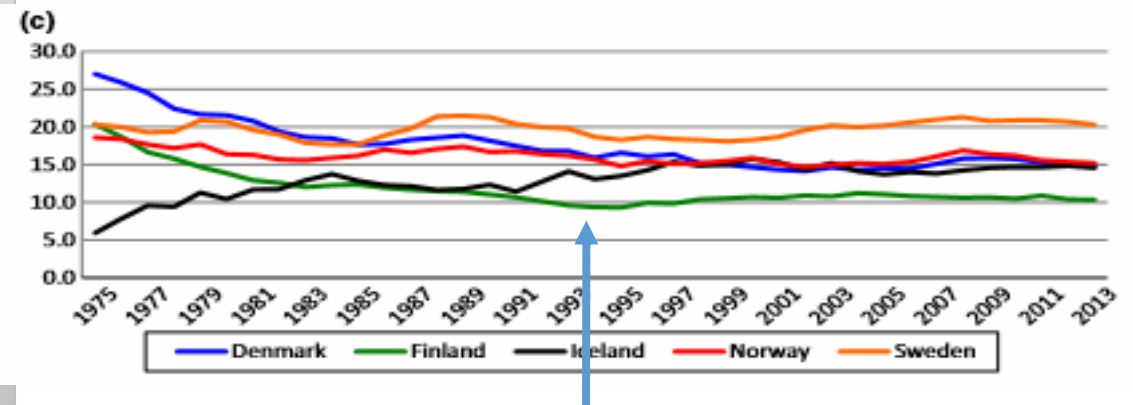
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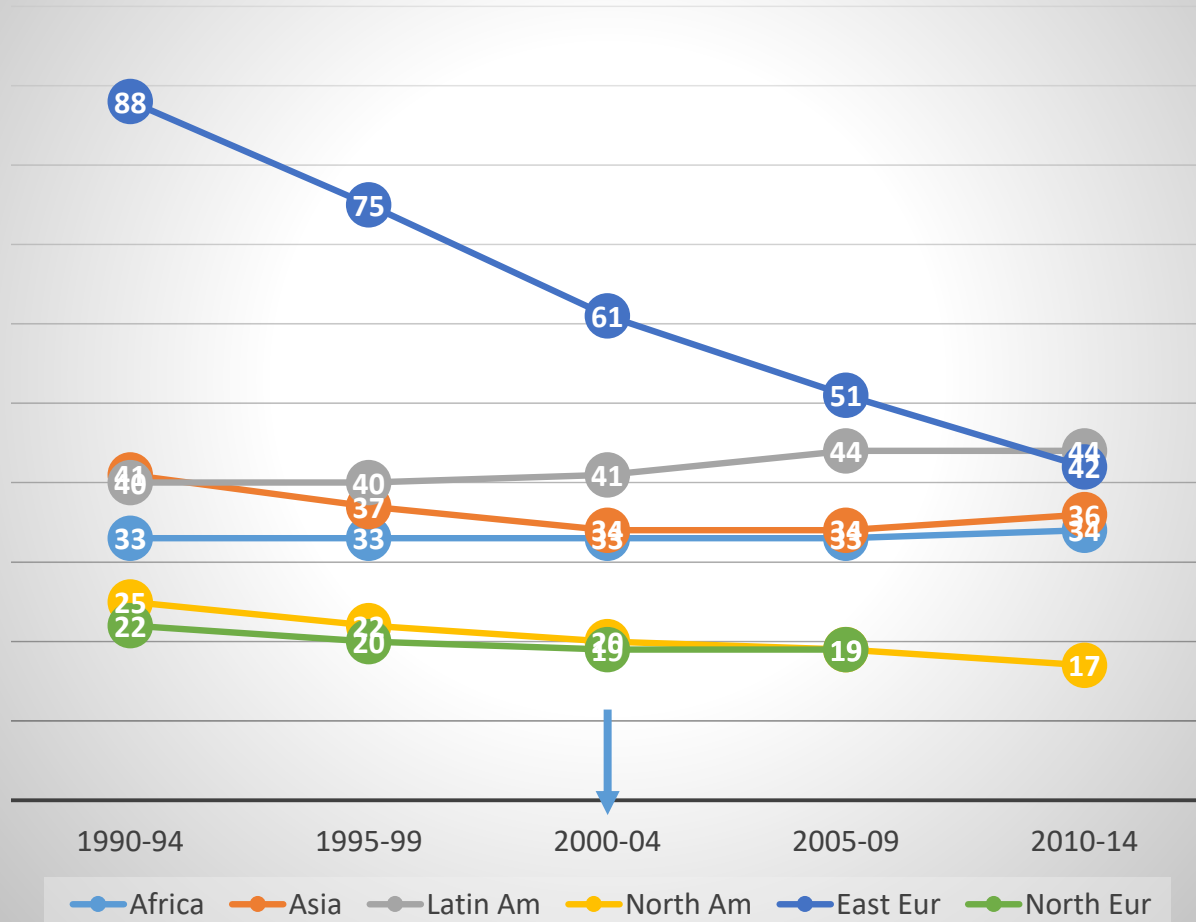
Abortion rate – what do we measure?

- Availability of contraception
- Use of contraception



Hognert H, Skjeldestad FE, Gemzell-Danielsson K, Hognert H, Heikinheimo O, Milsom I, Lidegaard Ø & Lindh I. High birth rates despite easy access to contraception and abortion – the Nordic perspective
Acta Obstet Gynecol Scand 2017. DOI: 10.1111/aogs.13232

Abortion rates per 1 000 women 15-44 years old

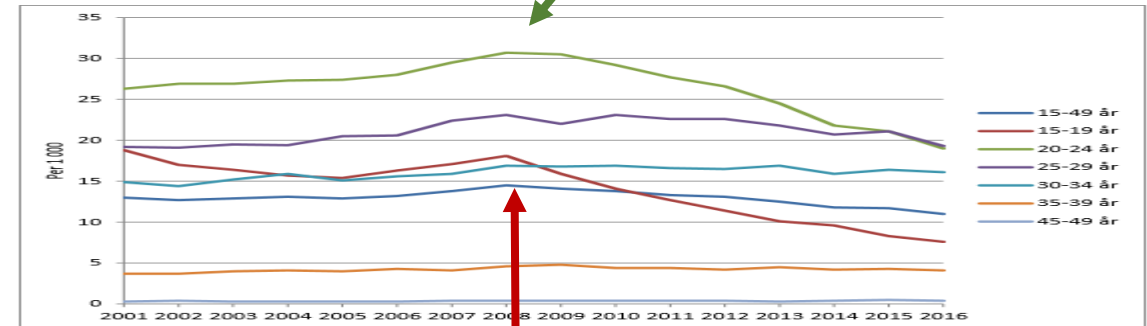


- Availability of contraception
- Use of contraception

- High / low abortion rates?

5. Figurar og tabellar

Figur 1. Utførte svangerskapsavbrot per 1 000 kvinner etter kvinne sin alder 2001-2016



Tabell 1. Utførte svangerskapsavbrot etter kvinne sin alder 1980-2016²



Decision-making and fertility – awareness of becoming pregnant

Lifephase A	Do not plan having children	Use contraception ?	Unpregnant state	Pop. level	Ab-rate
Lifephase B	Uncertain about having children	Use no or less effective methods	Unpregnant state	Pop. level	Ab-rate
Lifephase C	Planning children	Use no methods	Becomes pregnant	Pop. level	Ab-rate

Abortion rates by marital status


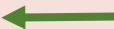

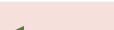

	Unmarried women (90% UI)	Married women (90% UI)
World	25 (20–42)	36 (32–53)
Developed countries	18 (15–25)	33 (29–51)
Developing countries	27 (21–48)	37 (32–55)
Africa	36 (30–55)	26 (25–50)
Asia	23 (14–50)	38 (29–59)
Latin America region	28 (16–59) 	49 (34–89)
Northern America	20 (16–24) 	14 (11–18)
Europe	16 (13–26) 	38 (33–55)
Oceania	20 (11–33) 	15 (9–35)

Table 5: Abortion rates per 1000 women aged 15–44 years in groups of women defined by marital status, 2010–14

Norway		
	Unmarried	Married
1979–1983	23.1	10.9
1989–1993	23.3	8.3 
1999–2003	20.1	7.6
2012	16.6	9.1

Sedgh G, Bearka J, Singh S et al. Abortion incidence between 1990 and 2014: global, regional, and subregional levels and trends. *Lancet* 2016;388:258–67.

Contraceptive failure rates – typical use, perfect use, 12-month compliance

	Typical use	Perfect use	12-mo compliance
None	85	85	
Spermicides, only	29	18	42
Coitus interruptus (Withdrawal)	27	4	43
Periodic abstinence (safe periods)	25		51
Calendar method	9		
Ovulation method (LH)	3		
Temperature	2		
Diaphragm with spermicides	16	6	57
Condom			
for women	21	5	49
men	15	2	53
OCs/gestagen pill/patch/contraceptive ring	8	0.3	68
Contraceptive injectables	3	0.3	56
Implants	0.05	0.05	81
Copper IUDs	0.8	0.6	78
LNG-IUD	0.05	0.06	81
Sterilization			
female	0.5	0.5	100
men	0.15	0.10	100

Trussel J. Contraceptive efficacy (US data)
 In: Hatcher RA et al. Contraceptive Technology, NY:Arden Media 2004

Abortion rates by marital status


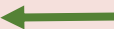

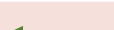
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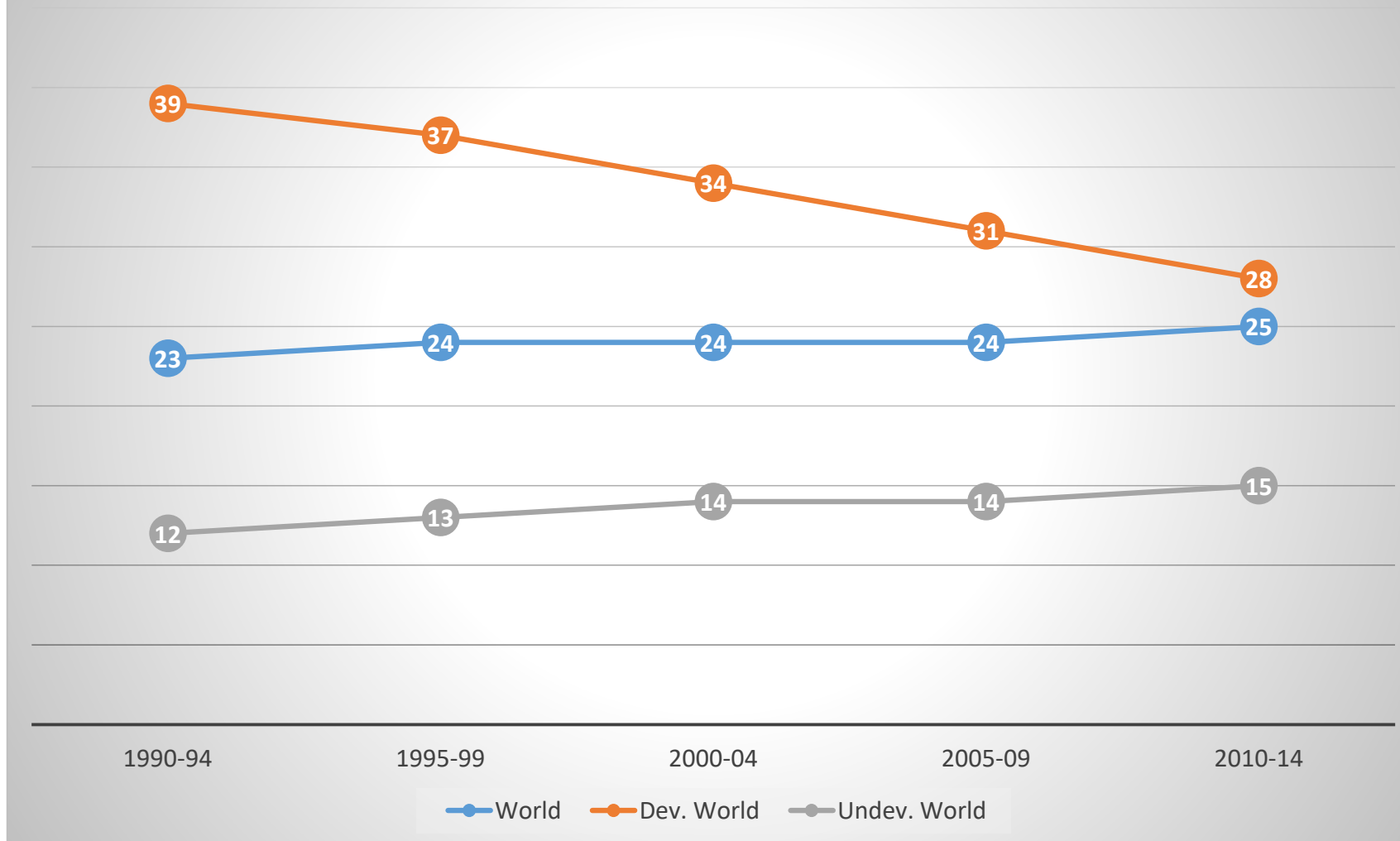
Failure rates (Per 1000 women-yr)		
	Condom - men	Copper IUDs
Perfect use	20	6.0
Typical use	150	8.0

- **High / low abortion rates?**

Decision-making and fertility – who suitable is it to become pregnant

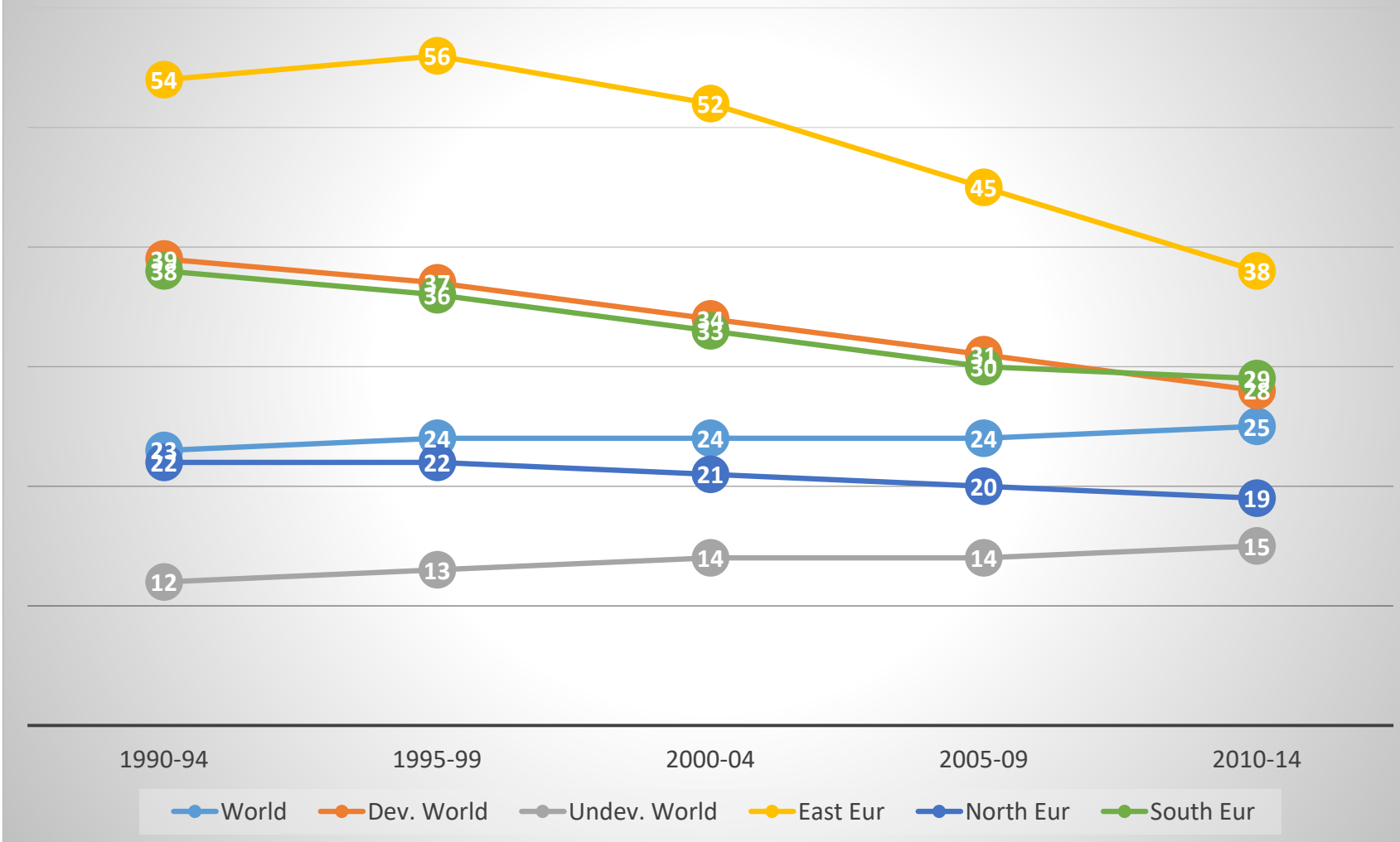
Lifephase A	Do not plan having children	Use contraception ?	Unpregnant state	Pop. level	Ab-rate
		Pregnancy failure or ?	New decision	Pop. of pregnant w.	Abortion ratio
Lifephase B	Uncertain about having children	Use no or less effective methods	Unpregnant state	Pop. level	Ab-rate
		Becomes pregnant	New decision	Pop. of pregnant w.	Abortion ratio
Lifephase C	Planning children	Use no methods	Becomes pregnant	Pop. level	Ab-rate
			Very few with a new decision	Pop. of pregnant w. (denominator)	Abortion ratio

Pregnancies ending in induced abortion (%)



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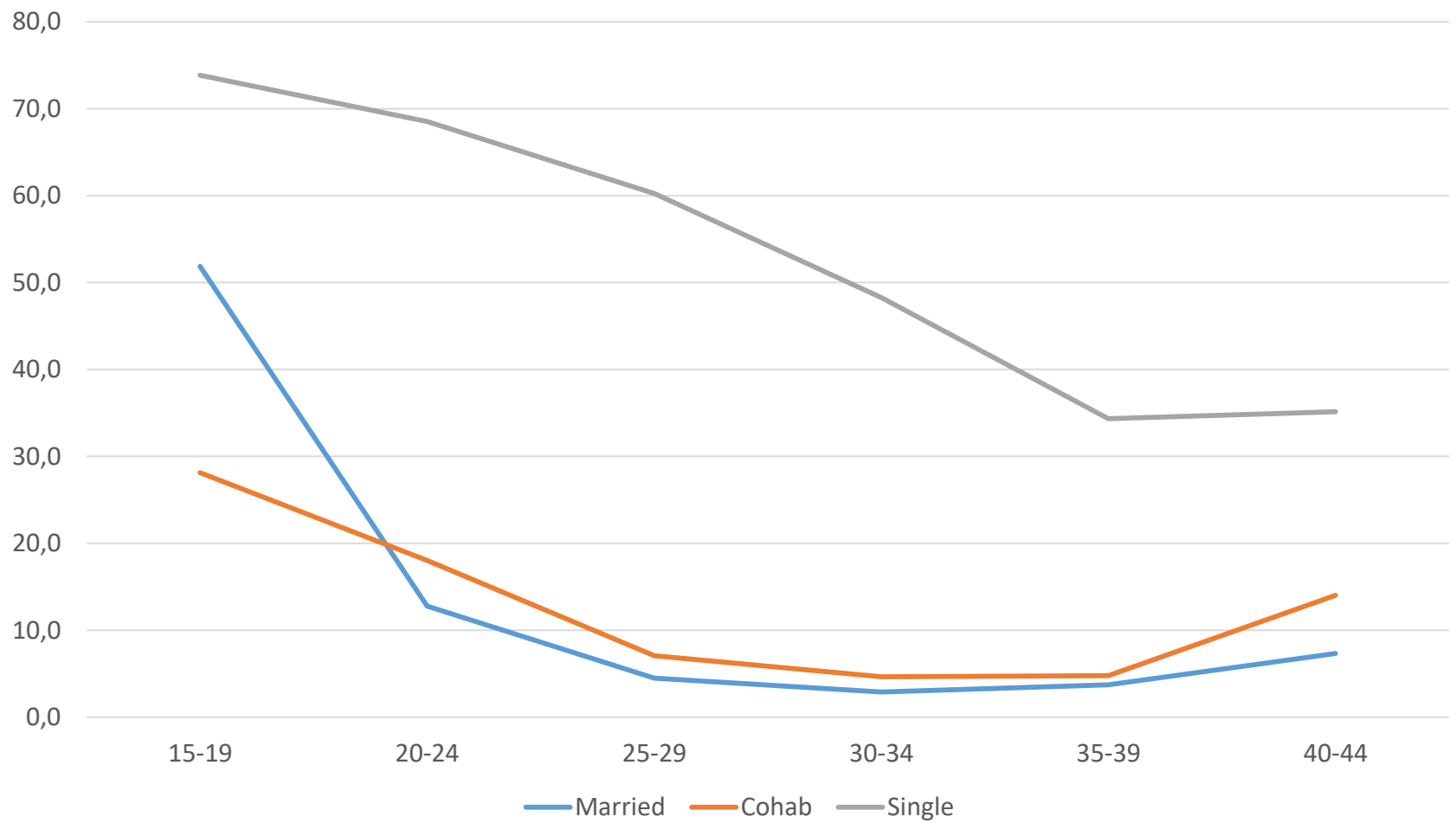
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Preparedness for becoming parent(s)

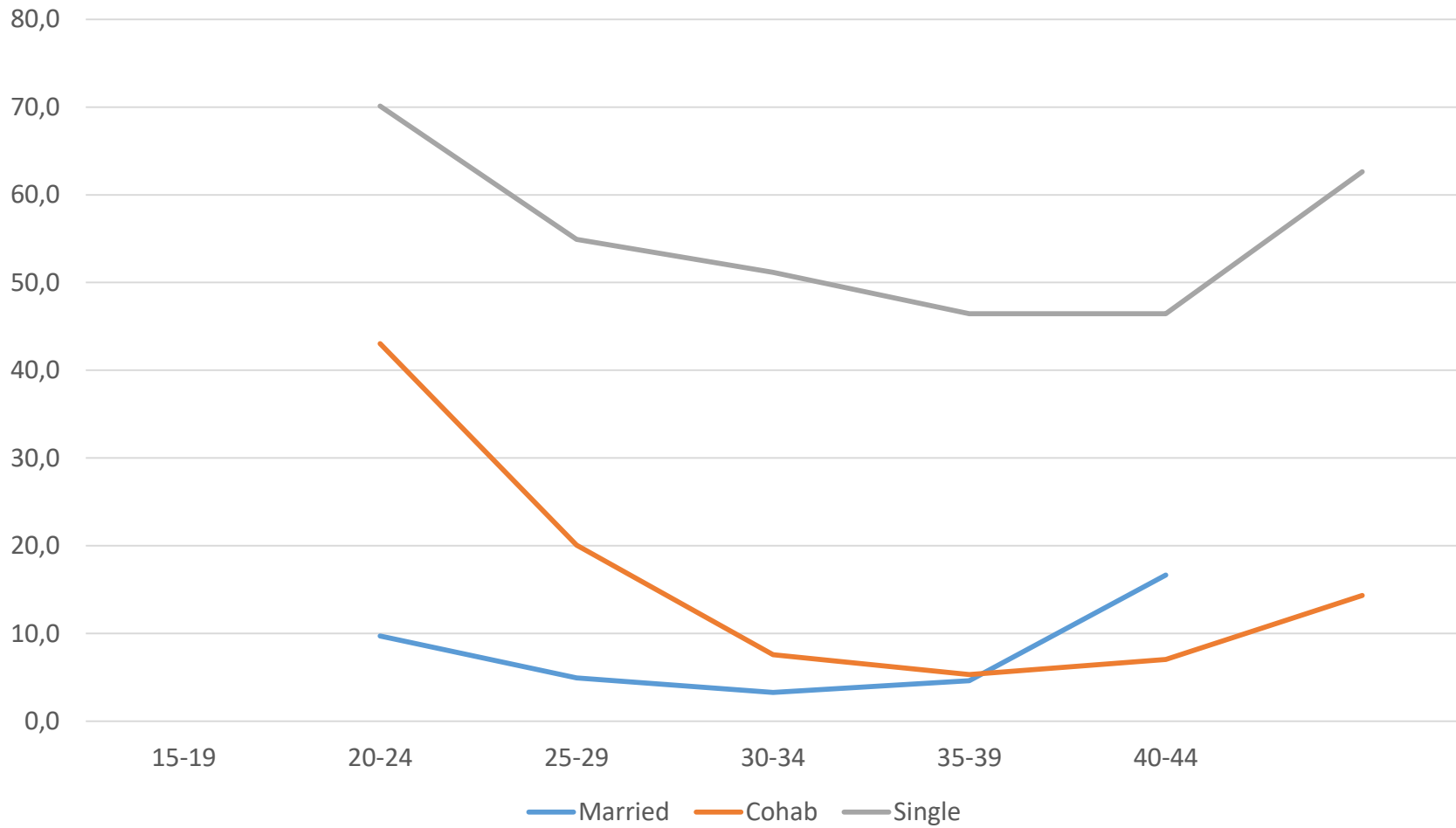
Abortion ratio

- marital status**
- age**
- parity**

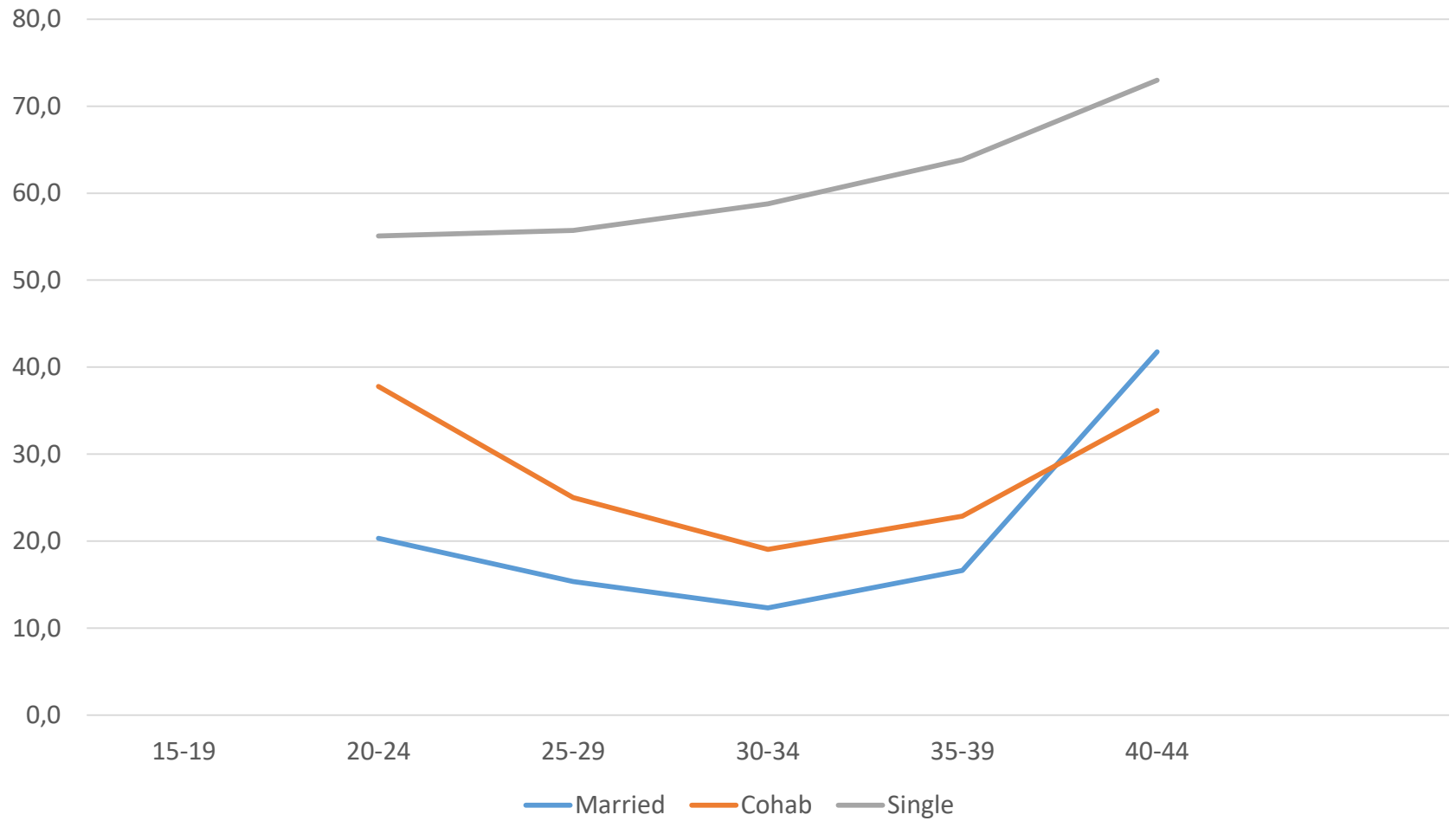
Proportion pregnancies terminated by induced abortion (%) Para-0 women, Norway 2008



Proportion pregnancies terminated by induced abortion (%)
Para-1 women, Norway 2008



Proportion pregnancies terminated by induced abortion (%)
Para 2 women, Norway 2008

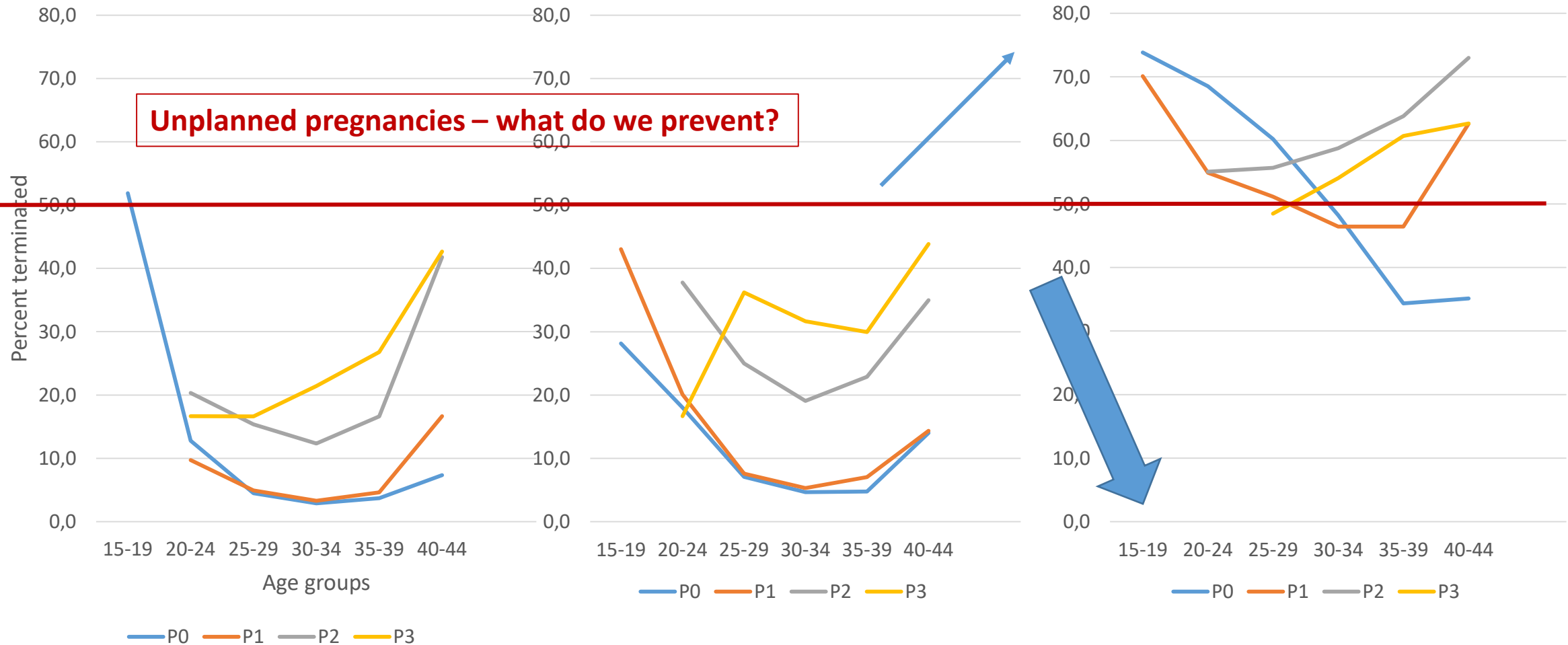


Married women

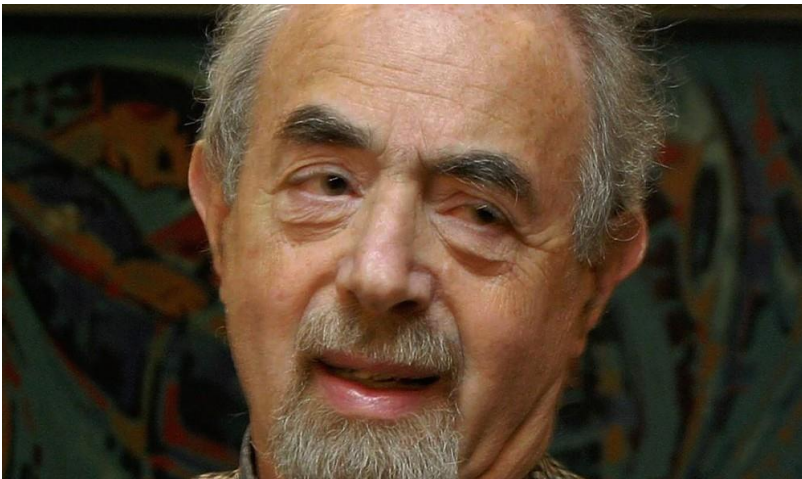
Cohabiting women

Single women

Unplanned pregnancies – what do we prevent?



Proportion of women terminating their pregnancy by age, parity and marital status, Norway 2008 (Ind. Ab./ind. Ab.+births)



Første doktorgrad i abort epidemiologi i Norge (1973)
«Kvinner og abort»

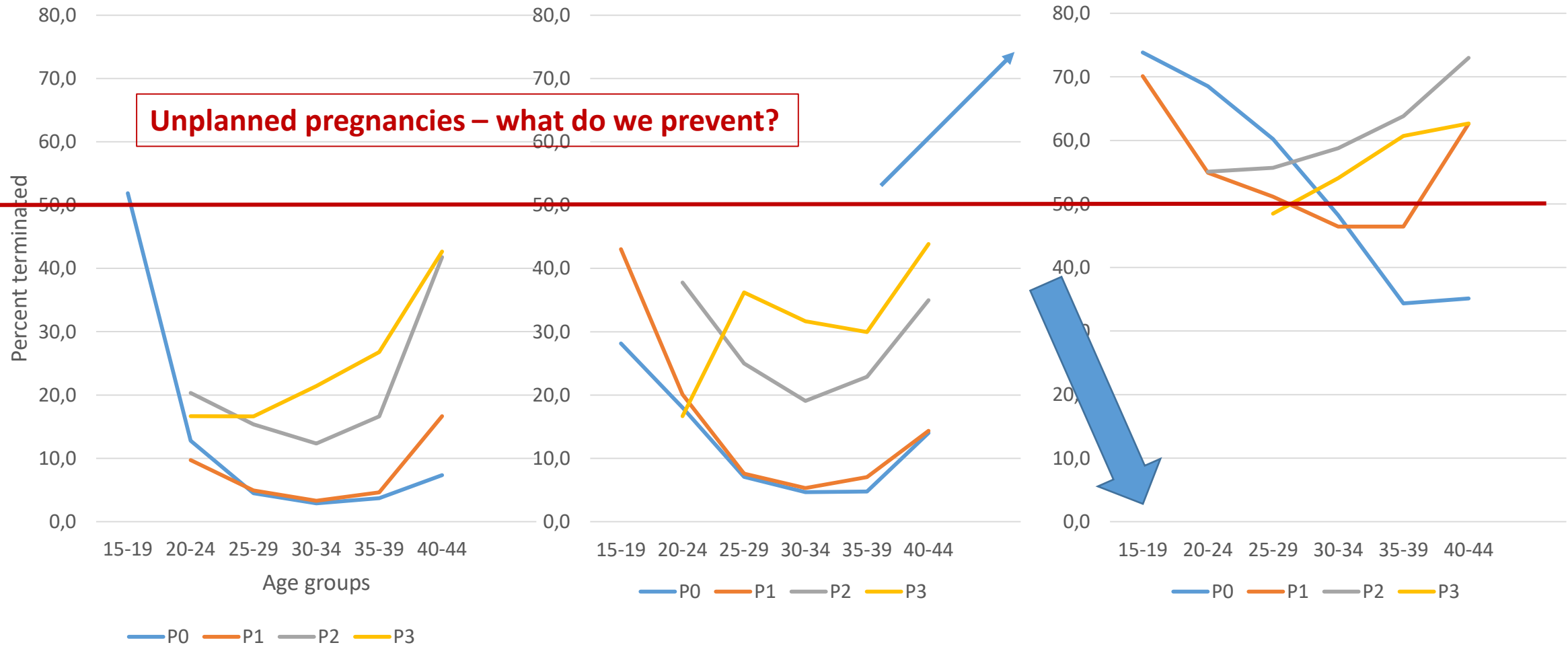
«Da vi forebygger uplanlagte svangerskap forebygger vi fødsler i langt større grad en svangerskapsavbrutt - hvor høye aborttall kan Norge godta for at fødselstallene skal bli høyere?»

Married women

Cohabiting women

Single women

Unplanned pregnancies – what do we prevent?



Proportion of women terminating their pregnancy by age, parity and marital status, Norway 2008 (Ind. Ab./ind. Ab.+births)

Decision-making and fertility – who suitable is it to have children?

Lifephase A	Do not plan having children	Use contraception ?	Unpregnant state	Pop. level	Ab-rate
		Pregnancy failure or ?	New decision	Pop. of pregnant w.	Abortion ratio
Lifephase B	Uncertain about having children	Use no or less effective methods	Unpregnant state	Pop. level	Ab-rate
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			Very few with a new decision	Pop. of pregnant w. (denominator)	Abortion ratio

Induced abortion is politics

- Epidemiology/sociology

- Ethical issues do not change

- Abortion rate/ratio
- Decisions
- Medical interventions/complications
- Subsequent fertility

- Abortion on demand
- The right of the foetus to natural growth and maturation
 - From conception/from gestational week ?



<https://telorceplokblog.files.wordpress.com/2010/03/bayi2.jpg>

