

Appendix : How Religious Affiliation and Religiosity Shape Attitudes Toward Medically Assisted Reproduction in Switzerland

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Overview 1. English wording of the questions on religious variables	1
Remark 1. Note on pre-tests with a focus on MAR procedures	2
Table A1. Mean values of dependent variables by religious affiliation	2
Table A2. Frequency of individual MAR procedures	3
Table A3. Moral acceptance of individual MAR procedures. Results of linear regressions	4

Overview 1. English wording of the question on religious variables.

How spiritual or religious are you?

- | <i>Spiritual</i> | <i>Religious</i> |
|------------------------------------|------------------------------------|
| ☐ Not at all | ☐ Not at all |
| ☐ Not really | ☐ Not really |
| ☐ Somewhat | ☐ Somewhat |
| ☐ Very | ☐ Very |
| ☐ I don't know | ☐ I don't know |

What part did spirituality or religion play in your childhood?

- ☐ None
- ☐ A small part (e.g. only a few special occasions involved the church / religion / spirituality)
- ☐ A medium part
- ☐ A big part (part of everyday life)
- ☐ I don't know

How often have you prayed or meditated in the last 12 months?

- | <i>Prayed</i> | <i>Meditated</i> |
|---|---|
| ☐ Several times a day | ☐ Several times a day |
| ☐ Daily or nearly daily | ☐ Daily or nearly daily |
| ☐ At least once a week | ☐ At least once a week |
| ☐ At least once a month | ☐ At least once a month |
| ☐ At least every two months | ☐ At least every two months |
| ☐ At least once | ☐ At least once |
| ☐ Never | ☐ Never |
| ☐ I don't know | ☐ I don't know |

Do you belong to a religious community?

- ☐ Yes
- ☐ No => *Please continue with question XX*

What religious community do you belong to?

(Multiple answers possible.)

- ☐ Christian
- ☐ Muslim
- ☐ Jewish
- ☐ Hindu
- ☐ Buddhist
- ☐ Other religious community, namely: _____

Please only fill in this question if you belong to a Christian religious community.

Now we'd like a little more detail. What Christian community do you belong to?

- ☐ Catholic community or Roman Catholic church
- ☐ Protestant community or Swiss Reformed churches
- ☐ Evangelical churches or free churches
- ☐ Other Christian communities

Remark 1. Note on pre-tests with a focus on MAR procedures.

Numerous pre-tests were conducted in advance to test the comprehensibility and user-friendliness of the questionnaire (online and in paper format). The revised questionnaire that resulted was generally considered to be comprehensible. The length of the explanations of the various MAR procedures was also considered, as the questionnaire was already extensive in some cases.

Table A1. Mean values of dependent variables by religious affiliation.

	None	Catholic	Protestant	Evangelical	Other Christian	Muslim
Index MAR procedures (0-36)	22.1	18.3	18.5	12.6	16.3	12.9
Index MAR without 3rd party involvement (0-16)	11.0	9.6	9.6	7.3	8.9	7.7
Index MAR with 3rd party involvement (0-16)	9.4	7.5	7.7	4.7	6.3	4.2
Artificial insemination (0-4)	3.2	3.0	3.1	2.5	2.8	2.6
In vitro fertilization (IVF) (0-4)	2.9	2.6	2.7	1.9	2.3	2.1
Sperm donation (0-4)	2.8	2.4	2.4	1.5	1.9	1.4
Egg donation (0-4)	2.7	2.2	2.3	1.4	1.9	1.2
Embryo donation (0-4)	2.0	1.5	1.4	0.9	1.3	0.9
Surrogacy (0-4)	2.0	1.5	1.5	1.0	0.9	0.9
Egg Freezing (0-4)	2.8	2.4	2.4	1.8	2.2	1.7
Embryo Freezing (0-4)	2.0	1.6	1.4	1.1	1.5	1.3
Preimplantation genetic testing (PGT) (0-4)	1.7	1.2	1.2	0.7	1.1	0.9
N	1,975	858	571	113	48	34

Source: CHARLS, wave 1, unweighted.

Table A2. Frequency of individual MAR procedures.

	Insemination	IVF	Sperm Donation	Egg donation	Embryo Donation	Surrogacy	Egg freezing	Embryo Freezing	PGT
<i>Moral Acceptance</i>									
0- Not at all	4.5	8.7	9.6	11.7	25.4	24.1	10.9	28.8	34.9
1	5.2	10.4	12.1	12.8	20.9	22.3	11.8	17.5	20.3
2	16.5	18.7	21.9	24.2	25.5	24.1	18.5	20.6	22.4
3	22.0	21.8	22.8	22.3	13.3	16.1	21.1	13.3	11.0
4- Perfectly acceptable	51.8	40.3	33.7	29.1	14.9	13.5	37.7	19.8	11.4
N	3,599	3,599	3,599	3,599	3,599	3,599	3,599	3,599	3,599

Source: CHARLS, wave 1, unweighted.

Table A3. Moral acceptance of individual MAR procedures. Results of linear regressions.

	Insemination	IVF	Sperm Donation	Egg donation	Embryo Donation
Gender					
Woman (ref.)					
Man	-0.24***	-0.28***	-0.02	-0.03	0.02
Age (centr.)	-0.01***	-0.01***	-0.01***	-0.02***	-0.01***
Residency area					
Large cities	0.10*	0.10	0.03	0.03	0.09
Suburban areas	0.14*	0.13	0.06	0.10	0.01
Smaller towns (ref.)					
Rural areas	-0.01	-0.03	-0.07	-0.05	-0.05
Education					
Basic	0.00	-0.02	-0.12	-0.03	0.09
Voc. training (ref.)					
Upper sec.	0.25***	0.31***	0.12	0.15*	0.07
Professional	0.15*	0.19**	0.05	0.08	-0.14*
Tertiary	0.35***	0.40***	0.25***	0.24***	0.05
Higher tert.	0.54***	0.68***	0.37***	0.43***	0.29***
Use of MAR					
No/DNA (ref.)					
Yes	0.51***	0.58***	0.30***	0.29***	0.36***
Religious affiliation					
None (ref.)					
Catholic	0.04	0.04	-0.05	-0.09	-0.16**
Protestant	0.12*	0.14*	0.01	-0.06	-0.15*
Evangelical	-0.15	-0.31*	-0.55***	-0.59***	-0.52***
Other Christian	0.16	0.15	-0.21	-0.08	-0.06
Muslim	-0.27	-0.33	-0.89**	-1.00***	-0.76**
Role religion childhood					
None	-0.09	-0.13*	0.07	0.00	-0.03
Small part (ref.)					
Medium part	0.02	-0.03	-0.05	-0.02	-0.01
Big part	-0.07	-0.03	-0.17*	-0.16*	-0.13
Religiosity					
Not at all (ref.)					
Not very	-0.14**	-0.11	-0.12*	-0.08	-0.12
Somewhat	-0.19**	-0.22**	-0.27***	-0.21**	-0.23**
Very	-0.56***	-0.70***	-0.73***	-0.80***	-0.56***
Frequency praying					
Never (ref.)					
Once per year	-0.02	-0.05	0.02	-0.02	-0.12
Every two months	-0.01	0.01	0.08	0.05	-0.04
Once per week	-0.20*	-0.31**	-0.23*	-0.34***	-0.39***
Daily	-0.36***	-0.45***	-0.43***	-0.38***	-0.36***
Intercept	3.12***	2.77***	2.75***	2.58***	1.98***
R ²	0.14	0.16	0.17	0.19	0.15
AIC	10599.08	11617.54	11553.7	11604.97	11941.11
BIC	10766.17	11784.63	11720.79	11772.06	12108.19
N	3,599	3,599	3,599	3,599	3,599

	Surrogacy	Egg Freezing	Embryo Freezing	PGT
Gender				
Woman (ref.)				
Man	-0.02	-0.15***	0.08	0.12**
Age (centr.)	-0.01***	-0.02***	-0.02***	-0.01***
Residency area				
Large cities	0.17*	0.09	0.13	0.23**
Suburban areas	0.11	0.25**	0.13	0.08
Smaller towns (ref.)				
Rural areas	-0.08	-0.09	-0.04	-0.07
Education				
Basic	0.08	0.10	0.28*	0.25
Voc. training (ref.)				
Upper sec.	0.02	0.05	0.06	0.04
Professional	-0.04	0.02	-0.23**	-0.07
Tertiary	-0.08	0.17*	-0.07	0.07
Higher tert.	0.02	0.32***	0.15*	0.39***
Use of MAR				
No/DNA (ref.)				
Yes	0.32***	0.49***	0.57***	0.51***
Religious affiliation				
None (ref.)				
Catholic	-0.19**	-0.07	-0.18**	-0.13*
Protestant	-0.12	-0.05	-0.31***	-0.15*
Evangelical	-0.51***	-0.43**	-0.40**	-0.46***
Other Christian	-0.20	-0.01	-0.05	-0.05
Muslim	-0.86***	-0.79**	-0.53*	-0.48*
Role religion childhood				
None	0.06	-0.03	-0.12	0.01
Small part (ref.)				
Medium part	0.01	-0.03	0.01	-0.01
Big part	-0.08	-0.15*	-0.18*	-0.18**
Religiosity				
Not at all (ref.)				
Not very	-0.02	-0.05	-0.09	-0.24***
Somewhat	-0.13	-0.14	-0.09	-0.25**
Very	-0.42***	-0.52***	-0.34*	-0.34**
Frequency praying				
Never (ref.)				
Once per year	-0.04	-0.08	-0.13	-0.01
Every two months	-0.04	0.00	-0.06	0.04
Once per week	-0.25**	-0.35***	-0.33**	-0.15
Daily	-0.31***	-0.39***	-0.53***	-0.31***
Intercept	1.95***	2.81***	2.05***	1.55***
R ²	0.11	0.15	0.14	0.13
AIC	11995.8	11939.43	12581.65	11955.59
BIC	12162.89	12106.51	12748.74	12122.68
N	3,599	3,599	3,599	3,599

Notes: * p<0.05; ** p<0.01; *** p<0.001.

Source: CHARLS, wave 1, unweighted.