Hey! Cities! Leave them kids alone!

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Sunday 10th December, 2023 13:54

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We know that adults tend to be less happy in cities across the world (except in the poorest nations such as Sub-Saharan Africa) (Okulicz-Kozaryn and Valente 2021). But we do not know about the children.

1 Happiness in Kids

TODO: write sth about happness in kids; btw looks like they used normal happiness question; not smileys

2 Data

We use 2018 pisa from url. Age is 15 to 16.3, so not kids kids but more like little adolescents.

Urbanicity is recorded in School questionnaire administered to school principals:

Which of the following definitions best describes the community in which your school is located?

- A village, hamlet or ruralarea (fewer than 3 000 people)
- A small town (3 000 to about 15 000 people)
- A town (15 000 to about 100 000 people)
- A city (100000 to about 1 000 000 people)
- A large city (with over 1 000 000 people)

A nice feature of PISA data is that there are large cities, lt1m, in wvs for instacne the top bin is only 500k. And it is missing for only 6 percent of observations.

a limitation is that we do not see a good health variable–exisiting ones are missing for vast majroity. Health is of course a key happiness predictor, but arguably less imoportant for kids as they are healthier than adults.

lots of boilerplate here

varDes

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I thank XXX. All mistakes are mine.

3 Results

The differences are large–about .5 on 0-10 SWB scale. And in a1-a3[1] there is a big difference between the largest cities (gt1m) and everything else just as for adults (Okulicz-Kozaryn 2016). But interestingly, not necessarily like adults, there is also a large gap between lt3k and 3-15k, again especially in models a1-a3, perhaps in the open country there are best outdoor play opportunities for the kids.

As in adults (Okulicz-Kozaryn and Valente 2021), addition of income/wealth makes results stronger–income/wealth confounds with urbanicity.

In full model a4 results are strong, beta (fully standardized; not shown) for gt1m is 65 percent of wealth.

Finally we split by gender in a4m and a4f–interestingly city penaly higher for female; arguably because fem more affected by urban crime

Table 1: OLS regressions of life satisfaction.

	a1	a2	a3	a4	a4f	a4m
lt3k	0.00	0.00	0.00	0.00	0.00	0.00
3-15k	-0.34***	-0.38***	-0.37***	-0.19***	-0.21***	-0.16***
15-100k	-0.37***	-0.41***	-0.41***	-0.25***	-0.30***	-0.20***
100k-1m	-0.44***	-0.47***	-0.49***	-0.40***	-0.45***	-0.34***
gt1m	-0.61***	-0.65***	-0.67***	-0.46***	-0.53***	-0.37***
Family wealth (WLE)		0.07***	0.05***	0.21***	0.20***	0.21***
female			-0.40***	-0.39***	0.00	0.00
What is the ¡highest level of schooling¿ completed by your father?			-0.03***	-0.02***	-0.02***	-0.02**
constant	7.63***	7.70***	7.97***	9.34***	9.15***	9.14***
N	471551	470216	452931	452931	228834	224097
*p<0.05 **p<0.01 ***p<0.001						

[1]Not in a4 controling for country dummies.

	lt3k	3-15k	15-100k	100k-1m	gt1m	N
ALB	0.0	-0.0	-0.2*	-0.3*	-0.2	5916
ARE	0.0	-0.4*	-0.7*	-0.8*	-1.2*	16145
ARG	0.0	-0.1	-0.2	-0.3*	-0.2	9409
AUT	0.0	-0.1	0.0	-0.0	-0.4*	6090
BGR	0.0	-0.4	-0.4	-0.7*	-0.7*	4215
BIH	0.0	-0.0	-0.1	-0.3+		5901
BLR	0.0	-0.2*	-0.0	-0.4*	-0.7*	5404
BRA	0.0	-0.0	-0.2	-0.5*	-0.4+	7851
BRN	0.0	-0.1	-0.1	-0.2+		6360
CHE	0.0	-0.1	-0.1	-0.1		5114
CHL	0.0	0.8*	0.3	0.2	0.2	6009
COL	0.0	0.2	-0.1	-0.3*	-0.5*	6460
CRI	0.0	-0.2+	-0.2*	-0.5*	-0.9*	6049
CZE	0.0	0.0	0.1	-0.0	-0.5*	6198
DEU	0.0	-0.0	0.0	-0.0	0.2	3322
DOM	0.0	0.1	0.1	-0.2	-0.2	3528
ESP	0.0	-0.3*	-0.3*	-0.5*	-0.3*	31904
EST	0.0	-0.2+	0.0	-0.1		4942
FIN	0.0	-0.1	-0.0	0.1		5203
FRA	0.0	-0.0	0.1	-0.0	0.4	5007
GBR	0.0	-0.1	-0.1	-0.2	0.1	9546
GEO	0.0	0.1	-0.1	-0.3*	-0.4*	4784
GRC	0.0	-0.1	-0.4*	-0.3*	-0.4*	5948
HKG	0.0	0.4	0.4	0.1	0.2	4078
HRV	0.0	0.6	0.7+	0.5	0.3	6289
HUN	0.0	-0.3	-0.5	-0.5	-0.6*	4801
IDN	0.0	-0.1	-0.2+	-0.3*	0.2+	9950
IRL	0.0	-0.3*	-0.3*	-0.1	-0.4*	5182
ISL	0.0	-0.0	0.0	-0.1		2915
ITA	0.0	-0.1	-0.3*	-0.3*	-0.5*	10478
JOR	0.0	-0.3*	-0.5*	-0.6*	-0.4*	8090
JPN		0.0	0.2	0.1	0.1	5669
KAZ	0.0	-0.2*	-0.4*	-0.9*	-0.7*	17919
KOR	0.0	-0.9*	-0.4	-0.6*	-0.6*	6450
KSV	0.0	-0.4*	-0.4*	-0.7*		4468
LBN	0.0	0.5*	0.4*	0.5*	1.0*	3999
LTU	0.0	-0.3*	-0.1	-0.4*		6084
LUX		0.0	-0.2+	-0.2*		4465
LVA	0.0	0.1	0.1	-0.0		4675
MAC	0.0			0.1		3707
MAR	0.0	-0.2	-0.5*	-0.4*	-0.6*	4846
MDA	0.0	-0.1	-0.1	-0.4*	-0.6*	4892
MEX	0.0	-0.1	-0.2+	-0.2+	-0.3*	5811
MKD	0.0	-0.5*	-0.7*	-0.7*	-0.8*	4391
MLT	0.0	0.1	-0.1			3030
MNE	0.0	-1.3*	-1.3*	-1.4*		6138
MYS	0.0	-0.0	-0.1	-0.5*	-0.5*	5853
NLD	0.0	-0.2	-0.1	-0.2		3514
PAN	0.0	0.3+	0.1	-0.2	-0.5*	3505
PER	0.0	-0.2+	-0.1	-0.3*	-0.5*	4855
PHL	0.0	0.3*	0.1	-0.1	-0.0	6142
POL	0.0	-0.2+	-0.2*	-0.2+	0.0	5274
PRT	0.0	-0.6*	-0.6*	-0.6*	-0.6*	5265
QAT	0.0	0.0	-0.1	-0.1	-0.3+	11765
QAZ	0.0	0.5	0.6	0.2	0.6	3664
QCI	0.0	-0.2	-0.1	-0.2+	-0.1	11923
QMR	0.0	-0.7*	-0.6*	-0.7*	0.1	1885
QRT	0.0	-0.4*	-1.0*	-1.0*	-1.0*	5293
ROU	0.0	0.3	0.2	0.1	0.1	4817
RUS	0.0	-0.5*	-0.7*	-0.7*	-1.0*	6587
SAU	0.0	-0.5*	-0.4*	-0.7*	-0.8*	5452
SRB	0.0	0.3	0.6	0.4	0.2	5832
SVK	0.0	0.0	-0.1	-0.4*		5162
SVN	0.0	-0.3	-0.2	-0.2		5473
TAP	0.0	-0.1	-0.1	-0.1	-0.2	6887
THA	0.0	-0.1+	-0.3*	-0.4*	-0.6*	8279
TUR	0.0	1.2*	0.7*	0.5	0.4	6598
UKR	0.0	-0.3*	-0.5*	-0.6*	-0.9*	5632
URY	0.0	-0.1	-0.2	-0.2	-0.5*	4330
USA	0.0	-0.0	-0.2	-0.5*	-0.2	4121
VNM	0.0	-0.0	-0.2+	-0.3*	-0.6*	5191

* p<0.05, + p<0.1; robust std err

Table 2: OLS regressions of SWB on place size for each country separately includiOBng covariates from a4 (not shown). Only LBN and HUN marginally happier in cities lt1m

4 Conclusion and discussion

Future research: Arguably after the pandemic cities became even more unhappy just as adults did **??blind for peer-review**

TODO: have separate som-r.tex as opposed to having it below; and in paper say see supplemetary material as opposed to see appendix!

ONLINE APPENDIX

[note: this section will NOT be a part of the final version of the manuscript, but will be available online instead]

	lt3k	3-15k	15-100k	100k-1m	gt1m	N
ALB	0.0	-0.0	-0.2*	-0.2*	-0.1	6002
ARE	0.0	-0.4*	-0.7*	-0.8*	-1.1*	16355
ARG	0.0	0.0	-0.1	-0.2	-0.1	10442
AUT	0.0	-0.1	0.0	-0.0	-0.5*	6466
BGR	0.0	-0.1	0.0	-0.2	-0.3	4403
BIH	0.0	-0.0	-0.1	-0.2		5982
BLR	0.0	-0.1	0.1	-0.3*	-0.6*	5712
BRA	0.0	-0.1	-0.2	-0.5*	-0.4*	8385
BRN	0.0	-0.1	-0.0	-0.2		6528
CHE	0.0	-0.2+	-0.2	-0.3+		5441
CHL	0.0	0.5*	0.3	0.2	0.3	6442
COL	0.0	0.2	-0.1	-0.3*	-0.6*	6633
CRI	0.0	-0.2*	-0.1+	-0.4*	-0.9*	6420
CZE	0.0	-0.0	-0.1	-0.1	-0.4*	6487
DEU	0.0	0.0	0.0	-0.0	0.1	3839
DOM	0.0	0.1	0.1	-0.1	-0.2	3694
ESP	0.0	-0.3*	-0.3*	-0.4*	-0.4*	33374
EST	0.0	-0.2+	-0.0	-0.0		5129
FIN	0.0	-0.1	0.0	0.1		5384
FRA	0.0	0.1	0.2	0.1	0.4+	5312
GBR	0.0	-0.1	-0.2	-0.2*	-0.2	11090
GEO	0.0	0.2+	0.1	-0.1	-0.2	4929
GRC	0.0	-0.0	-0.3*	-0.3*	-0.3*	5995
HKG	0.0	0.3	0.3	0.1	0.1	4205
HRV	0.0	0.7	0.8+	0.5	0.4	6376
HUN	0.0	-0.2	-0.4	-0.4	-0.4	4926
IDN	0.0	-0.1	-0.1	-0.2*	0.3*	10131
IRL	0.0	-0.3*	-0.3*	-0.1	-0.5*	5422
ISL	0.0	0.0	0.1	-0.0		3011
ITA	0.0	-0.1	-0.3*	-0.4*	-0.6*	10745
JOR	0.0	-0.1	-0.2	-0.2	0.0	8395
JPN		0.0	0.3+	0.2	0.2	6030
KAZ	0.0	-0.2*	-0.5*	-0.9*	-1.1*	18736
KOR	0.0	-0.9*	-0.3	-0.6*	-0.5+	6511
KSV	0.0	-0.3*	-0.3*	-0.6*		4522
LBN	0.0	0.6*	0.6*	0.6*	1.5*	4390
LTU	0.0	-0.2*	-0.1	-0.4*		6568
LUX		0.0	-0.1	-0.0		5010
LVA	0.0	0.1	0.2	0.1		4928
MAC	0.0			0.3		3746
MAR	0.0	-0.2	-0.4*	-0.3*	-0.4*	5116
MDA	0.0	0.1	0.1	-0.0	0.1	5232
MEX	0.0	-0.0	-0.1	0.1	-0.0	5961
MKD	0.0	-0.5*	-0.6*	-0.6*	-0.8*	4652
MLT	0.0	0.0	-0.2			3142
MNE	0.0	-1.3*	-1.3*	-1.4*		6253
MYS	0.0	-0.0	-0.0	-0.4*	-0.4*	5880
NLD	0.0	-0.1	-0.1	-0.2		3617
PAN	0.0	0.3+	0.1	-0.1	-0.5*	3775
PER	0.0	-0.2*	-0.2*	-0.3*	-0.6*	4926
PHL	0.0	0.5*	0.2+	0.1	0.2	6299
POL	0.0	-0.2+	-0.2*	-0.2	-0.0	5463
PRT	0.0	-0.6*	-0.6*	-0.6*	-0.6*	5477
QAT	0.0	0.0	-0.0	-0.1	-0.1	12127
QAZ	0.0	0.6	0.8	0.4	0.9	3719
QCI	0.0	-0.2	-0.1	-0.2	-0.0	11943
QMR	0.0	-0.8*	-0.6*	-0.7*	0.0	1942
QRT	0.0	-0.3*	-0.9*	-0.9*	-0.9*	5525
ROU	0.0	0.4*	0.4*	0.4*	0.4+	4948
RUS	0.0	-0.5*	-0.6*	-0.6*	-0.8*	6866
SAU	0.0	-0.5*	-0.4*	-0.7*	-0.8*	5794
SRB	0.0	0.4	0.7	0.6	0.4	5918
SVK	0.0	0.1	-0.1	-0.3*		5275
SVN	0.0	-0.3	-0.2	-0.2		5550
TAP	0.0	-0.1	-0.1	-0.1	-0.3	6962
THA	0.0	-0.1+	-0.3*	-0.4*	-0.6*	8357
TUR	0.0	1.1*	0.7*	0.5+	0.6+	6643
UKR	0.0	-0.2+	-0.3*	-0.4*	-0.6*	5898
URY	0.0	0.0	-0.1	-0.0	-0.2	4652
USA	0.0	0.0	-0.1	-0.4*	-0.2	4252
VNM	0.0	0.0	-0.2	-0.2*	-0.6*	5291

* p<0.05, + p<0.1; robust std err

Table 3: OLS regressions of SWB on place size for each country separately. barely anything like france and 2 more

References

Okulicz-Kozaryn, A. (2016): "Unhappy metropolis (when American city is too big)," *Cities*.

Okulicz-Kozaryn, A. and R. R. Valente (2021): "Urban unhappiness is common," *Cities*, 103368.