

Data

Economic, health and demographic factors that can influence **life expectancy**.

Data obtained from *Global Health Observatory* and *United Nations* websites.

After exploratory analysis: **2980 rows** and **7 variables**.

Name	Type	% Range
Life expectancy	continous	36.30 - 84.17
Adult Mortality	continous	49.2 - 696.6
Infant Mortality	continous	0.00 - 0.16
Alcohol	continous	0.00 - 20.18
BMI	continous	19.80 - 32.20
Polio	continous	8.00 - 99.00
Domestic GGHE	continous	0.06 - 12.06

Network

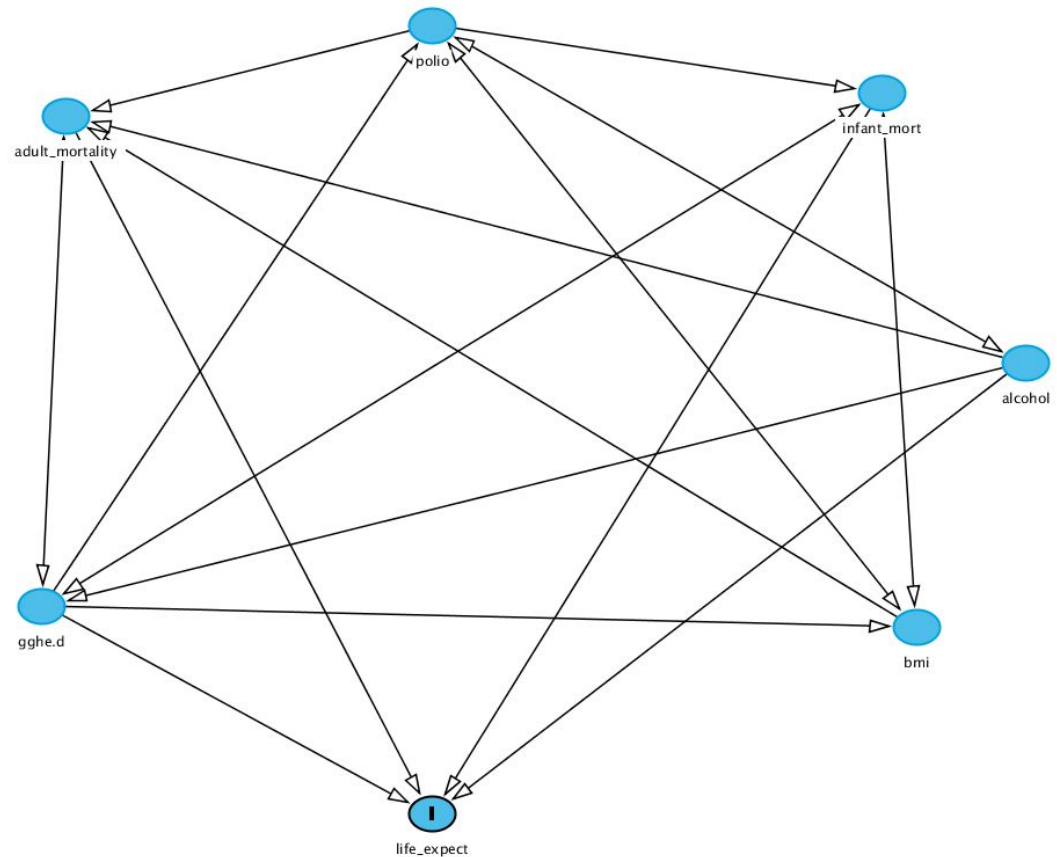
3 networks **tested**, changes:

1. latent variable alcohol \leftrightarrow polio
2. remove bmi \rightarrow alcohol

3 **significant conditional independencies** obtained.

Model **fitting** conclusions:

1. **BMI, Polio > Alcohol.**
influencing **Adult Mort.**
2. **Adult Mort. most influence**
Life Exp.



	estimate	p.value	2.5%	97.5%
alch _ _ bmi ggh.	0.03377041	0.06533356	-0.002144621	0.069598546
bmi _ _ lf_x adl_, alch, ggh., inf_	-0.03924450	0.03228090	-0.075069341	-0.003318651
lf_x _ _ poli adl_, alch, ggh., inf_	0.02765999	0.13141339	-0.008278774	0.063527450

Conclusions

Problems:

- Life expectancy is influenced by a **lot of variables, related** between them
- **Small sample** of variables.

Leading to a **high number** of **latent variables** and a **low number** of **independencies**.

Future work:

- Consider **more variables**.
- **Explicit** some of the **latent** ones.

Even with these improvements, we think it's **difficult** to **obtain a high number** of **independencies**.