Orthognathic surgery or corrective jaw surgery improves head and neck functions in subjects with developmental jaw deformities. But, its effect on laypersons' perception of the subject's personality traits and emotional facial expressions has not yet been quantified.

Before/after images of 20 subjects who underwent corrective jaw surgery... were hosted on a crowdsourcing platform to compare... laypersons' perceptions of the subjects before and after surgery.

After surgery, laypersons' perceptions of subjects were...

- **500 respondents**
  - 71% Whites
  - 59% Male
  - 52% Aged 25–34 years

**Perceived personality**
- Dominant $\uparrow$
- Trustworthy $\uparrow$
- Friendly $\uparrow$
- Intelligent $\uparrow$
- Attractive $\uparrow$
- Threatening $\downarrow$

**Perceived emotions**
- Happier $\uparrow$
- Angry $\downarrow$
- Surprised $\downarrow$
- Sad $\downarrow$
- Afraid $\downarrow$
- Disgusted $\downarrow$

Orthognathic surgery positively impacts the perceived personality and facial expressions of subjects.