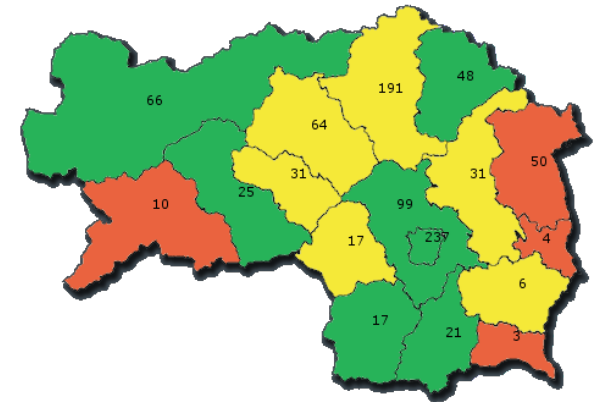


Steirische Gesundheitslandkarte (Styrian Health Map)



Data Description

translation by Uwe Ligges

Austrian Research Centers GmbH – ARC

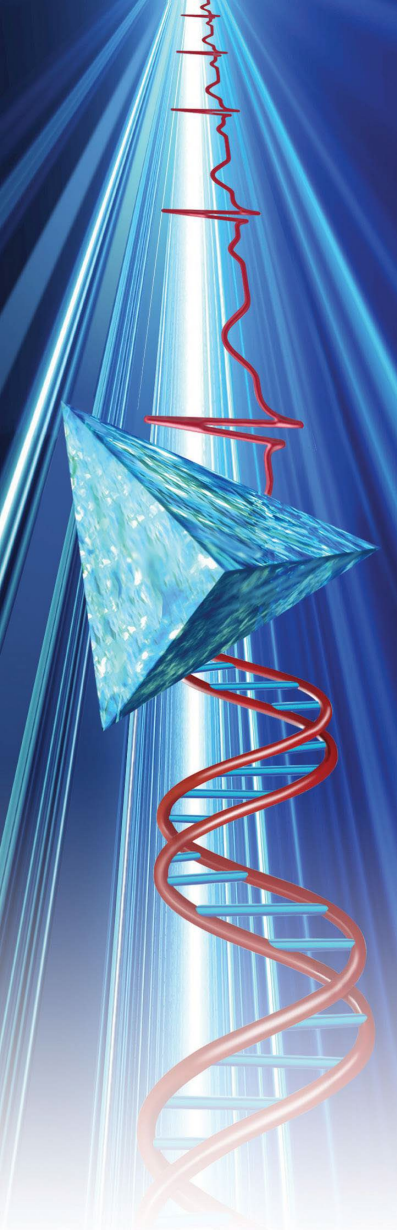
Biomedical Engineering / eHealth systems

DI Christoph Adl

Donau-City-Straße 1 / 8. Stock, 1220 Wien

T: 0 50 550 / 48 11, F: 0316 586570-12

www.arcsmed.at/eHs, E: eHs@arcsmed.at

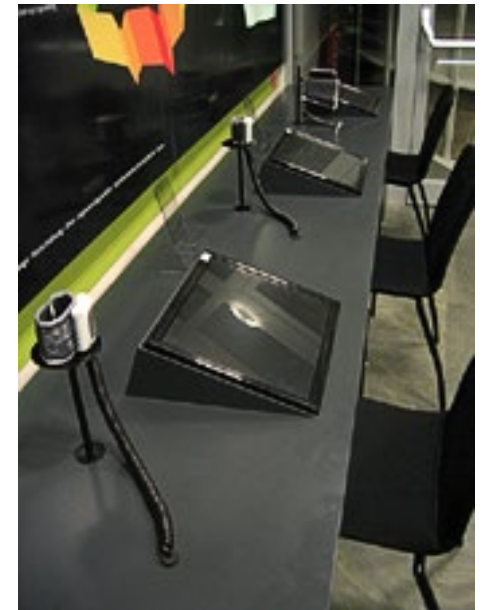




Data collection

- Styrian state exhibition 2006 – „Wege zur Gesundheit“
- April 29, 2006 to October 29, 2006
- 3 terminals for data collection
- 12 parameters
- > 16 000 measurements

 **WEGE ZUR
GESUNDHEIT**
29.4.–29.10. Steirische
Landesausstellung 2006
BRUCK AN DER MUR





Parameters

- *id* (auto-incremented number in database)
- *zeit* (date and time, sorted)
- *terminal* (1, 2, 3)
- Place of residence
 - *postleitzahl* (postcode, 4 digits, *null* for foreigners)
 - *gemeinde* (municipality, *null* for foreigners)
 - *bezirk* (district, *null* for foreigners)
 - *bundesland* (federal state, *null* for foreigners)
- *befinden* (felt health condition, 1: very good, ..., 5: very poor)
- *geburtsjahr* (year of birth)
- *geschlecht* (gender: f, m)
- *raucher* (smoker: WAHR (true) or FALSCH (false))
- *blutzucker_bekannt* (diabetes know: WAHR (true) or FALSCH (false))
- *cholesterin_bekannt* (cholesterole known: WAHR (true) or FALSCH (false))
- *in_behandlung* (receives hypertension treatment: WAHR (true) or FALSCH (false))
- *schaetzwert_bp_sys* (self estimated systolic blood pressure)
- *schaetzwert_by_dia* (self estimated diastolic blood pressure)
- *messwert_bp_sys* (measured systolic blood pressure)
- *messwert_bp_dia* (measured diastolic blood pressure)



Extra Information

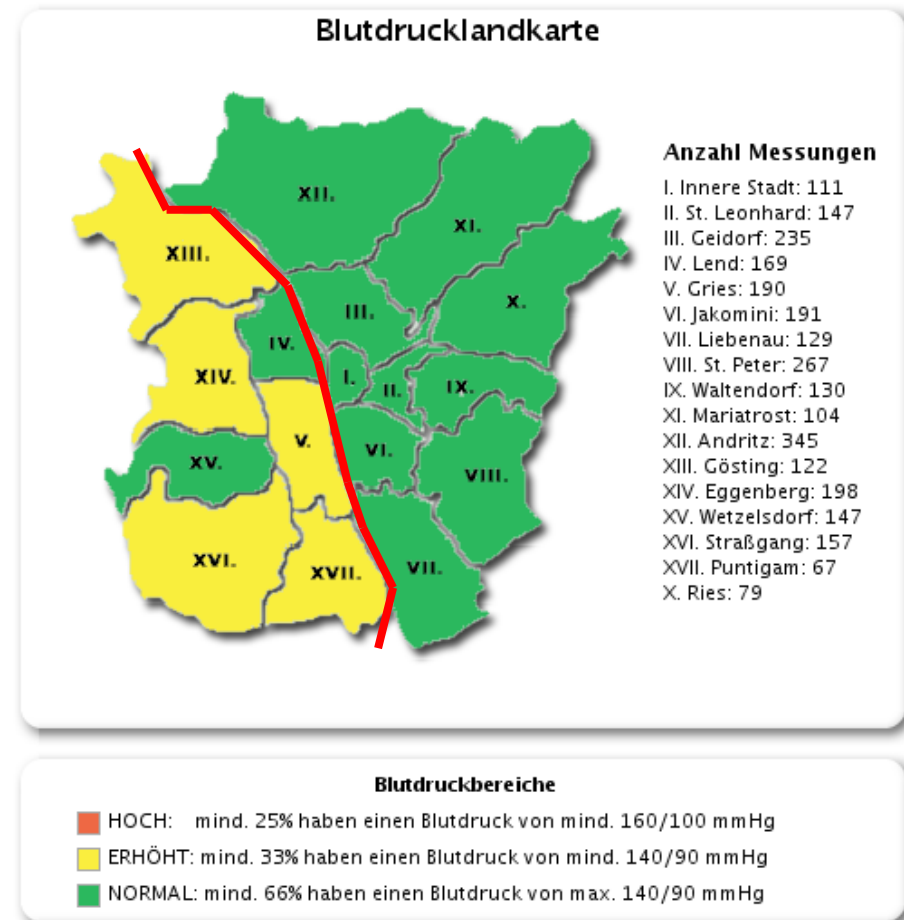
- Terminal 3 was equipped with an upper arm blood pressure (bp) monitor (Oberarmmessgerät) roughly until end of May, afterwards with a wrist bp monitor (Handgelenksmessgerät).
- Wrist blood pressure monitor less accurately than upper arm bp monitor.

Blood Pressure Map Graz

Does a significant difference of mean blood pressure exist between the districts east and west of the Mur river?

east: Andritz, Mariatrost, Ries, Innere Stadt, St. Leonhard, Geidorf, Waltendorf, Jakomini, Liebenau, St. Peter)

west: Lend, Gries, Gösting, Eggenberg, Wetzelsdorf, Straßgang, Puntigam





Further Hypotheses....

1. Is there some geographical influence?
May the age be related (which differs by region)?
2. Can we statistically prove the relationship between age and bp in the data?
3. Are there differences in blood pressure by gender, diabetes, smoking, cholesterol, well being?
4. Are patients that receive treatment well adjusted by their doctors?
5. Which group of people knows best about their blood pressure?
6. Have all terminals worked well all the time?