

Salt sales survey: a simplified method to evaluate population salt reduction programs

Yuan Ma, Feng J He, Nicole Li, Jesse Hao, Jing Zhang, Lijing L. Yan, Yangfeng Wu

The George Institute for Global Health at Peking University Health Science Centre

School of Public Health, Peking University

5th August 2015, Valencia, Spain





"Cocaine? Thank God - I thought you were doing salt."

www.actiononsalt.org.uk







Background



12-14g/d)

prtension

- "Cocaine? Thank God I thought you were doing salt."
- ×:High participant burden; costly;
- X: Completeness?



Aim

To determine whether a salt sales survey could serve as a simplified method to evaluate community-based salt reduction programs



CRHI-SRS main study design



≈2400 individuals collected one 24h urine collection at the end of the trial



Salt sales Survey



An independent researcher called the shopkeepers monthly to collect salt sales data



Regular salt vs Salt Substitute





 PEKING UNIVERSITY

Results



Salt substitute sales vs 24h urinary K

Results



Salt substitute sales vs 24h urinary Na



Results

Effect size	Assessed by	Estimated from
(Intervention vs control)	24-hour Urine	SS sales
difference in sodium intake	-7.0 114 mmol/d	4% -8.0 mmol/d
difference in	14.1 10	14.2
potassium intake	mmol/d	mmol/d



Results





Summary- Salt sales survey

1) SS sales: PS+HE>HE>control

- 24h urinary K:PS+HE>HE>control
- 24h urinary Na:PS+HE<HE<control

2) Intervention effect estimated from SS sales

- Potassium: 114% of that from 24h urine.
- Sodium: 110% of that from 24h urine

3) Larger statistical power4) Lower cost



Limitations

- ? Salt intake level
- Suitable situation:
 - Salt added by consumers is major source
 - Population should be stable
 - Community-based



Conclusion

 A salt sales survey could serve as a simple, sensitive and cost-effective method to evaluate community-based salt reduction programs where salt is mainly added by the consumers.



Acknowledgement

□ Sponsors

- The US NIH NHLBI
- The US CDC DHDSP
- United Health Group

Participants

Partners

- US CDC
- The Duke University
- The George Institute for Global Health, Australia
- China Medical University
- Jiaotong University Medical College
- Hebei Provincial CDC
- Ningxia Medical University
- Changzhi Medical University



Thank you!

Any Questions?



Timeline





----PS+HE ---- HE ······ Control

