Evidence for effects of financial instruments to realize nationa dietary goals

Vrije Universiteit Amsterdam

Jaap Seidell,

Obesity/NCDs

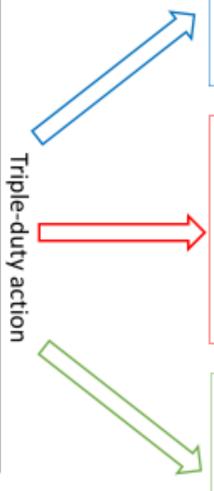
Healthier diets for cancer/ obesity prevention

Undernutrition

More land for efficient, sustainable agriculture

Climate Change

Lower GHG emissions from agriculture



Reduce red meat consumption

eg tax/subsidy shifts, health & environmental labelling, social marketing

Review of Research on the Price Elasticity of Demand for Food The Impact of Food Prices on Consumption: A Systematic

- We reviewed 160 studies on the price elasticity of demand for major with food away from home, soft drinks, juice, and meats being most variations in estimates by study design. Price elasticities for foods and in soft drink prices should reduce consumption by 8% to 10% nonalcoholic beverages ranged from 0.27 to 0.81 (absolute values), tood categories to assess mean elasticities by food category and responsive to price changes (0.7–0.8). As an example, a 10% increase
- Andreyeva T, Long MW, Brownell KD.
 Am J Public Health 2010;100:216-222

meat and dairy consumption in Sweden. Food Säll S, Gren I. Effects of an environmental tax on *Policy.* 55(2015) 41-5

- The unit tax (meat and dairy) applied corresponded to between 8.9% and 33.3% of the respective price per kg product in 2009
- The results indicated relatively inelastic own price elasticities and high products income elasticities for all meat products and slightly lower for dairy
- Simultaneous introduction of a tax on all seven products decreased emissions of GHG, nitrogen, ammonia and phosphorus from the livestock sector by up to 12%

e0204139 health impacts. Springmann M. PLoS One. 2018; 13(11): Health-motivated taxes on red and processed meat: A modelling study on optimal tax levels and associated

- The number of deaths attributable to red and processed meat consumption decreased by 9% (222,000; SI, 38,000–357,000), and attributable health costs decreased by 14% (USD 41 billion; SI, 10–57) globally, in each case with greatest reductions in high and middle-income
- Including the social health cost of red and processed meat consumption in the price of red and processed meat could lead to significant health and environmental benefits, in particular in high and middle-income countries.
- The optimal tax levels estimated in this study are context-specific and can complement the simple rules of thumb currently used for setting healthmotivated tax levels

A social cost-benefit analysis of meat taxation and a fruit tood consumption in the Netherlands. and vegetables subsidy for a healthy and sustainable

- Over 30-years, a 15% or 30% meat tax or 10% F&V subsidy could productivity levels result in reduced healthcare costs, increased quality of life, and higher
- Benefits to the environment of a meat tax are an estimated €3400 whereas the increased F&V consumption could result in €100 million costs for the environment million or €6300 million in the 15% or 30% scenario respectively,
- Broeks MJ et al. BMC Public Health 2020; 20: 643

Conclusions

- Taxation of animal products will decrease consumption of these ammonia and phosphorus) and impact on health (noncommunicanble diseases, improved quality of life). products and thereby lower environmental impact (GHG, nitrogen,
- Price increases of animal products should be part of an integrated ultraprocessed plantbased products). price policy to improve the dietary consumption of whole food plant based products (and reduce the intake of inferior refined