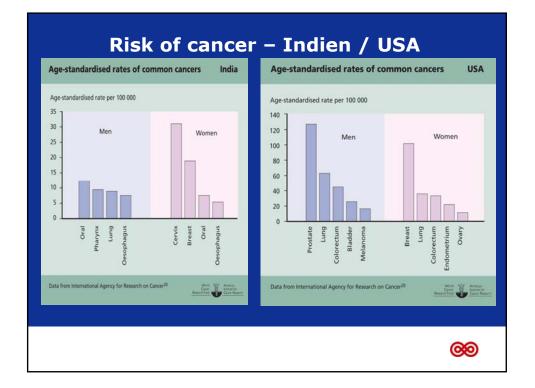
Prevention of cancer – the influence of diet

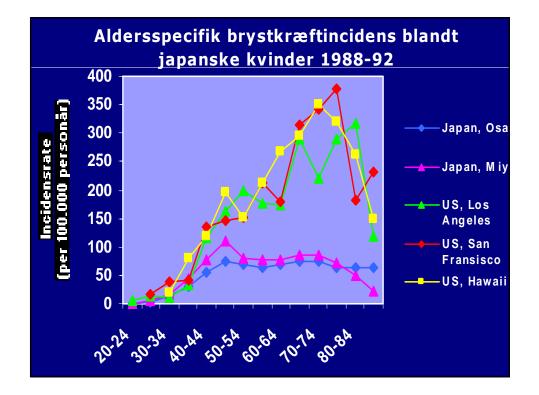


Food Network, 2010 Anne Tjønneland Institut for Epidemiologisk Kræftforskning, Kræftens Bekæmpelse

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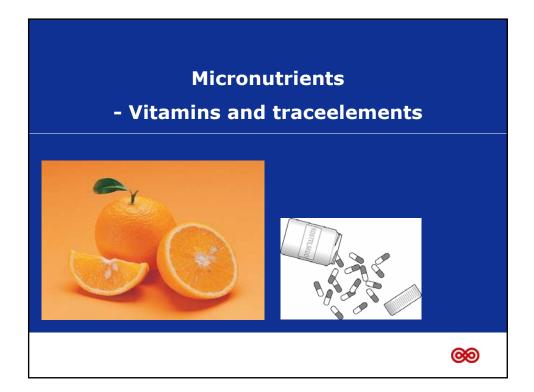


Epidemiologic design/methods

- Population studies
- Case-control studies
- Prospective studies
- Intervention studies

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VEGETABLES, ¹ FRUITS, ¹ PULSES (LEGUMES), NUTS, SEEDS, HERBS, SPICES, AND THE RISK OF CANCER In the judgement of the Panel, the factors listed below modify the risk of cancer. Judgements are graded according to the strength of the evidence.						
	DECREASES RISK		INCREASES RISK			
	Exposure	Cancer site	Exposure	Cancer site		
Convincing						
Probable	Non-starchy vegetables ¹ Allium vegetables ¹ Garlic ¹ Fruits ¹	Mouth, pharynx, larynx Oesophagus Stomach Stomach Colorectum Mouth, pharynx, larynx Oesophagus Lung Stomach				
	Foods containing folate ² Foods containing carotenoids ² Foods containing beta-carotene ²	Pancreas Mouth, pharynx, larynx Lung Oesophagus				
	Foods containing lycopene ²³ Foods containing vitamin C ²⁴ Foods containing selenium ²⁵	Prostate Oesophagus Prostate				

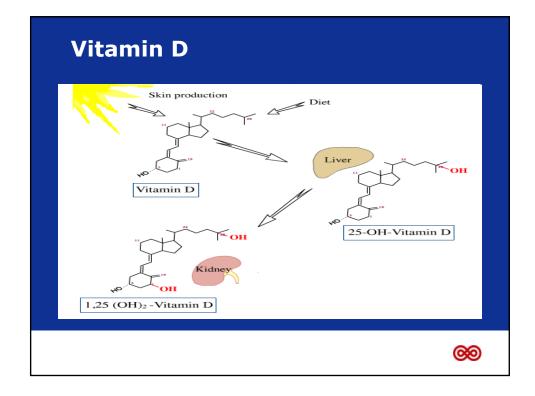


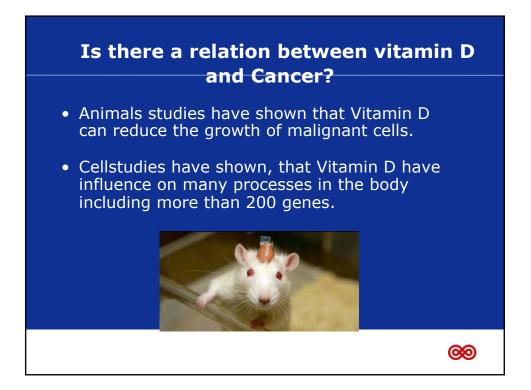




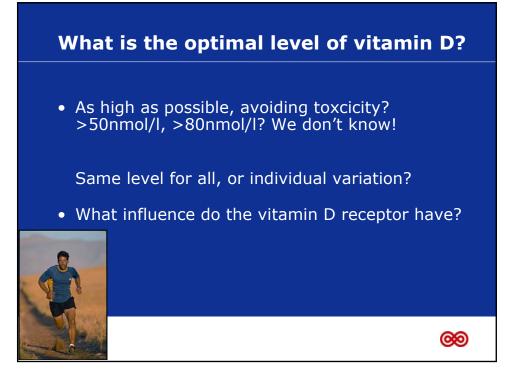








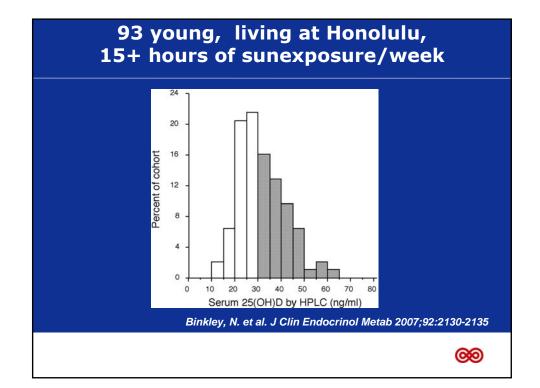




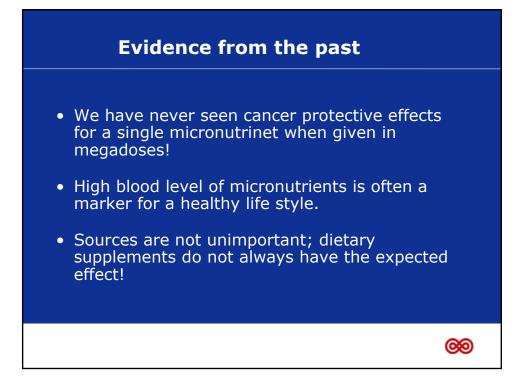


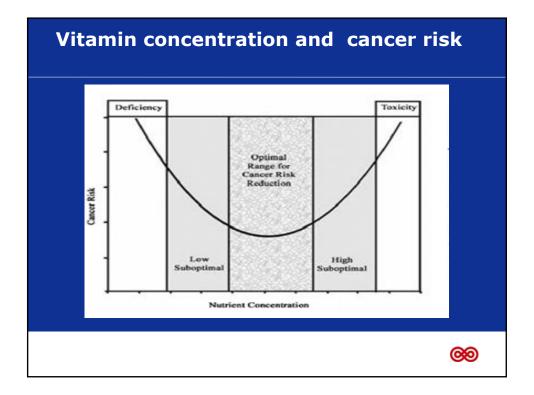




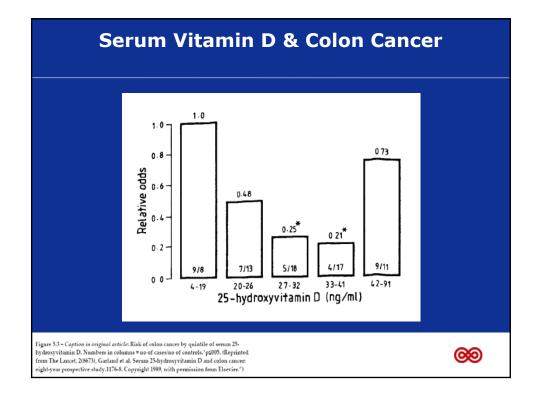


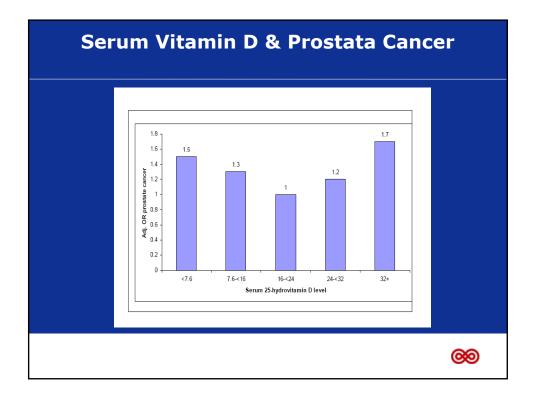




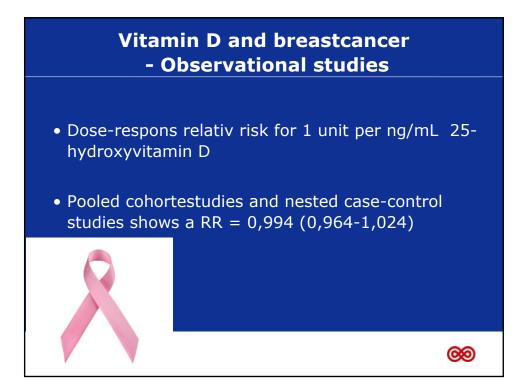


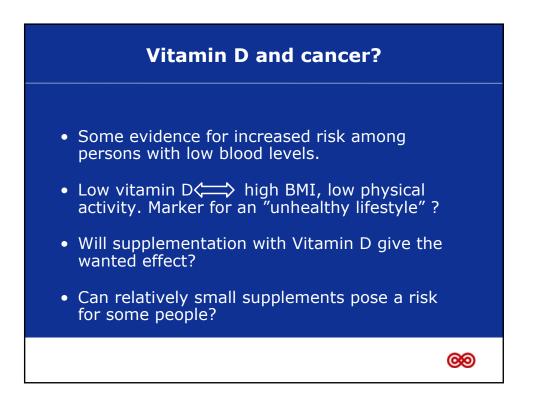




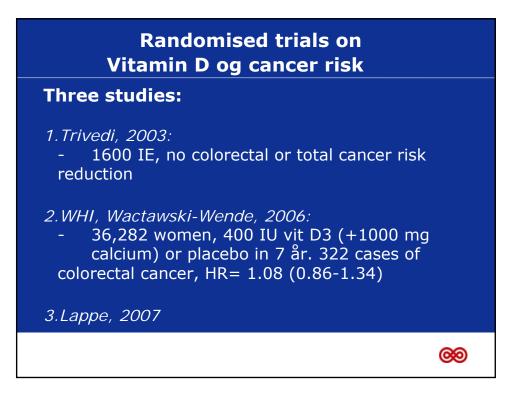










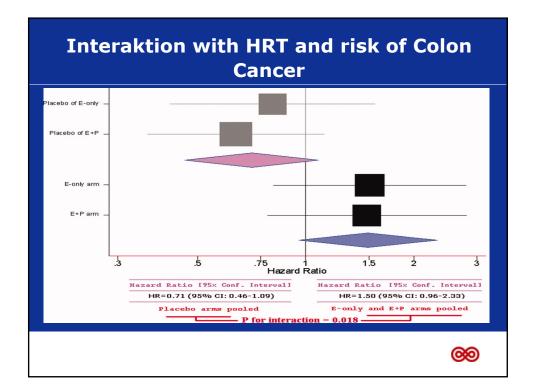




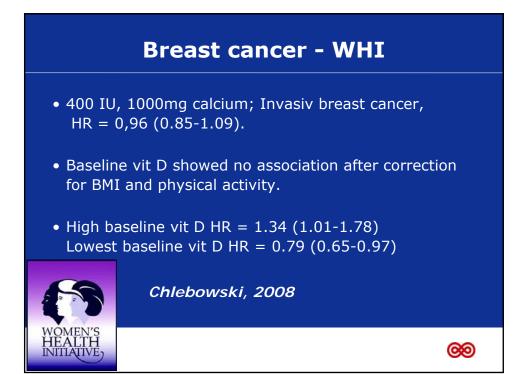


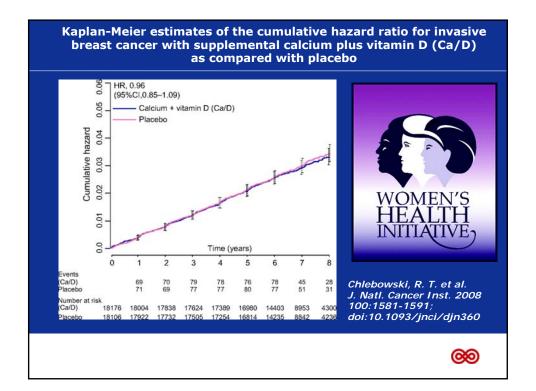
Calcium plus vitamin D Supplementation and the Risk of Colorectal Cancer

Baseline Serum 25-Hydroxyvitamin D	Main-Effect Odds Ratio (95% CI)†	Calcium + Vitamin D	Placebo	Intervention Odds Ratio (95% CI)‡	
	No. with Colorectal Cancer/ No. of Controls				
≥58.4 nmol/liter	1.00	33/48	27/45	1.15 (0.58–2.27)	
42.4–58.3 nmol/liter	1.96 (1.18-3.24)	44/41	34/32	1.12 (0.59-2.12)	
31.0–42.3 nmol/liter	1.95 (1.18-3.24)	35/32	45/41	0.99 (0.51–1.91)	
<31.0 nmol/liter	2.53 (1.49-4.32)	46/39	42/28	0.75 (0.39-1.48)	

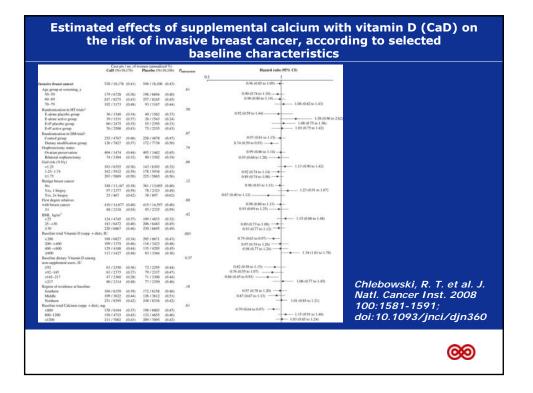


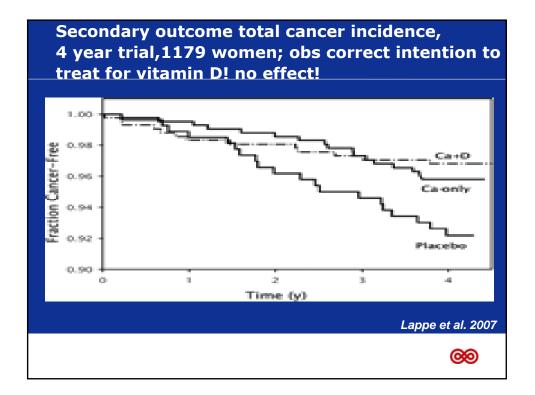




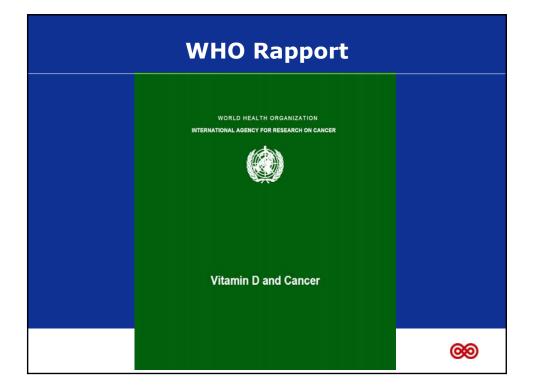


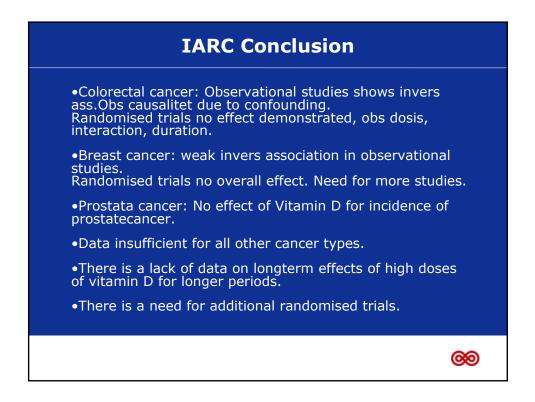




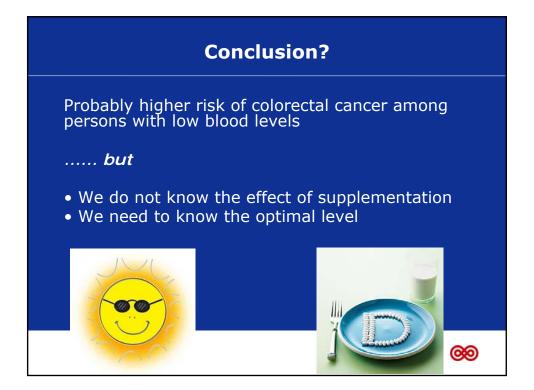


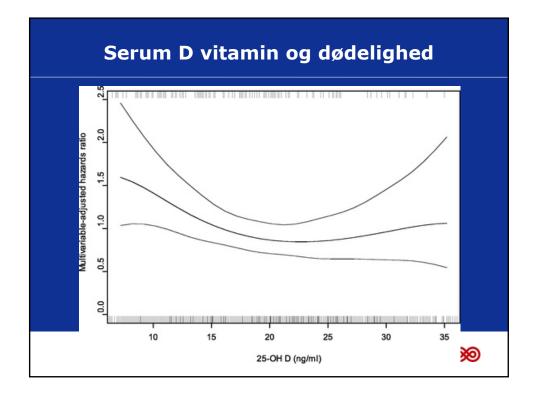


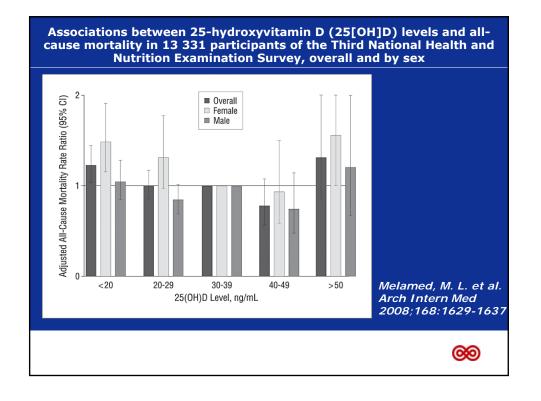


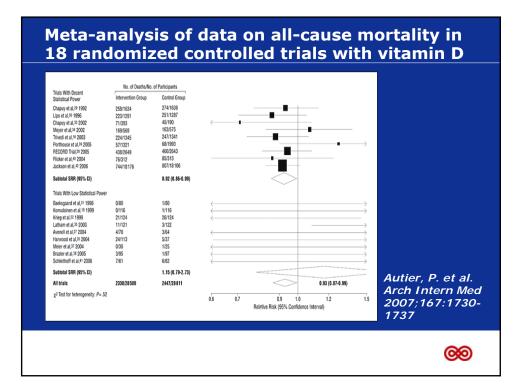




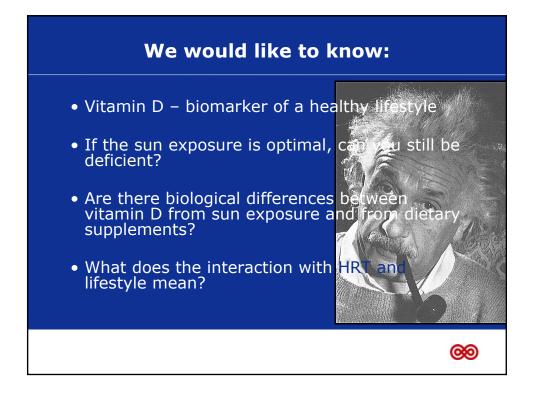






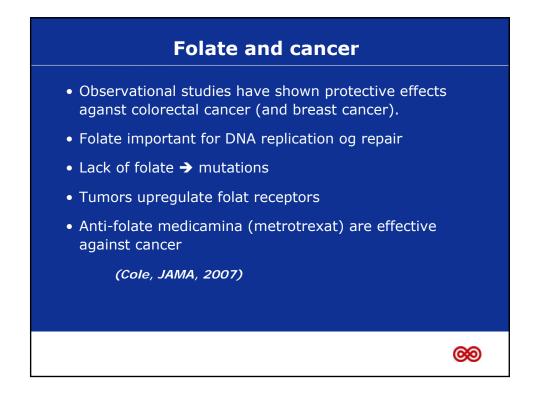


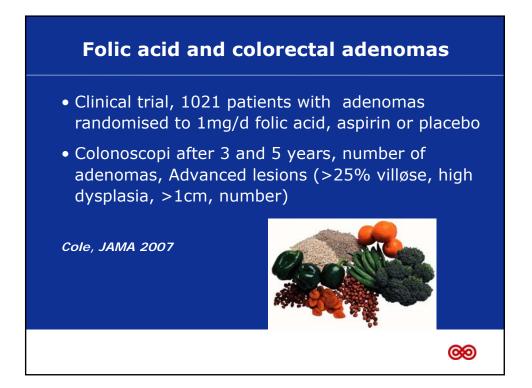














Folic acid and colorectal adenomas

- Result; After 5 years, no significant difference in the number of adenomas. Folic acid group had 67% significant more advanced lesions og 2,32 (1,23-4,35) times higher risk of 3 or more lesions
- The intervention group had significant more other cancers, especially prostata (24 cases against 9 cases in the controlgroup

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No interaction with BMI, alcohol or smoking

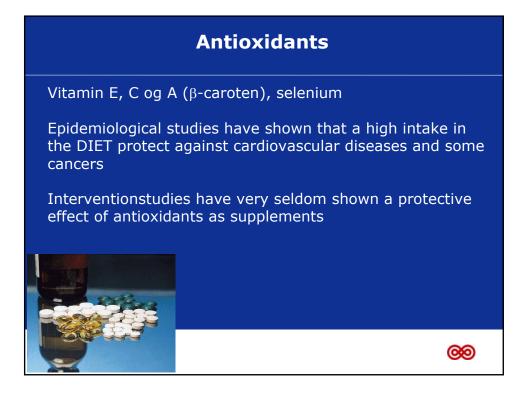


Conclusion

- Not identified precurser lesions
- We know that 30% of the population at year 60 have adenomas in the colon!









Cochrane review

Antioxidant supplements for prevention of gastrointestinal cancers: a systematic review and meta-analysis

Bjelakovic G, Nikolova D, Simonetti RG, Gluud C

14 randomised trials (170,525) - supplement af β -caroten , vit, A, C, E og selenium in relation to esophageal, gastric, colorectal, pancreatic and livercancer – a total of 2100 cancere

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(Lancet 2004; 364: 1219-28)

