

:

kouroosh110@yahoo.com:

// : // :

()

-

(Odds Ratio)

(FFQ)

-

()

(/ /) / (/ /) / (/ /) /

(/ /) / (/ /) / (/ /) / (/ /) /

(Total fat)

(PUFA)

(MUFA)

%

(Nielsen et al. 2005

Gairad)

(et al.1998

Romieu et al. 2004;)

Romieu et al.2004; Okamura et al.)
 .(2005

(Frequency)

//

//

% /

/

$P_0 =$ /

)

%

%

.(

()

(OR)

%

%

.(How 1994)

/

$$P_1 = P_0 \times \frac{OR}{[1 + P_0 (OR - 1)]}$$

$$P = \frac{(r \times P_0) + P_1}{r + 1}$$

Polednak)

$$n = \frac{2 (Z_{1-\alpha/2} + Z_{1-\beta})^2 \times P (1-P)}{(P_0 - P_1)^2}$$

.(1999

$r =$

()

How 1994; Byrne et al 2002; Cho et al.)
 2003; Willett 1998; Howe et al. 1990; Fay
 (et al.1997

Talamini et al. 1984; Franceschi et al.)

Cho)

(1996

et al. 2003; Wakai 2000; Romieu et al
 . (2004; Sieri et al 2002

P = /

T

(p= /)

(Blind)

(Zohnle)

(p < /)

(χ^2)

t

(p= /)

(Interaction)

Woolf

(p < /)

(OR)

(P= /)

(p= /)

p < /

(SAFA)

(MUFA)

(PUFA)

Willet 1998; Howe)
 et al. 1990; Fay et al.1997; Cho et al.2003;
 (Cade et al. 1998Wakai 2000
 Holmes 1999;)
 Wakai et al 2000; Hunter et al. 1996, Smith-
 (Warner et al 2001,

p < / /

/

/

(Romieu et al 2004)

Wakai et al. 2000; Sieri)
 Holmes) (et al. 2002
 (et al. 2003; Nielsen et al. 2005

(Zaridz 1991)

(Katsoyanni1994)

% / /

(Nurse's Health Study)

Prentice et al.1990; Prentice.)

(et al. 1988; Toniolo et al. 1989

% /

% /

(Toniolo et al. 1989)

% RAD

(Under reporting)

Johnson et al.1998; Toniolo P. et al.)

(1989

(Recall Bias)

Differential)

-

(Misclassification

(Blind)

(Total fat)

(MUFA)

(PUFA)

(Selection Bias)

P value T test

NS* / / / / ()

/ / / / / ()

NS / / / /

NS* / / / / ()

()

*. NS = Non-Significant

/...

(OR)

OR	%	OR			OR	%	(OR)	OR		
	()	(=)	(=)		()		(=)	(=)		
Pvalue	()	(OR)	(=)	(=)	Pvalue	()	(=)	(=)	()	
/	(/ /)	/	/	/	/	(/ /)	/	/	≤ /	
(/ /)	(/ /)	/	/	/	P < /	(/ /)	/	/	/	
NS*	(/ /)	/	/	/	(/ /)	(/ /)	/	/	()	
/	(/ /)	/	/	/	/	(/ /)	/	/	≥ /	
(/ /)	(/ /)	/	/	/	/	(/ /)	/	/	≤ /	
NS*	(/ /)	/	/	/	NS	(/ /)	/	/	/ /	
/	(/ /)	/	/	/	/	(/ /)	/	/	/ /	
(/ /)	(/ /)	/	/	/	(/ /)	(/ /)	/	/	()	
NS*	(/ /)	/	/	/	P = /	(/ /)	/	/	≥ /	
/	(/ /)	/	/	/	/	(/ /)	/	/	≤ /	
(/ /)	(/ /)	/	/	/	(/ /)	(/ /)	/	/	/ /	
NS*	(/ /)	/	/	/	P = /	(/ /)	/	/	()	
/	(/ /)	/	/	/	/	(/ /)	/	/	≥ /	

*. NS = Non-Significant

(OR)

OR			OR			OR			OR			
-)%			(=) (=))%			()			
((=) (=)			(-			(=) (=)			
Pvalue			(OR)			(OR)			(OR)			
						Pvalue						
/	(/ /)	/	/	/	/	/	(/ /)	/	/	/	≤ /	
(/ /)	(/ /)	/	/	/	/	(/ /)	(/ /)	/	/	/	/ /	()
NS*	(/ /)	/	/	/	/	P= /	(/ /)	/	/	/	/ /	
	(/ /)	/	/	/	/		(/ /)	/	/	/	≥ /	
/	(/ /)	/	/	/	/	/	(/ /)	/	/	/	≤ /	
(/ /)	(/ /)	/	/	/	/	(/ /)	(/ /)	/	/	/	/ /	
NS*	(/ /)	/	/	/	/	P< /	(/ /)	/	/	/	/ /	()
	(/ /)	/	/	/	/		(/ /)	/	/	/	≥ /	
/	(/ /)	/	/	/	/	/	(/ /)	/	/	/	≤ /	
(/ /)	(/ /)	/	/	/	/	(/ /)	(/ /)	/	/	/	/ /	()
P= /	(/ /)	/	/	/	/	P< /	(/ /)	/	/	/	/ /	
	(/ /)	/	/	/	/		(/ /)	/	/	/	≥ /	()
/	(/ /)	/	/	/	/	/	(/ /)	/	/	/	≤ /	
(/ /)	(/ /)	/	/	/	/	(/ /)	(/ /)	/	/	/	/ /)
NS	(/ /)	/	/	/	/	NS	(/ /)	/	/	/	/ /	(
	(/ /)	/	/	/	/		(/ /)	/	/	/	≥ /	

*. NS = Non-Significant

(OR)

P	Pvalue)%	(-	(OR)			()
NS		(/ /)	/		% RDA		()	
	/	(/ /)	/		% RDA			
NS		(/ /)	/		% RDA		()	
	/	(/ /)	/		% RDA			
NS		(/ /)	/		% RDA		()	
	/	(/ /)	/		% RDA			
NS		(/ /)	/		% RDA		()	
	/	(/ /)	/		% RDA			
NS		(/ /)	/		% RDA		()	
	/	(/ /)	/		% RDA			
NS		(/ /)	/		% RDA		()	
	/	(/ /)	/		% RDA			
NS		(/ /)	/		% RDA		()	
	/	(/ /)	/		% RDA			
NS		(/ /)	/		% RDA		()	
	/	(/ /)	/		% RDA			

: RDA

NS = Non-Significant

(OR)				
P value)%	(-	()
	((OR)	
/	/	/	/	()
/	/	/	/	()
/	/	/	/	()
/	/	/	/	×
/	/	/	/	()
/	/	/	/	()

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development of mammary tumors in rodents: a review. *Cancer Res.* **57**, pp. 3979-88.

Franceschi, S., Favero, A., La Vecchia, C., Baron, A.E., Negri, E., Dal-Masol, L., Giacosa, A., Montella, M. Conti, E. and Amadori, D., 1996. Body size indices and breast cancer risk before and after menopause. *Int. J. Cancer.* **67**, pp. 181-86.

Gairad, B., Mathelin, C., Schaffer, P. and Brelles, J.P., 1998. Breast cancer: epidemiology, risk factor, screening. *Rev. Prat.* **48**, pp. 21-27.

Holmes, M.D., Liu, S., Hankinson, S.E., Colditz, G.A., Hunter, D.J. and Willett, W.C., 2004. Dietary Carbohydrates, Fiber, and Breast Cancer Risk. *American Journal of Epidemiology*, **159**, pp.732-739.

Howe, G.R., Hirohata, T., Hislop, T.G., Iscovich, J.M., Yuan, J.M. and Katsouyanni K., 1990. Dietary factors and risk of breast cancer: combined analysis of 12 case-control studies. *J Natl CancerInst.* **82**, pp. 561-9.

How, G.R., 1994. Dietary fat and breast cancer risk. *Cancer.* **74**, pp. 1078-84.

Hunter, D.J, Spiegelman, D., Adami, H.O., Beeson, L, van den Brandt, P.A. and Folsom A.R., 1996. Cohort studies of fat intake and the risk of breast cancer, a

Byrne, C., Rockett, H. and Holmes, D., 2002. Dietary fat subtypes, and breast cancer risk: lack of an association among postmenopausal women with no history of benign breast disease. *Cancer Epidemiology, Biomarkers and Prevention.* **11**, pp.261-265.

Cho, E., Spiegelman, D., Hunter, D.J., Chen, W.Y., Stampfer, M.J., Colditz, G.A., and Willett, W.C., 2003. Premenopausal Fat Intake and Risk of Breast cancer. *Journal of National Cancer Institute.* **95**(14), pp.1079-1085.

Fay, M.P., Freedman, L.S., Clifford, C.K., and Midthune, D.N., 1997. Effect of different types and amounts of fat on the

- Hernandez-Avila, M., 2004. Carbohydrates and the risk of breast cancer among Mexican women. *Cancer Epidemiol Biomarkers Prev.* **13**(8), pp.1283-9.
- Sieri, S., Krogh, V., Muti, P., Micheli, A., Pala, V., Crosignani, P., Berrino, F., 2002. Fat and protein intake and subsequent breast cancer risk in postmenopausal women. *Nutr Cancer.* **42**(1), pp.10-7.
- Smith-Warner, S.A., Spiegelman, D., Adami, H.O., Beeson, W.L., Van den Brandt, P.A and Folsom, A.R., 2001. Type of dietary fat and breast cancer: a pooled analysis of cohort studies. *Int J Cancer.* **92**, pp.767-74.
- Talamini, R., La Vecchia, C., Decarli, A., Franceschi, S., Grattoni, E., Grigoletto, E., Liberati, A. and Tognoni, G., 1984. Social factors, diet and breast cancer in a northern Italian population. *Br. J. Cancer.* **49**, pp. 723-29.
- Toniolo, P., Riboli, E., Protta, M. and Cappa, A.P.M., 1989. Calorie-providing nutrients and risk of breast cancer. *J. Natl. Cancer. Inst.* **81**, pp. 278-86.
- Wakai, K., Dillon, D.S., Ohno, Y., Prihartono, J., Budiningsih, S. and Ramli, M., 2000. Fat intake and breast cancer risk in an area where fat intake is low: a case-control study in Indonesia. *Int J Epidemiology.* **29**, pp. 20-28.
- Willett, W.C., 1998. Dietary Fat and Breast Cancer. Chapter 16. In: Nutritional epidemiology. 2nded. New York: Oxford University Press. pp.377-413.
- Zaridze, D., Lifanova, V., Maximovitch, D., Day, N.E. and Duffy, S.W., 1991. Diet, alcohol consumption and reproductive factors in a case-control study of breast cancer in Moscow. *Int. J. Cancer.* **48**, pp. 493-501.
- pooled analysis. *N Engl J Med.* **334**, pp. 356-61.
- Johnson, R.K., Black, A.E. and Cole, T.J., 1998. Dietary fat intake and risk of coronary heart disease in women. *N. Engl. J. Med.* **338**, pp.918-19.
- Katsouyanni, K., Trichopoulos, A., Stuver, S., Garas, Y., Kritselis, A., Kyriakou, G., Stoikidou, M., Boyle, P. and Trichopoulos, D., 1994. The association of fat and other macronutrients with breast cancer: a case-control study from Greece. *Br.J.Cancer.* **70**, pp. 537-47.
- Nielsen, T.G., Olsen, A., Christensen, J., Overvad, K. and Tjonneland, A., 2005. Dietary carbohydrate intake is not associated with the breast cancer incidence rate ratio in postmenopausal Danish Women. *J Nutr.* **135**, pp.124-128.
- Okamura, M., Yamawaki, S., Akechi, T., Taniguchi, K. and Uchitomi, Y., 2005. The incidence of breast cancer has been increasing remarkably in Japan. *Jpn J Clin Oncol.* **35**(6), pp.302-309.
- Polednak A.P., 1999. Epidemiology of breast cancer in Connecticut women. *Conn. Med.* **63**, pp. 7-16.
- Prentice, R.L., Thompson, D., Clifford, C., Gorbach, S., Goldin, B. and Byar, D., 1990. Dietary fat reduction and plasma estradiol concentration in healthy postmenopausal women. *J. Natl. Cancer. Inst.* **82**, pp. 129-33.
- Prentice, R.L., Kakar, F., Hursting, S., Shepart, L., Klein, R. and Kushi, L.H., 1988. Aspects of the rationale for the woman's Health Trial. *J. Natl. Cancer. Inst.* **80**, pp. 802-14.
- Romieu, I., Lazcano-Ponce, E., Sanchez-Zamorano, L.M., Willett, W. and