## SUPPLEMENTAL MATERIAL

## CLINICAL SUMMARY

With the exception of fish, few major dietary protein sources have been studied in relation to the development of coronary heart disease (CHD). Our objective was to examine the relation between foods which are major dietary protein sources and incident CHD. We prospectively followed 84,136 women aged 30-55 years in the Nurses' Health Study with no known cancer, diabetes, angina, myocardial infarction, stroke, or other cardiovascular disease. During 26 years of follow-up, we documented 2210 incident nonfatal infarctions and 952 deaths from CHD. In multivariate analyses including age, smoking, and other known cardiovascular risk factors, a higher intake of red meat was significantly associated with an elevated risk of CHD. Higher intakes of poultry, fish, and nuts were significantly associated with lower risk. In a model controlling statistically for total energy intake, one serving/day of nuts was associated with a 30% (95% CI: 17% to 42%) lower risk of CHD, when compared to one serving/day of red meat. Similarly, when compared to one serving/day of red meat, one serving/day of low-fat dairy was associated with a 13% (95% CI: 6% to 19%) lower risk, one serving/day of poultry was associated with a 19% (95% CI: 3% to 33%) lower risk, and one serving/day of fish was associated with a 24% (95% CI: 6% to 39%) lower risk. These data suggest that high red meat intake increases risk of CHD, and that risk of CHD may be reduced importantly by shifting the sources of protein in the U.S. diet.

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## Appendix Table: Serving Sizes of Major Protein Sources on Food Frequency Questionnaires in the Nurses' Health Study, 1980-2002

	1980	1984	1986	1990	1994	1998	2002
Milk (incl.	8oz						
skim, 1%,							
2%, whole)							
Cream		1 tbs					
Sour cream		1 tbs					
Yogurt	1 cup						
(incl.							
flavored							
and plain)							
Ice cream	½ cup						
Cottage or	½ cup						
ricotta							
cheese							
Hard cheese	1 slice or						
	svg	1oz svg	1oz svg	1oz svg	1oz svg	1oz svg	1oz svg
Cream		1 oz					
cheese							
Butter	1 pat						
Chicken	6-8oz	4-6oz	4-6oz	4-6oz	4-6oz	3oz	3oz
w/o skin							
Chicken	6-8oz	4-6oz	4-6oz	4-6oz	4-6oz	3oz	3oz
w/skin							

Hamburger	1 patty						
(incl.							
regular and							
lean)							
Hot dog	1 hot dog	1 hot dog	1 hot dog	1 hot dog	1 hot dog	1 hot dog	1 hot dog
	- Hot dog	T not dog	T not dog	T not dog			_
Chicken or					1 chicken	1 chicken	1 chicken
turkey dog					or turkey	or turkey	or turkey
					dog	dog	dog
Processed	1 piece or						
meats	slice	slice	slice	slice	slice		
* Sandwich						1	1
						sandwich	sandwich
* Other							
(sausage,						2oz	2oz
						202	202
kielbasa, et)							
Bacon	2 slices						
Beef, pork,	Not						
lamb	quantified						
sandwich or							
mixed dish							
(stew,							
casserole,							
lasagna, etc)							
Beef, pork,	6-8oz	4-6oz	4-6oz	4-6oz	4-6oz	4-6oz	4-6oz
lamb as							
main dish							
(steak,							
roast, ham,							

etc.)							
Pork as a					4-6oz	4-6oz	4-6oz
main dish							
(eg, ham or							
chops)							
Beef as a					4-6oz	4-6oz	4-6oz
main dish							
(eg, steak or							
roast)							
Liver		3-4oz					
* Beef			4oz	4oz	4oz	4oz	4oz
* Chicken			1oz	1oz	1oz	1oz	1oz
Eggs	1 egg						
Fish	6-8oz						
* Canned		3-4oz	3-4oz	3-4oz	3-4oz	2-3oz	2-3oz
tuna							
* Dark		3-5oz	3-5oz	3-5oz	3-5oz	3-5oz	3-5oz
meat fish							
(mackerel,							
salmon,							
sardines,							
bluefish,							
swordfish)							
* Other fish		3-5oz	3-5oz	3-5oz	3-5oz	3-5oz	3-5oz
(eg, Cod,							
Haddock,							
Halibut)							

* Breaded					1 svg	1 svg	1 svg
fish cakes,							
pieces, or							
fish sticks							
Nuts (incl.	1oz	Small	Small	Small	Small	Small	Small
peanuts,		packet or					
walnuts,		1oz	1oz	1oz	1oz	1oz	1oz
other nuts)							
Beans or	½ cup	½ cup	½ cup	½ cup	½ cup	½ cup	½ cup
lentils,							
baked or							
dry							