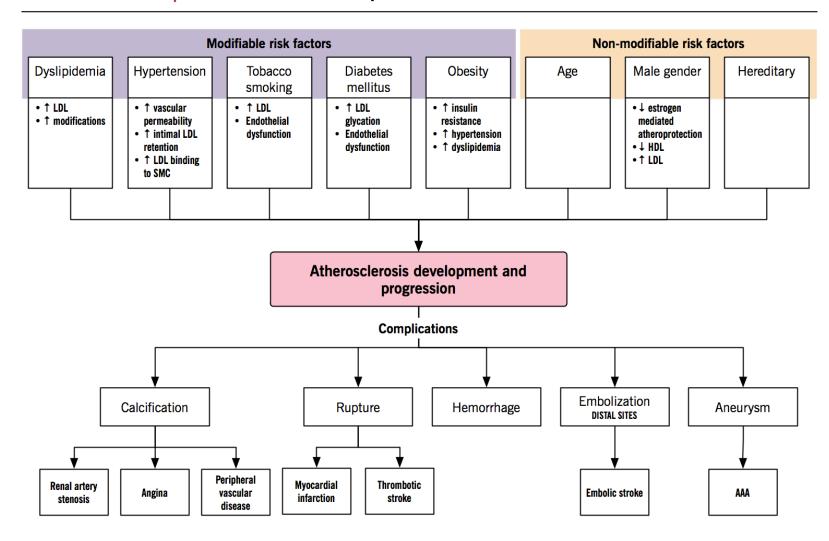
TATALAKSANA GIZI FAKTOR RESIKO PENYAKIT JANTUNG KORONER: OBESITAS DAN DISLIPIDEMIA

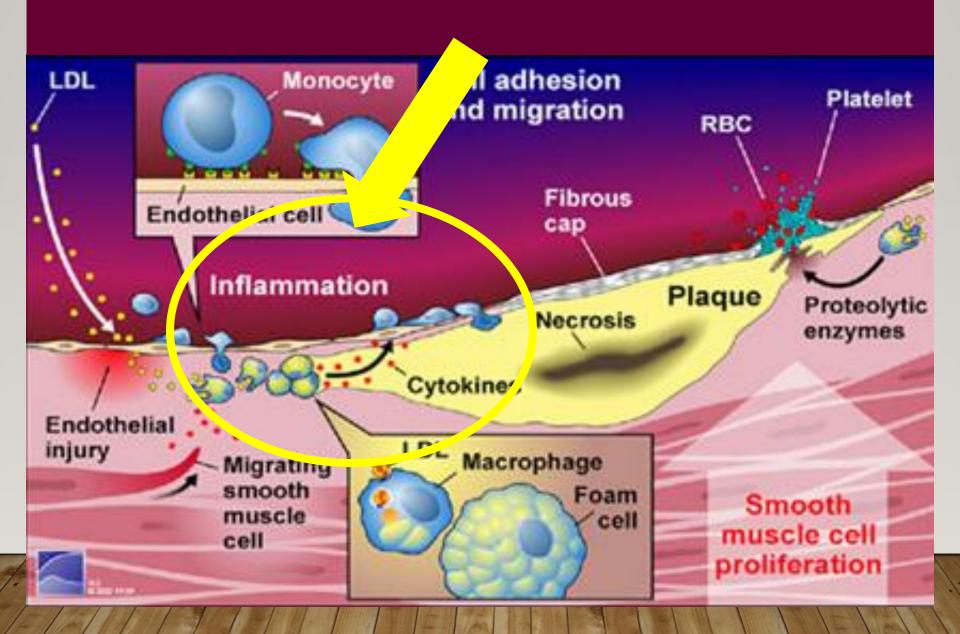
DR. TIRTA PRAWITA SARI, M.SC., SP.GK

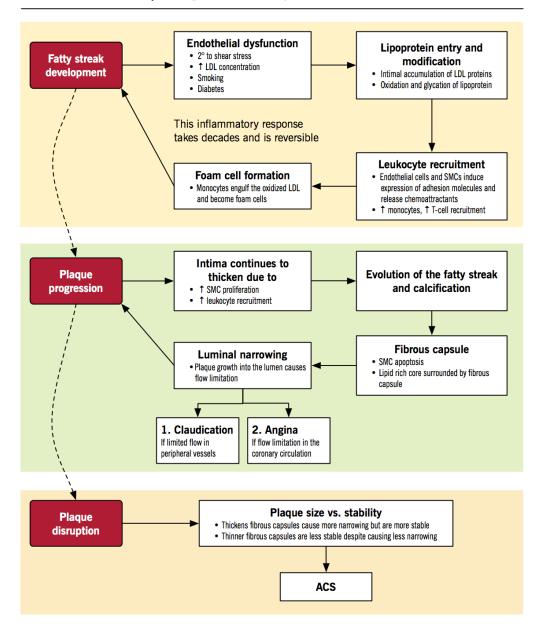


ATHEROSCLEROSIS | Risk factors and complications of atherosclerosis

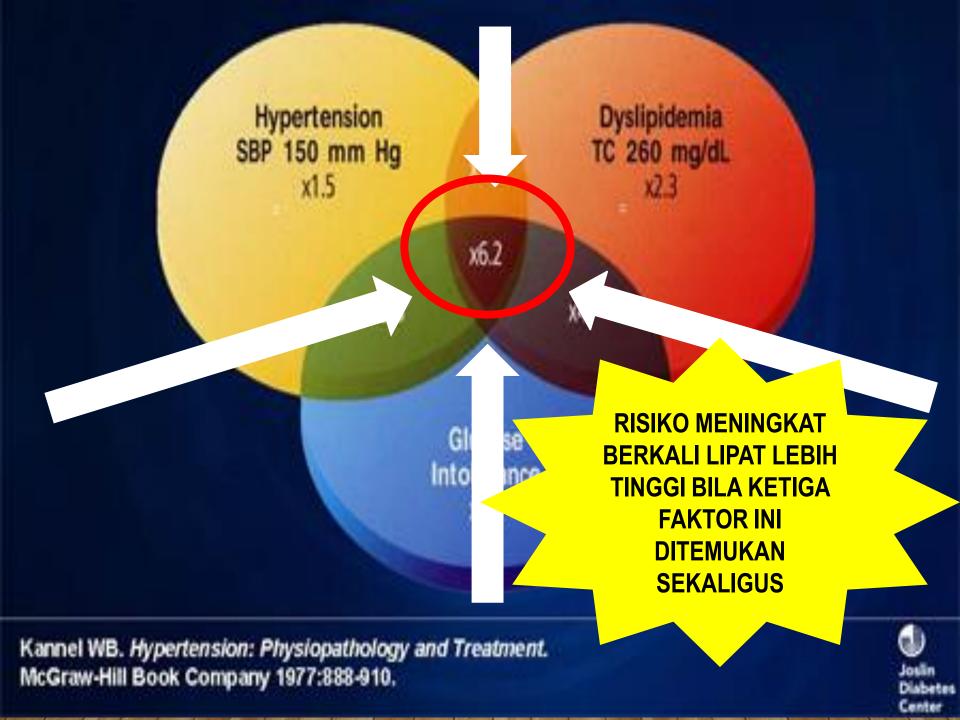


ATEROSKLEROSIS: PENYAKIT INFLAMASI!

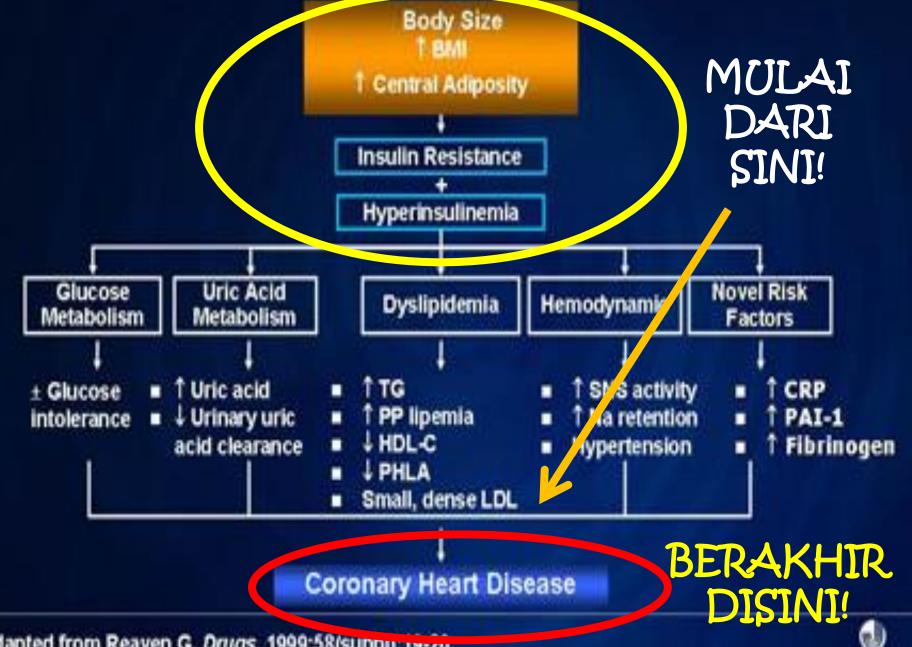




INTI DARI PENCEGAHAN ATEROSKLEROSIS: ATASI INFLAMASI DAN FAKTOR DISLIPIDEMIA





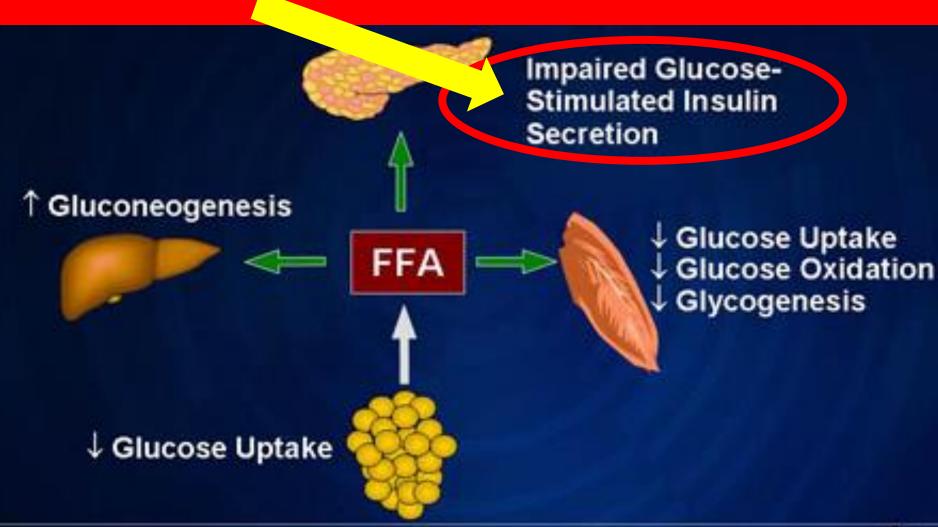


Adapted from Reaven G. Drugs. 1999;58(suppl): 19-20.



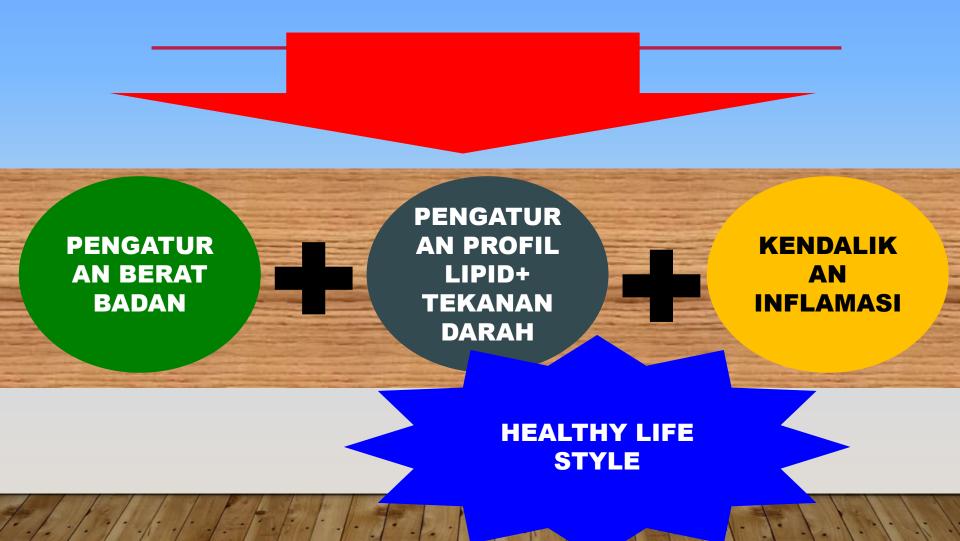
RESISTENSI INSULIN!

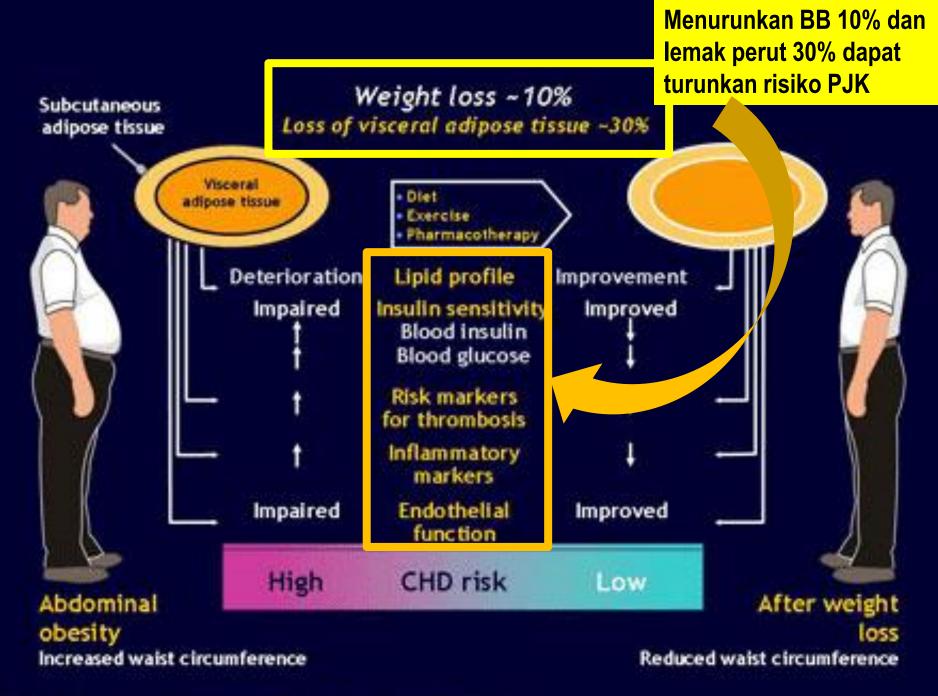
PENINGKATAN KADAR ASAM LEMAK BEBAS: PENYEBAB UTAMA RESISTENSI INSULIN

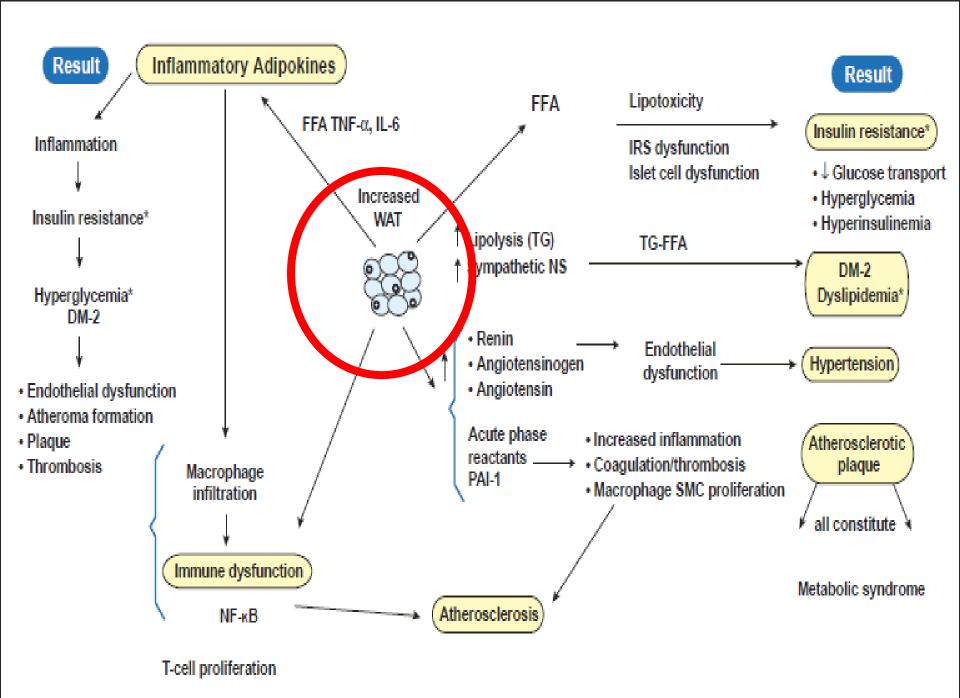




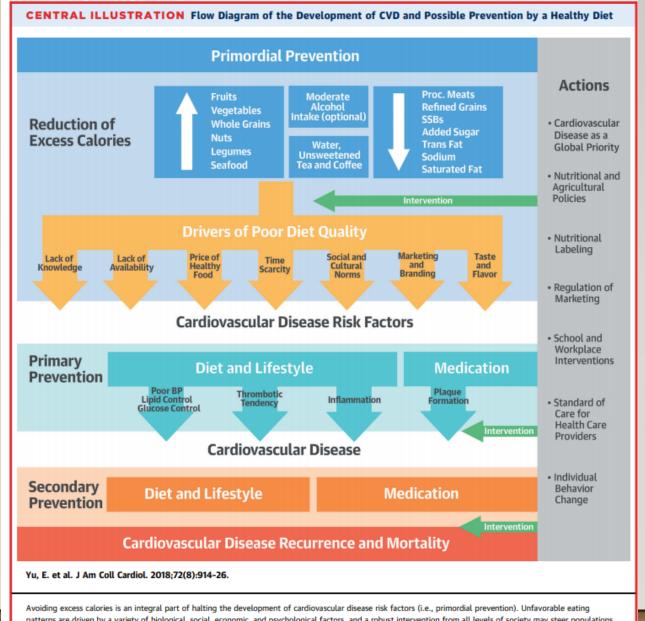
TUJUAN TERAPI GIZI







SEJUMLAH STUDI YANG BERHUBUNGAN DENGAN TERAPI DIET DAN RISIKO PJK



Avoiding excess calories is an integral part of halting the development of cardiovascular disease risk factors (i.e., primordial prevention). Unfavorable eating patterns are driven by a variety of biological, social, economic, and psychological factors, and a robust intervention from all levels of society may steer populations toward a healthier diet and prevent disease progression. Diet and other lifestyle changes remain crucial steps in primary and secondary prevention of cardiovascular disease, although the relative importance of medication and clinical procedures increases over time with disease progression. CVD = cardiovascular disease;

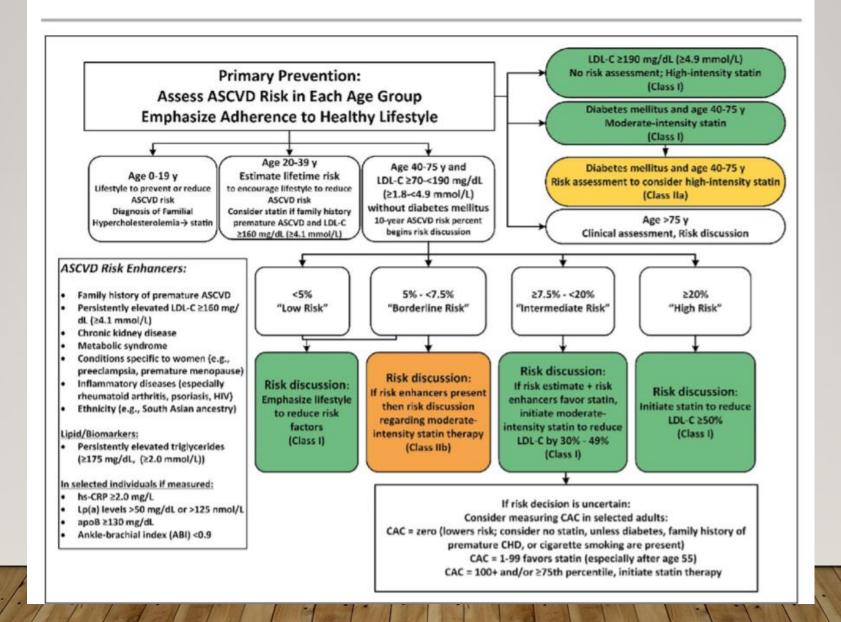
SSB = sugar-sweetened beverage.

.65

FIGURE 1 Summary of Various Meta-Analyses for the Associations of Key Foods and Food Groups, and Dietary Patterns With Incident CVD No. of Dietary Component RR (95% CI) Reference Studies Analysis Unit Outcome Processed Meats Micha 2012 Per 50 g/d CHD Incidence 1.42 (1.08, 1.89) Refined Grains 1.13 (0.90, 1.42) Aune 2016 4 Per 90 q/d CHD Incidence Dairy 0.97 (0.91, 1.02) Guo 2017 8 Per 200 g/d CVD Incidence 17 CHD Mortality Fish 0.94 (0.90, 0.98) Zheng 2012 Per 15 g/d Fruits 0.90 (0.86, 0.94) Aune 2017 24 Per 200 g/d CVD Incidence 0.84 (0.79, 0.90) Aune 2017 20 Per 200 q/d CVD Incidence Vegetables 0.79 (0.70, 0.88) Aune 2016 12 Per 28 g/d CVD Incidence Nuts Whole Grains 0.78 (0.73, 0.85) Aune 2016 10 Per 90 g/d CVD Incidence Beverages Per serv/d CHD Incidence SSBs 1.17 (1.10, 1.24) XI 2015 4 13 CHD Incidence Black Tea 0.98 (0.94, 1.02) Wang 2011 Per 1 cup/d Green Tea 0.90 (0.82, 0.99) Wang 2011 5 Per 1 cup/d CHD Incidence 36 Coffee (3 cups/d) 0.88 (0.83, 0.93) Ding 2014 vs. nondrinkers CVD Incidence Coffee (5 cups/d) 0.91 (0.84, 0.99) Ding 2014 36 vs. nondrinkers CVD Incidence Dietary Pattern Rodriguez-Monforte 2015 5 Western 1.14 (0.92, 1.42) Extreme categories CVD Incidence Salehi-Abargouei 2013 6 DASH 0.80 (0.74, 0.86) Extreme categories CVD Incidence 0.74 (0.72, 0.77) Schwingshackl 2015 6 CVD Incidence AHEI Extreme categories MedDiet 0.71 (0.65, 0.78) Grosso 2015 13 Extreme categories CVD Incidence 0.69 (0.60, 0.78) Rodriguez-Monforte 2015 5 Extreme categories CVD Incidence Prudent

High amounts of processed meat, SSBs, and refined grain consumption are associated with greater CVD incidence; moderate coffee and alcohol intake, and high fruit/ vegetable, dairy (low-fat), whole grain, fish, and nut intake are associated with lower incidence. High adherence to Mediterranean, DASH, AHEI, and Prudent dietary patterns are significantly predictive of lower CVD incidence. AHEI = Alternative Healthy Eating Index; CHD = coronary heart disease; CI = confidence interval; CVD = cardiovascular disease; DASH = Dietary Approaches to Stop Hypertension; MedDiet = Mediterranean diet; RR = risk ratio; SSB = sugar-sweetened beverage.

1.5



Recommendations	NHLB1 Grade	NHLBI Evidence Statements
	DIET	
LDL-C: Advise adults who would benefit from LDL-C lowering* t 1. Consume a dietary pattern that emphasizes intake of	to: A (Strong)	CQ1: ES4 (high), ES6 (low),
vegetables, fruits, and whole grains; includes low-fat dairy products, poultry, fish, legumes, nontropical vegetable oils, and nuts; and limits intake of sweets, sugar-sweetened beverages, and red meats. a. Adapt this dietary pattern to appropriate calorie requirements, personal and cultural food preferences, and nutrition therapy for other medical conditions (including diabetes). b. Achieve this pattern by following plans such as the DASH		ES8 (moderate), ES9 (moderate)
 dietary pattern, the USDA Food Pattern, or the AHA Diet. Aim for a dietary pattern that achieves 5%-6% of calories from saturated fat. 	A (Strong)	CQ1: ES11 (high)
3. Reduce percent of calories from saturated fat.	A (Strong)	CQ1: ES11 (high), ES12 (moderate), ES13 (moderate)
Reduce percent of calories from trans fat.	A (Strong)	CQ1: ES14 (moderate), ES15 (moderate)

RD: Adviso	adulta who	would benefit	from RP	Louisier for
DEC AUVISE	adults who	i would benent		TOWERINE TO:

- 1. Consume a dietary pattern that emphasizes intake of vegetables, fruits, and whole grains; includes low-fat dairy products, poultry, fish, legumes, nontropical vegetable oils, and nuts; and limits intake of sweets. sugar-sweetened beverages, and red meats.
 - a. Adapt this dietary pattern to appropriate calcrie requirements, personal and cultural food preferences, and nutrition therapy for other medical conditions (including diabetes).
 - b. Achieve this pattern by following plans such as the DASH dietary pattern, the USDA Food Pattern, or the AHA Diet.

Lower sodium intake.

a. Consume no more than 2,400 mg of sodium/d;

 b. Further reduction of sodium intake to 1,500 mg/d can result in even greater reduction in BP; and

c. Even without achieving these goals, reducing sodium intake by at least 1,000 mg/d lowers BP.

4. Combine the DASH dietary pattern with lower sodium intake.

A (Strong)

CO1: ES1 (low) ES3 (high). ES5 (high), ES6 (low),

ES7 (low).

ES8 (moderate)

A (Strong)

CO2: ES1 (high).

ES2 (moderate),

ES3 (high), ES4 (high), ES5 (high), ES8 (low),

ES9 (low)

B (Moderate)

CO2: ES2 (moderate).

ES3 (high)

A (Strong)

CO1: ES3 (high), ES5 (high),

ES8 (moderate)

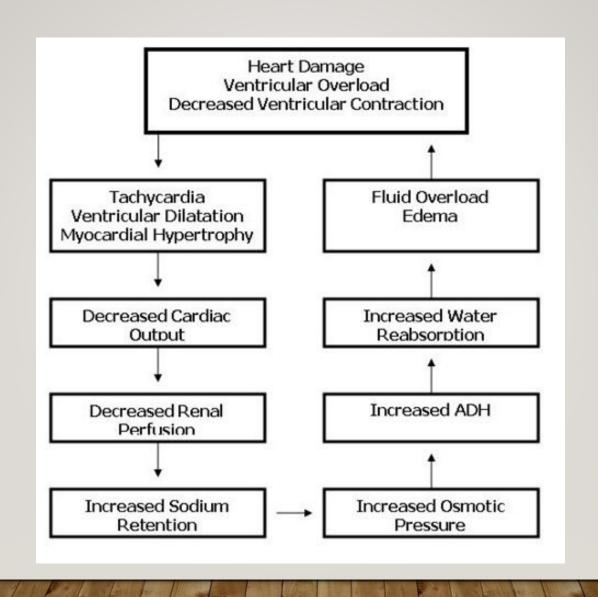
CQ2: ES1 (high),

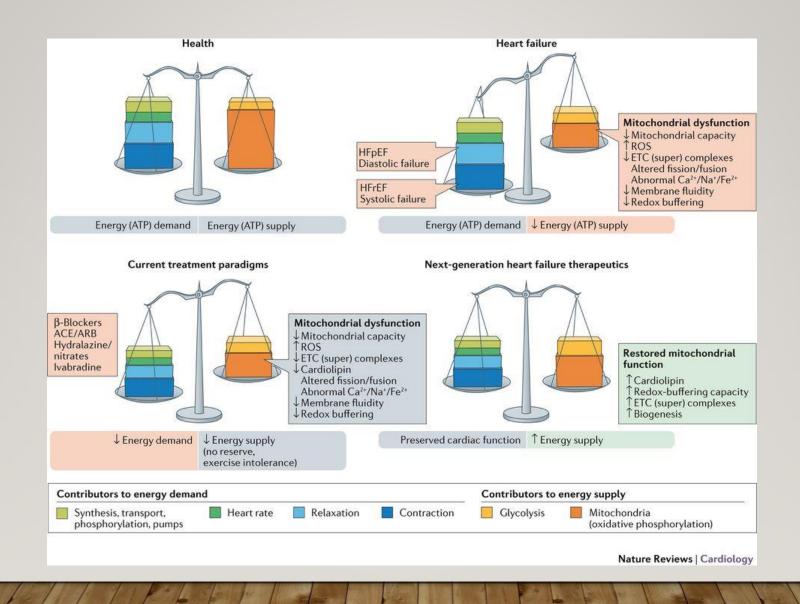
ES2 (moderate).

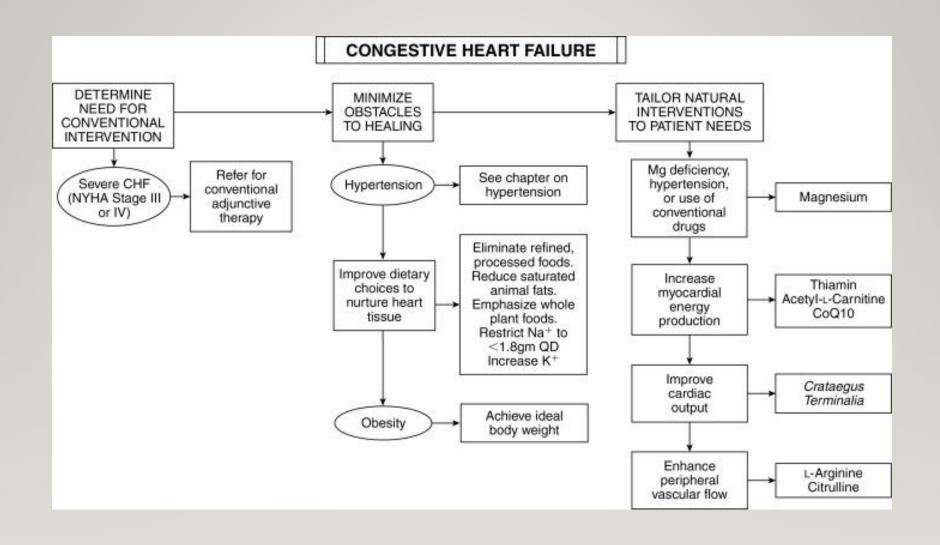
ES3 (high), ES4 (high),

ES5 (high), ES6 (moderate)

		PHYSICAL AC	TIVITY
	In general, advise adults to engage in aerobic physical activity to reduce LDL-C and non-HDL-C: 3-4 sessions per wk, lasting on average 40 min per session, and involving moderate- to vigorous-intensity physical activity.	B (Moderate)	CQ3: ES1 (moderate), ES2 (moderate), ES5 (low)
BP 1	In general, advise adults to engage in aerobic physical activity to lower BP: 3-4 sessions per wk, lasting on average 40 min per session, and involving moderate- to vigorous-intensity physical activity.	B (Moderate)	CQ3: ES1 (high)







Rasio PUFA/SFA > 0,28 berhubungan dengan Table V.2-1 Fe **Pemilihan** rendahnya kematian akibat Changes (1) +pembatasan jenis PJK pada laki-laki namun lemak: kurangi Componen tidak pada perempuan trans fatty acid! LDL-raising nutrie Saturated fats* Less than 7% of total calories Dietary cholesterol Less than 200 mg/day Therapeutic options for LDL lowering Plant stanols/sterols 2 grams per day Increased viscous 10-25 grams per day (soluble) fiber Serat makanan Total calories a caloric intake to (serat larut) + flavonoid → kacang Flavonoids menghambat kedelai! enzim COX-2 dan iNOS dlm Physical activity memproduksi protaglandin exercis dan nitric oxide = suatu kcal pe proinflamasi yang poten Trans fatty acids are another LDL-raising fat tha

Table V.2-2. Macronutrient TLC Diet Component	Rasio PUFA lebih bermakna dalam prevensi C daripada jumlah asupan Rasio PUFA omega-3/omega-6 = 4/1 secara bermakna menurunkan kematian pada 70% penderita CVD	
Polyunsaturated fat	Up to 10% of total calories	
Monounsaturated fat	Up to 20% of total calories	
Total fat	25-35% of total calories*	
Carbohydrate†	50-60% of total calories*	
Dietary fiber	20-30 grams per day	

Protein A

 ATP III allows an increase of total fat reduction in carbohydrate to 50 perc syndrome. Any increase in fat intake polyunsaturated or monounsaturated Serat makanan terbukti menurunkan kadar marker inflamasi . Penurunan berbanding terbalik dengan jumlah asupan serat harian.

ala DUEA labib bannalara dalam massa.

† Carbohydrate should derive predominancy from roods from in complex carbohydrates including grains—especially whole grains—fruits, and vegetables.

The Canadian Trial of Carbohydrates in Diabetes (CCD), a 1-y controlled trial of low-glycemic-index dietary carbohydrate in type 2 diabetes: no effect on glycated hemoglobin but reduction in C-reactive protein^{1–3}

Thomas MS Wolever, Alison L Gibbs, Christine Mehling, Jean-Louis Chiasson, Philip W Connelly, Robert G Josse, Lawrence A Leiter, Pierre Maheux, Remi Rabasa-Lhoret, N Wilson Rodger, and Edmond A Ryan

ORIGINAL ARTICLE

Whole-Grain, Bran, and Cereal Fiber Intakes and Markers of Systemic Inflammation in Diabetic Women

Lu Qi, md, phd^{1,2} Rob M. van Dam, phd¹ Simin Liu, md, phd³

MARY FRANZ, MS¹
CHRISTOS MANTZOROS, MD, PHD⁴
FRANK B. Hu, MD, PHD^{1,2,3}

Relations of Dietary Magn Biomarkers of Inflammatic Endothelial Dysfuncti Diverse Cohort of Postn

SARA A. CHACKO, MPH¹ YIQING SONG, MD, SCD² LAUREN NATHAN, MD³ LESLEY TINKER, BHID⁴ IAN H. DE BOER, MD⁵
FRAN TYLAVSKY, DRPH⁶
ROBERT WALLACE, MD⁷
STATE I W. MD, CCD^{1,8}

Epidemiology/Health Services Research

Magnesium Intake in Relation to Systemic Inflammation, Insulin Resistance, and the Incidence of Diabetes

DAE JUNG KOM, MD^{1,2,3} PENGCHENG KUN, MD, PHD^{1,2} KIANG LEU, PHD⁴ CATHERINE LORIA, PHD³ Kennoru Yokota, md, md^{*} David R. Jacobs Ju., md^{7,8} Ka He, md, sco^{1,9} mechanisms underlying the beneficial effects of magnesium intake on diabetes are not fully understood. Cross-sectional studies have suggested an invense correlation between magnesium intake and in-

Serum C-Reactive Protein Concentrations Are Inversely Associated with Dietary Flavonoid Intake in U.S. Adults¹

Ock Kyoung Chun, 24 Sang-Jin Chung, 3 Kate J. Claycombe, 2 and Won O. Song2*

Anti-inflammatory properties of dietary flavonoids

J. González-Gallego, S. Sánchez-Campos y M. J. Tuñón

Ciberehd and Institute of Biomedicine. University of Leon. Spain.

The Importance of the Omega-6/Omega-3
Fatty Acid Ratio in Cardiovascular Disease
and Other Chronic Diseases

ARTEMIS P. SIMOPOULOS¹
or Genetics, Nutrition and Health, Washington, DC 20009

Sejumlah hasil penelitian masih inkonklusif

parv heart disease risk:

Reilly, Katarina Augustsson, Gary E Fraser, Uri Goldbourt, Pietinen, Donna Spiegelman, June Stevens, Jarmo Virtamo,

et or exercise: what is more effective in preventing or reducing metabolic alterations?

Simona Bo, Giovannino Ciccone¹, Sabrina Guidi, Roberto Gambino, Marilena Durazzo, Luigi Gentile², Maurizio Cassader, Paolo Cavallo-Perin and Gianfranco Pagano

Department of Internal Medicine, University of Turin, Corso Dogliotti 14, 10126 Turin, Italy, ¹Unit of Epidemiology, S. Glovanni Batti sia Hospital, Turin, Italy and ²Diabetic Clinic, Hospital of Asti, Italy

(Correspondence should be addressed to S Ba; Email: sho@molinetie.piemonte.it)

Dietary Fat Predicts Coronary Heart Disease Events in Subjects With Type 2 Diabetes

MINNA SOINIO, MD¹ MARKKU LAAKSO, MD² SEPPO LEHTO, MD² PAULA HAKALA, PHD³
TAPANI RÖNNEMAA, MD¹

with type 2 diabetes who were free from CHD at baseline.

DESEADON DESIGN AND

Relations of Dietary Magnesium Intake to Biomarkers of Inflammation and **Endothelial Dysfunction in an Ethnically Diverse Cohort of Postmenopausal Women**

Asupan magnesium berbanding terbalik dgn kadar marker inflamasi dan disfungsi endotel pada wanita pasca menopause Diabetes Care 33:304-310, 2010

Am J Clin Nutr 2004:80:1508

Antioxidant vitamins and coronary heart disease risk: a pooled analysis of 9 cohorts1-3

Paul Knekt, John Ritz, Mark A Pereira, Eilis J O'Reilly, Katarina Augustsson, Gary E Fraser, Uri Goldbourt. Berit L Heitmann, Göran Hallmans, Simin Liu, Pirjo Pietinen, Donna Spiegelman, June Stevens, Jarmo Virtamo, Walter C Willett, Eric B Rimm, and Alberto Ascherio

Konsumsi suplemen vitamin C > 700 mg/hari memiliki efek protektif terhadap penyakit PJK., namun tidak demikian pada konsumsi vitamin E dan carotene

European Journal of Endocrinology (2008) 159 685-691

CLINICAL STUDY

Diet or exercise: what is more effective in preventing or reducing metabolic alterations?

Simona Bo, Giovannino Ciccone¹, Sabrina Guidi, Roberto Gambino, Marilena Durazzo, Luigi Gentile², Maurizio Cassader, Paolo Cavallo-Perin and Gianfranco Pagano

Department of Internal Medicine, University of Turin, Corso Dogliotti 14, 10126 Turin, Italy, Unit of Epidemiology, S. Giovanni Battista Hospital, Turin, Italy and ²Diabetic Clinic, Hespital of Asti, Asti, Italy

(Correspondence should be addressed to S Bax Email: sho@imolinette.niemante.it)

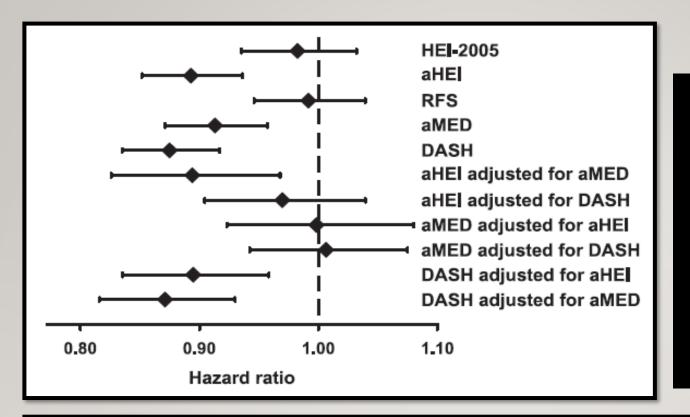
ISSN 0804-4643

PENGARUH BERBAGAI JENIS MAKANAN TERHADAP PENURUNAN RISIKO PJK

	(
	Food	Study duration		Effect
	Extra virgin olive oil	1 meal	Decreased TXB2 and LTB4 in c	comparison with corn oil, non-virgin olive oil
	Tomato juice	10 days	Reduced neutrophil airway infl	lux in asthmatics
	Tomato drink	26 days	Reduced TNF-α production by	y whole blood
	Whole tomatoes	28 days	No change in CRP	Tomat dalam bentuk jus
	Walnuts	1 meal	Decreased monocyte molevels	atau minuman dpt turunkan kadar marker
	Red wine	4 weeks	Reduced CRP and fib	inflamasi drpd tomat
	Garlic powder	3 months	No effect on CRP, TNF-α	utuh
	Flaxseed flour	2 weeks	Reduced CRP, fibronectin and	serum amyloid A. a obese subjects
Tea, black 12 weeks 40-50% reduction of CRP in subjects with CRP>3 mg/L				ubjects with CRP>3 mg/L
	Tea, black	6 weeks	Decreased CRP and platelet as	ggregation in healthy men
	Tea, green	4 weeks	No effect on CRP in men	
	Tea, green	4 weeks	No significant effect	Teh hitam lebih baik
	Cherries, sweet	4 weeks	Reduced CRP and	dalam menurunkan
	CCL5, chemokine (c-c motif) ligand 5; CRP, c-reactive protein; II TNF, tumor-necrosis factor.		marker inflamasi pada pria daripada teh hijau	
INX tunyor-decrosis lactor				

(Che) chemokine (er molif) ligand >; (RP, er reactive protein 11., interiduking mR/A, the seenged ribordicleid acid/ IXB/ thros

PENGARUH BERBAGAI JENIS DIET TERHADAP PENURUNAN FAKTOR RISIKO PJK



HEI: HEALTHY EATING
INDEX
RFS = RECOMMENDED
FOOD SCORE
AMED = ALTERNATIVE
MEDITERRANEAN DIET
DASH = DIETARY
APPROACH TO STOP
HYPERTENSION

CONCLUSIONS—Several diet-quality scores were associated with a lower risk of type 2 diabetes and reflect a common dietary pattern characterized by high intakes of plant-based foods such as whole grains; moderate alcohol; and low intakes of red and processed meat, sodium, sugar-sweetened beverages, and *trans* fat. High-quality diets may yield the greatest reduction in diabetes cases when followed by those with a high BMI.

KOMPONEN DIET

- Minyak zaitun sebagai sumber lemak utama
- Konsumsi tinggi dari buah sayur, kacang-kacangan, sereal dan ikan serta red wine saat makan

Karakteristik

Tinggi omega 3 = 1% energi total Rendah omega 6 Rasio omega 3/omega 6 rendah = 1/7





The DASH diet (Dietary Approaches to Stop Hypertension) has been shown to help lower blood pressure and prevent heart disease, stroke, diabetes and even some forms of cancer. It focuses on eating more fresh fruits and vegetables.

This is a guide to how much of each food group you should eat every day, based on eating 2,000 calories per day.

Five colour food



	emical Contained in of Fruits and Vegetables
Purple	grapes, eggplant, blueberry, purple sweet potato anthoxanthins, resveratrol Effect – antioxidant effect, suppression and detoxification of carcinogens
Red	tomato, watermelon, strawberry, cherry Lycopene Effect – suppresses prostate cancer, lung cancer
Green	broccoli, spinach, avocado, green grapes, kale Lutein, sulforaphane Effect – prevents cancer formation and development
Yellow, Orange	orange, tangerine, carrot, pumpkin flavonoid Effect – prevents recurrence of breast cancer
White	garlic, onion, mushroom allicin, quercetin Effect – powerful anti-bacterial effect, prevents stomach cancer

Following the DASH Eating Plan

Use this chart to help clients plan their menus—or take it with them when they go to the store.

Food group	Servings per day			Serving sizes	Examples and notes	Significance of each food group to the DASH
	1,600 kcal	2,000 kcal	2,600 kcal			eating plan
Grains*	6	6-8	10-11	1 slice bread 1 oz dry cereal 1/2 cup cooked rice, pasta, or cereal	Whole wheat bread and rolls, whole wheat pasta, English muffin, pita bread, bagel, cereals, grits, oatmeal, brown rice, unsalted pretzels and popcorn	Major sources of energy and fiber
Vegetables	3-4	4-5	5-6	1 cup raw leafy vegetable ½ cup cut-up raw or cooked vegetable ½ cup vegetable juice	Broccoli, carrots, collards, green beans, green peas, kale, lima beans, potatoes, spinach, squash, sweet potatoes, tornatoes	Rich sources of potassium, magnesium, and fiber
Fruits	4	4-5	5-6	1 medium fruit % cup dried fruit % cup fresh, frozen, or canned fruit % cup fruit juice	Apples, apricots, bananas, dates, grapes, oranges, grapefruit, grapefruit juice, mangoes, melons, peaches, pineapples, raisins, strawberries, tangerines	Rich sources of potassium, magnesium, and fiber
Fat-free or low- fat milk and milk products	2–3	2-3	3	1 cup milk or yogurt 1½ oz cheese	Fat-free (skim) or low-fat (2%) milk or buttermilk; fat-free, low-fat, or reduced-fat cheese, fat-free or low-fat regular or frozen yogurt	Major sources of calcium and protein
Lean meats, poultry, and fish	3-6	6 or fewer	6	1 oz cooked meats, poultry or fish 1 egg	Select only lean meats; trim away visible fat; broil, roast, or poach; remove skin from poultry	Rich sources of protein and magnesium
Nuts, seeds, and legumes	3 per week	4-6	1	% cup or 1% oz nuts 2 T peanut butter 2 T or % oz seeds % cup cooked legumes (dry beans and peas)	Almonds, hazelnuts, mixed nuts, peanuts, walnuts, sunflower seeds, peanut butter, kidney beans, lentils, split peas	Rich sources of energy, magnesium, protein, and fiber
Fats and oils	2	2–3	3	1 tsp soft margarine 1 tsp vegetable oil 1 T mayonnaise 2 T salad dressing	Soft margarine, vegetable oil (such as canola, corn, olive, or safflower), low-fat mayonnaise, light salad dressing	The DASH study had 27% of calories as fat, including fat in or added to foods
Sweets and added sugars	0	5 or fewer per week	≤2	1 T sugar 1 T jelly or jam % cup sorbet, gelatin 1 cup lemonade	Fruit-flavored gelatin, fruit punch, hard candy, jelly, maple syrup, sorbet and ices, sugar	Sweets should be low in fat

^{*} Whole grains are recommended for most grain servings as a good source of fibers and nutrients.

[†] Serving sizes vary between 1/2 cup and 11/2 cups, depending on cereal type. Check the product's Nutrition Facts label.

[‡] Because eggs are high in cholesterol, limit egg yolk intake to no more than four per week; two egg whites have the same protein content as 1 oz of meat.

[§] Fat content changes serving amount for fats and oils. For example, 1 T of regular salad dressing equals one serving; 1 T of a low-fat dressing equals one-half serving; and 1 T of a fat-free dressing equals zero servings.

The key risk factors for cardiovascular disease

Every 10 mmHg reduction in systolic blood pressure significantly reduces the risk of major cardiovascular disease events, including average relative risk reductions of 20% for CHD, 27% for stroke, and 28% for heart failure¹¹

For every 1 mmol/L decrease in total cholesterol, people can reduce their relative risk for CVD-related mortality by 24.5%, and by 29.5% for any CVD event¹²

Over 20% of all hypertension – a major risk factor for CVD – is linked to alcohol misuse. Only 1 in 5 people with hypertension are assessed for their alcohol use by their GPs^{13,14}



KESIMPULAN

- Pola makan mempengaruhi inflamasi sistemik kronik, low grade.
- Berbagai evidens menunjukkan konsumsi PUFA (disertai dengan memperhatikan rasio-nya), serat, MUFA, flavonoids, antioksidan berhubungan dengan penurunan marker inflamasi.
- Diet mediterania dan DASH berhubungan dengan penurunan risiko PJK





Concept Paper

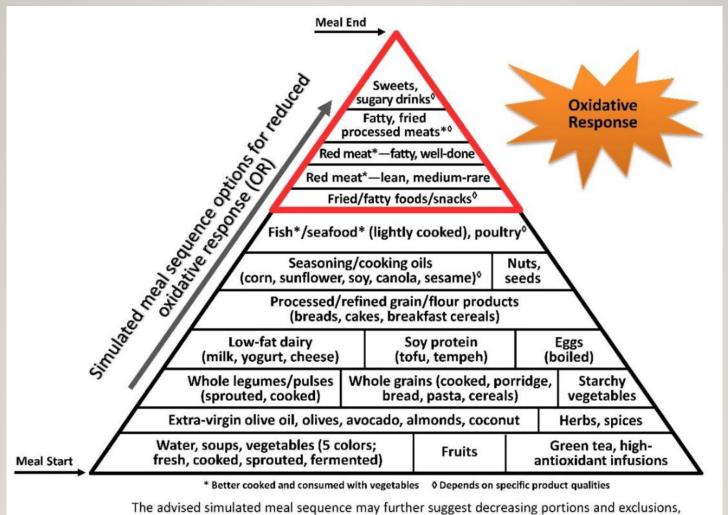
The Metabolic Concept of Meal Sequence vs. Satiety: Glycemic and Oxidative Responses with Reference to Inflammation Risk, Protective Principles and Mediterranean Diet

Niva Shapira

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The advised simulated meal sequence may further suggest decreasing portions and exclusions, especially of foods towards the upper levels (inside the red triangle).

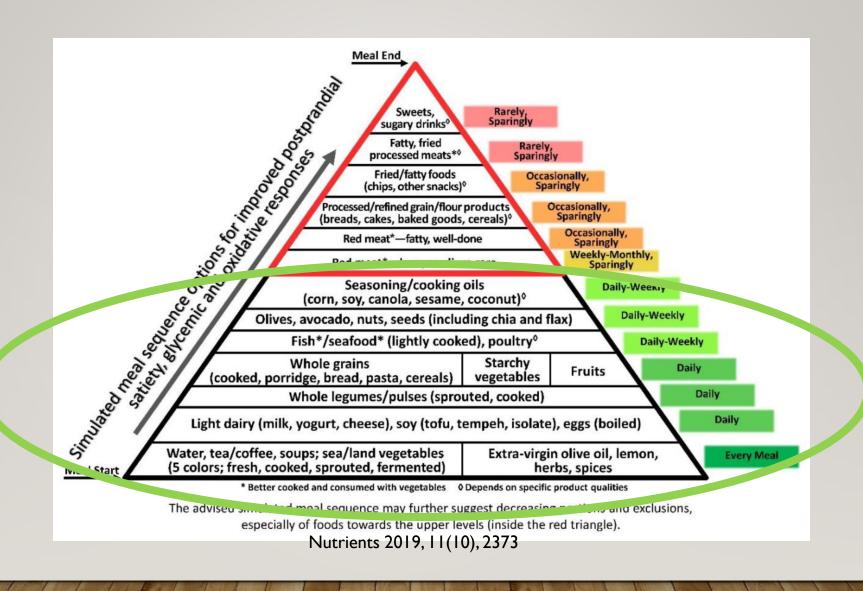
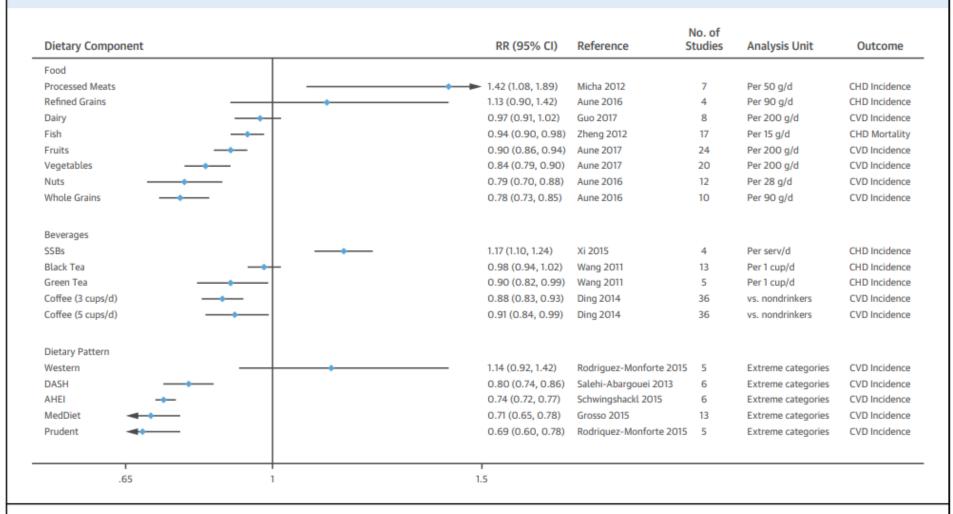


FIGURE 1 Summary of Various Meta-Analyses for the Associations of Key Foods and Food Groups, and Dietary Patterns With Incident CVD



High amounts of processed meat, SSBs, and refined grain consumption are associated with greater CVD incidence; moderate coffee and alcohol intake, and high fruit/vegetable, dairy (low-fat), whole grain, fish, and nut intake are associated with lower incidence. High adherence to Mediterranean, DASH, AHEI, and Prudent dietary patterns are significantly predictive of lower CVD incidence. AHEI = Alternative Healthy Eating Index; CHD = coronary heart disease; CI = confidence interval; CVD = cardiovascular disease; DASH = Dietary Approaches to Stop Hypertension; MedDiet = Mediterranean diet; RR = risk ratio; SSB = sugar-sweetened beverage.