PREVENTION AND MANAGEMENT OF DIABETES IN PRIMARY CARE

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INTERNAL MEDICINE – PRIMARY CARE

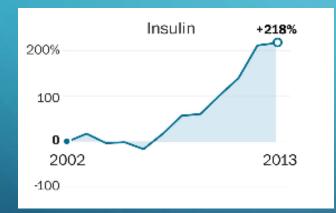
KAISER PERMANENTE NORTHWEST

OVERVIEW

- Diabetes and prevention of diabetes takes up a significant and growing part of our practice
- The epidemic is growing: cost of diabetes increased 26% from 2012 to 2017
- The medicines are getting more expensive
- Kaiser Permanente offers many resources to support this work
- PCPs are not always aware of/able to readily access these services
- PCPs are not always clear on what dietary approaches are being recommended

CASE STUDY: INSULIN

- We're using more:
 - Our insulin dispenses have roughly doubled since 2004
- It costs more:
 - Insulin list prices have nearly tripled between 2002 and 2013
 - Brand names like Lantus are six times as expensive



Why treating diabetes keeps getting more expensive, Washington Post oct 31 2016

Revisiting NPH Insulin for Type 2 Diabetes Is a Step Back the Path Forward? JAMA. 2018;320(1):38-39.

LIFE OF THE PCP

- 20 minute office visits, 10-15 minute phone visits
- FPs address average of 5 problems per visit for patients with DM
- The "tyranny of the urgent" vs preventative tasks
 - To fully satisfy the USPSTF recommendations, for 2500 pt panel would generate 7.4 hours of work/day
 - PCP with 2000 pts would need 17.4 hr/d to provide all recommended acute, chronic and preventative care

Primary Care: current problems and proposed solutions, Health Affairs, May 2010 Primary Care: Is There Enough Time for Prevention? Am J Public Health, April 2003

OUR MANY HELPERS AND RESOURCES

- Helpers:
 - glycemic nurses
 - pharmacists
 - nutritionists
 - health coaches

• Resources: classes, webinars, booklets, self directed modules

PREDIABETES

- In order to prevent diabetes, the American Diabetes Association recommends:
 - Modest weight loss (5-10% of body weight)
 - Moderate intensity exercise (30 minutes 5 days per week)
 - Smoking cessation
- The Diabetes Prevention Program trial showed that when successfully implemented, these changes reduce the risk of incidence of diabetes by 58%.

Diabetes: ADA Releases Revised Position Statement on Standards of Medical Care, Am Fam Physician. 2018 Aug 1;98(3):187-188.

PREDIABETES: OUR LOCAL PROJECT

The problem:

- approximately 800 EIN PC patients who have been identified as at risk for diabetes. (A1c>5.7)
- Currently no outreach other than provider education (variable)

Our solution:

- Outreach by phone/email to those with A1c 6.1-6.4 in last year
- Offered health coaching, classes, or RN/BHC visit

PREDIABETES: OUR LOCAL PROJECT- RN VISITS

Initial visit: 60 minutes with RN to review history, give education, make plan

- What is DM: types, how dx, complications
 - Alc
 - Dietary recommendations
 - Exercise recommendations
- Set behavioral SMART goal (Specific, Measurable, Attainable, Relevent, Time based) around diet and/or exercise
 - Ex: I will walk 15 minutes three times per day for 2 weeks
- Decide on tracking program (app (lose it, my fitness app, spark people) diary)

PREDIABETES: OUR LOCAL PROJECT- RN VISITS Follow up visits:

- Set up follow up plan (TAV vs OFV) with RN or BHC or health coach
 - 1-3 months: OFV/video q2 weeks with phone check in on off weeks
 - > 3 months: monthly OFV or TAV
- Set up lab frequency: A1c q3 or 6 month
- Review PST to identify and close care gaps: Immunizations, labs (A1c, kidney function), LOPS, diabetic retinopathy eye screening, etc.
- Consider other departments or disciplines that may be working with diabetic patients to avoid duplication or overlap (DM Case Manager, Pharmacy)
- Review pt education resources

DIETARY ADVICE TO PREVENT CVD

- It works
- We don't do it
 - Only 1 in 5 high risk patients (CVD, DM, hyperlipidemia) receive nutrition counseling in their visits
- We haven't been trained to do it
 - Only 25% of medical schools offer a dedicated nutrition course
- It's a teachable skill
- Patients want it
- It can avoid disease and unnecessary medication use
- ADA and USPTF say: Do It!

Nutrition counseling in clinical practice: how clinician can do better JAMA sept 26 2017 vol 318, no 12

BUT WHAT IS GOOD NUTRITION?

ADA consensus recommendations:

- Promote healthy eating patterns, emphasize variety of foods in appropriate portion sizes
 - Healthy eating patterns = DASH, Mediterranean, plant based
- Address individual nutrition needs
- Maintain pleasure of eating
- Give practical tools to develop healthy eating patterns rather than focusing on individual macronutrients, micronutrients, or single foods.

ADA Standards of medical care in diabetes- 2018 Diabetes Care, Jan 2018

Management of Hyperglycemia in Type 2 Diabetes, 2018. A Consensus Report by the American Diabetes Association (ADA) and the European Association for the Study of Diabetes (EASD)

BUT WHAT IS GOOD NUTRITION?

ADA Standard of medical care...some mixed messages

This is true	but so is this	
"Monitoring carbohydrate	"There is not an ideal percentage of calories	
intake is key for improving	from carbohydrate, protein, and fat for all	
postprandial glucose control"	people with diabetes"	
Eat nutrient dense foods:	Restrict calories:	
• whole grains, vegetables,	• Women: 1200–1500 kcal/d	
fruits, legumes, nuts, seeds	• Men: 1500-1800 kcal/d	
 low fat dairy, lean meats 		
"Limit saturated fat"	"Ideal amount of fat for DM is controversial"	
	Ideal amount of fail for DM is confroversial	

BUT WHAT IS GOOD NUTRITION?

What's good for you

- Exercise cardiovascular
- Relationships
- Sleep

What's probably not good for you

- Sugar
- Refined carbohydrates
- Alcohol > 1-2/d
- Trans fats

Debate over:

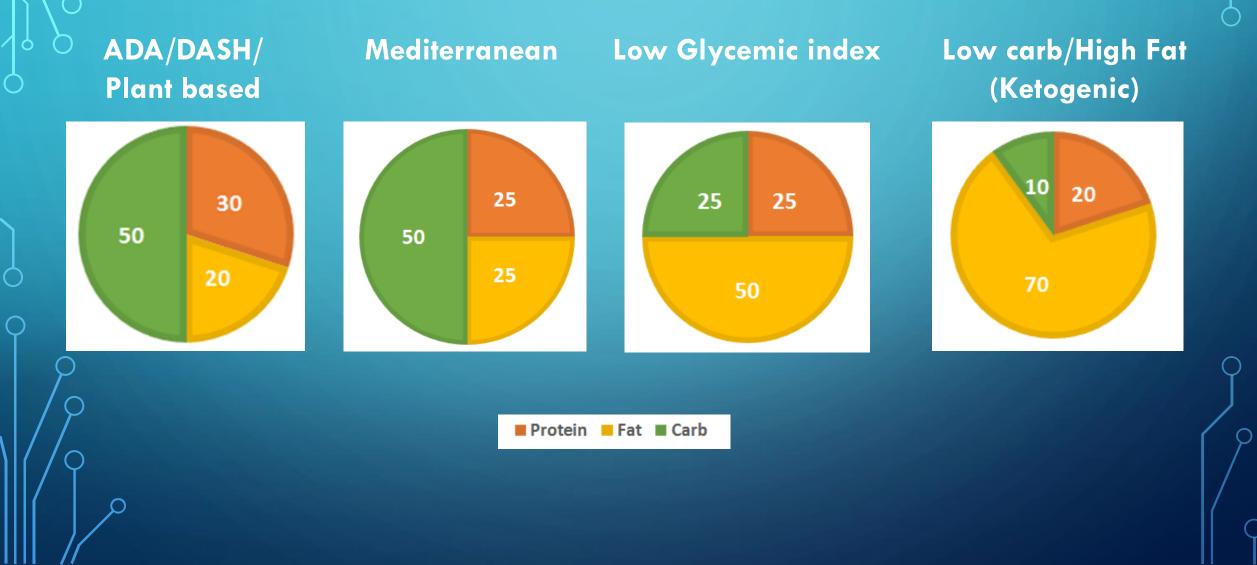
- Fats Saturated: effect on weight gain/DM/CVD disease
- Salt: Ideal intake
- Carbs: amount for diabetic
- Calorie restriction: as a long term weight management strategy
- Safety and sustainability of ketogenic diet

Dietary and Policy Priorities for Cardiovascular Disease, Diabetes, and Obesity: A Comprehensive Review. <u>Mozaffarian D</u>. Circulation. 2016 Jan

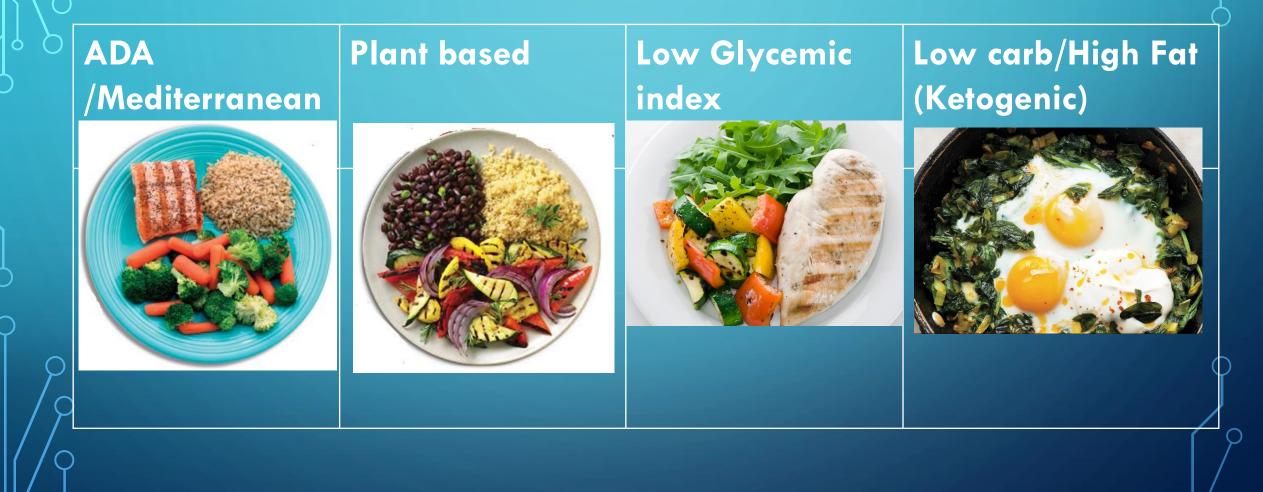
DIFFERENT DIETARY APPROACHES

Eating pattern	Calorie restriction?	Fat restriction?
ADA/Plant based/DASH	Yes	Yes - saturated
Mediterranean	Yes	Yes – saturated (More monounsaturated)
Low Glycemic Index	No	Maybe - saturated
Low carbohydrate/high fat {Ketogenic)	No	No

DIFFERENT DIETARY APPROACHES: MACRONUTRIENT BALANCE



DIFFERENT DIETARY APPROACHES:



GRATITUDE

- Patients=Why we are here + need to be better
- Teachers=Aspiration
 - Jeff Stanley, MD
 - Stephanie Fitzpatrick, PhD
 - David Ludwig, MD
- Colleagues=Inspiration
 - Keith Bachman, MD
 - Andrea Payne-Osterlund, MD
 - Emily Doss, MD
 - Neil Blair, MD
 - Marie Johnson, RD
 - Paula Winch, Health coach
 - Heidi Rolfs, RN