

## Welcome to Today's Program!

## Precision Medicine is Here: Preventing Metabolic Disease with Food As Medicine

**September 10, 2020** 



## Thank you to our Affiliate Member and Sponsor!



#### **Presenters**



#### **Josh Stevens**

is a healthcare executive with a 25-year track record building teams and scaling companies in the tech and healthcare sectors. Josh is President of Day Two.







Alan Spiro, M.D., F.A.C.N. is a healthcare leader with over 30 years of experience with Blue Cross Blue Shield, Accolade, Anthem and Willis Towers Watson.









## Respondents



Jan Berger, M.D.
is a tri-sector healthcare executive with
over 30 years of experience with CVS
Health, Mid-West Business Group on
Health, and Health Intelligence Partners.





Jack Mahoney, M.D.
is a healthcare strategist and employee
health expert who has served as Strategic
Healthcare Initiatives Director at Pitney
Bowes. He currently serves as Medical
Director at the Florida Alliance.



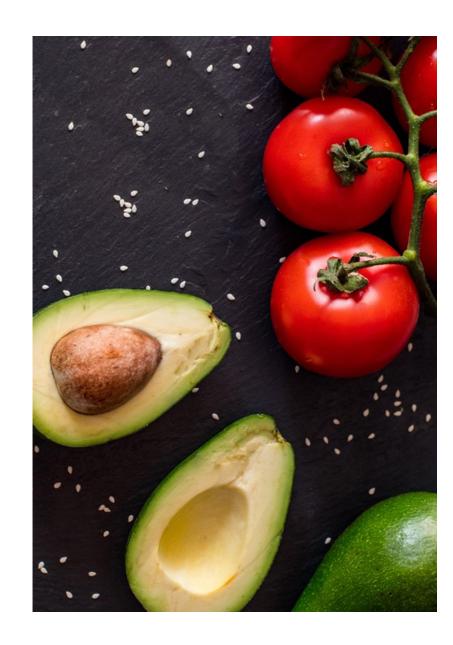


# Precision Medicine is Here Preventing Metabolic Disease with Food As Medicine



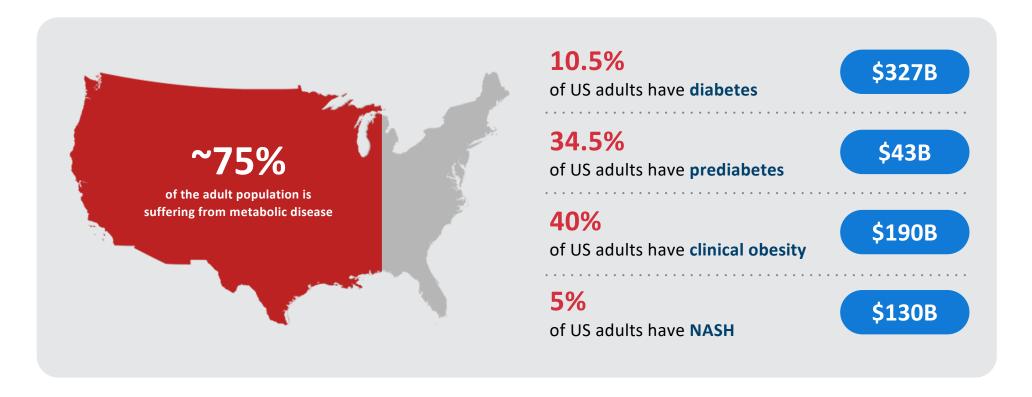
## **Agenda**

- Introductions
- Metabolic Disease
  - The Costs of Metabolic Disease
  - Traditional Care Approaches
  - The Importance of Food & Metabolic Disease
- Metabolic Disease: Prevention & Remission
  - How the Microbiome Has Enabled Precision Nutrition
  - Food Prescriptions for Prediabetes & Diabetes Prevention
- Case Study: Diabetes Remission with Food As Medicine
- Q&A



#### Which Medical Condition Affects ~75% of US Adults?

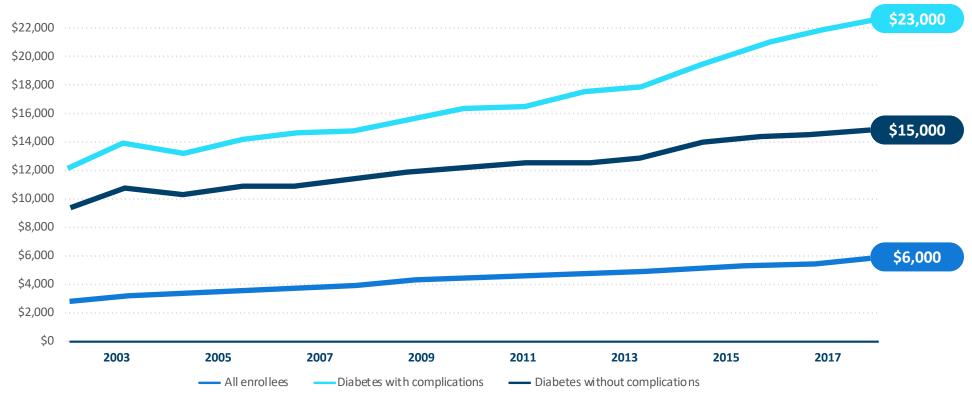
Metabolic disease is a **\$700 billion** a year problem





## **Employees With Diabetes Are 4x More Expensive**

Total average annual spending for people with health coverage from a large employer, by diagnosis

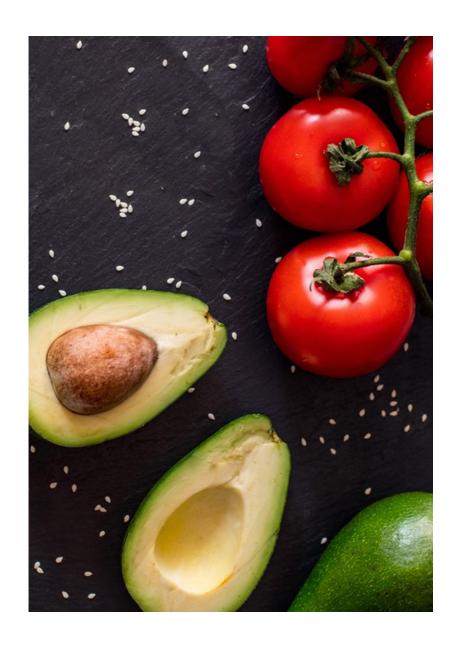


Source: KFF analysis of IBM MarketScan Commercial Claims and Encounters Database, 2003-2017

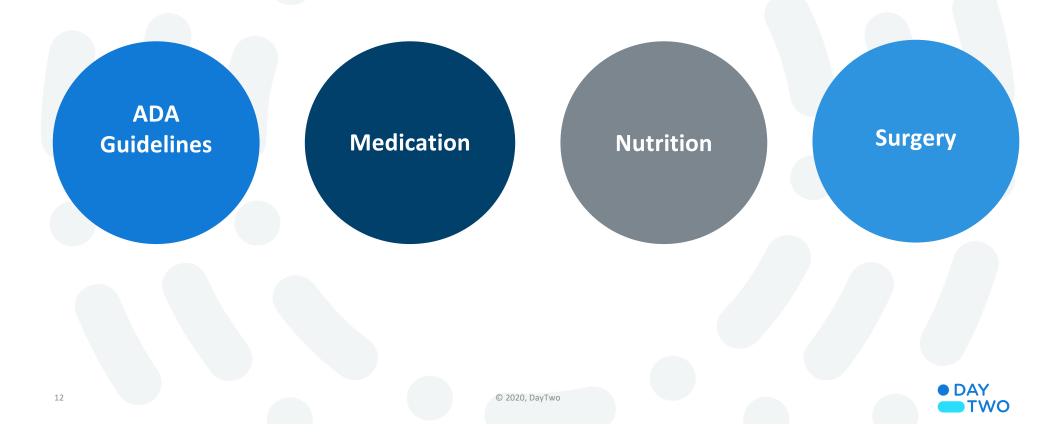


## **Agenda**

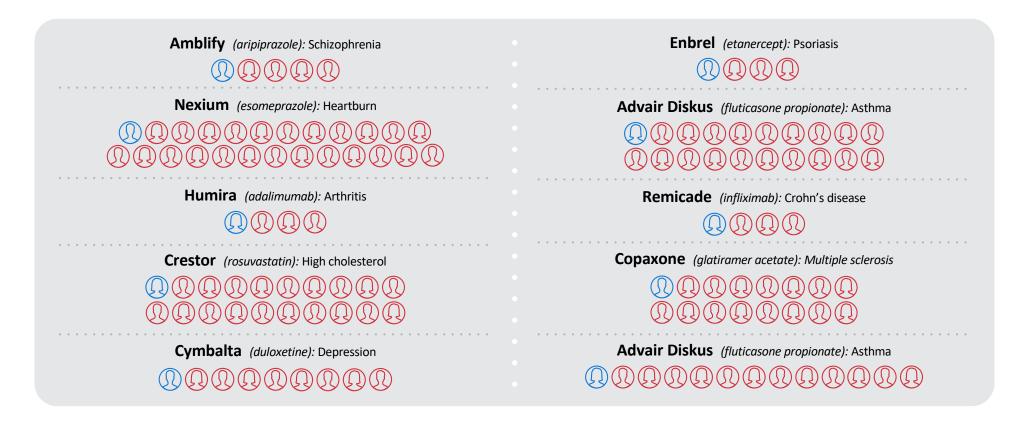
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## **Traditional Approaches To Metabolic Disease**

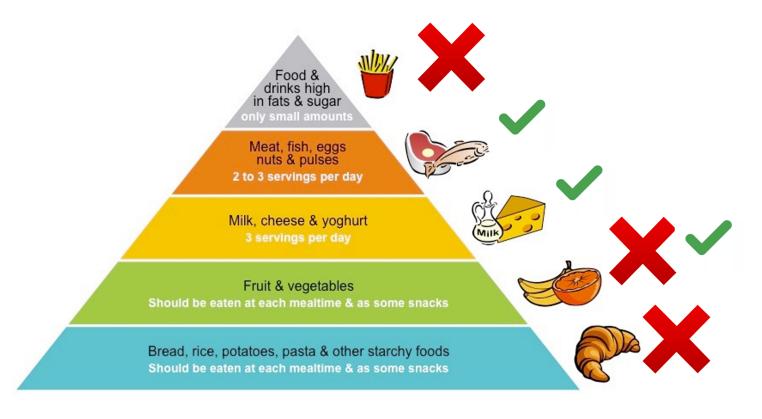


## **Prescription Drugs Are Not Based on Precision**





### Population Diabetes Programs say "No" to Food Categories



Source: data adapted from USDA



## **Food Choices Have Biggest Impact on Life with Diabetes**

TABLE 1. Ranking of Factors That Have a "Big Impact" on Daily Life With Diabetes by Respondents' Diabetes Type and Therapy			
Rank*	Diabetes/Therapy Type		
	T1	T2I	T2NI
1	Food choices (63%)	Food choices (67%)	Food choices (64%)
2	Time-in-range (57%)	Time-in-range (45%)	Time-in-range (41%)
		A1C (44%)	A1C (41%)
3	Unexpected blood glucose numbers (42%)	Nondiabetes health issues (36%)	Nondiabetes health issues (31%)
		Dosing insulin (34%)	
4	Dosing insulin (37%)	Unexpected blood glucose numbers (28%)	Unexpected blood glucose numbers (20%)
5	Hypoglycemia (30%)	Symptoms of complications (24%)	Symptoms of complications (15%)
	A1C (30%)		
	Nondiabetes health issues (27%)		

Source: Clinical Diabetes (ADA)

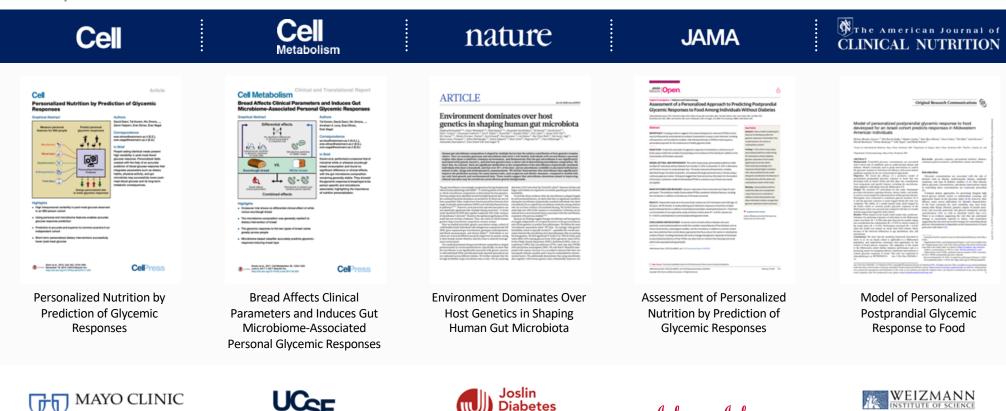


Precision nutrition is here:
high resolution microbiome profiling
enables a path to diabetes prevention
& remission



## The Science: Microbiome Impact on Precision Nutrition

10 years of science



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Johnson Johnson

DAY

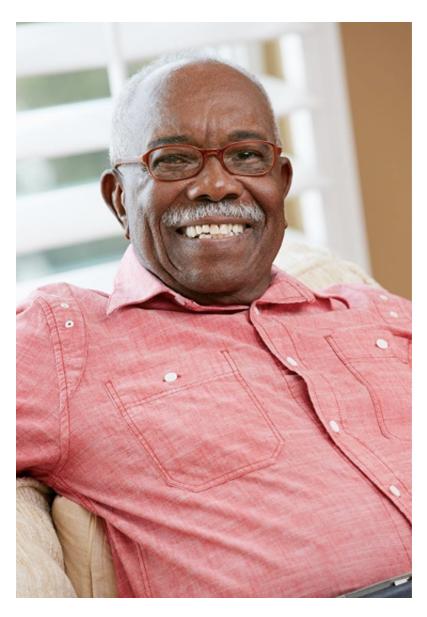
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## **People Respond Differently to the Same Food**



Source: JAMA





#### **How Food Prescriptions Work**

Food is family and food is heritage. Food defines who we are and requires an understanding of cultural competence.

#### Precision-based, cultural eating experience

 Specific for the person who receives a food prescription and meets them where they are, from a family and cultural perspective

#### Microbiome Initiated Food Prescription

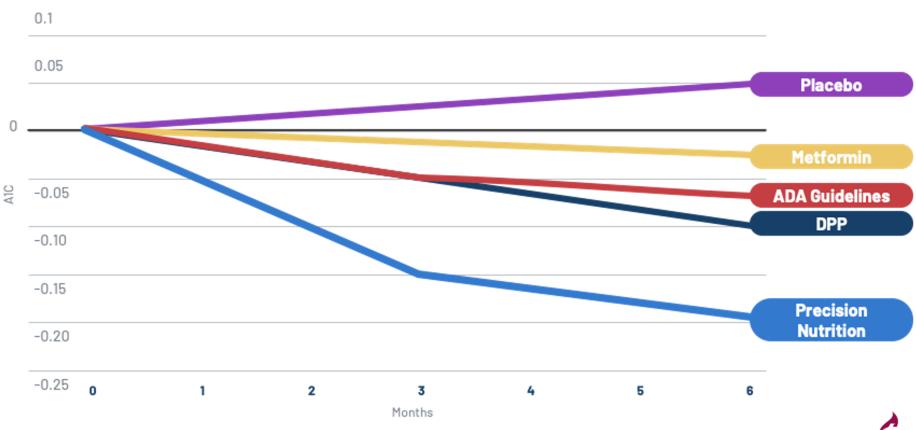
 A prescribed diet should be based on personal parameters, including a microbiome test, not general advice.

#### Support with a CDCES or RDN throughout

 The prescribed diet requires proper counseling by the appropriate professional to implement and ensure engagement and stickiness

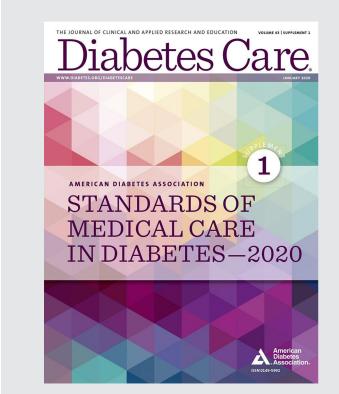


## Prediabetes: Food As Medicine Most Effective at Lowering A1C





## **ADA Cites Microbiome Profiling In 2020 Standards of Care**





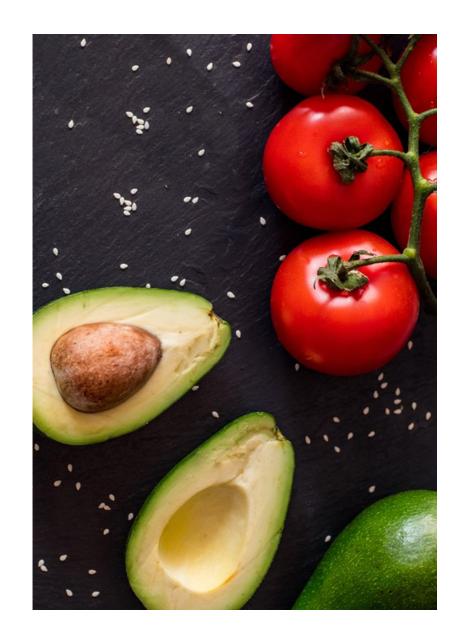
"...research has shown, for example, the wide interpersonal variability in blood glucose response to standardized meals that could be predicted by clinical and microbiome profiles."





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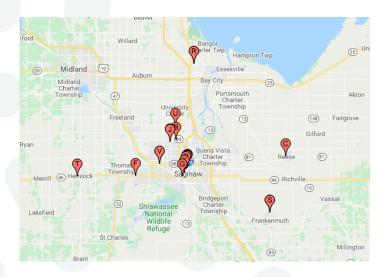
## **Employer Case Study**

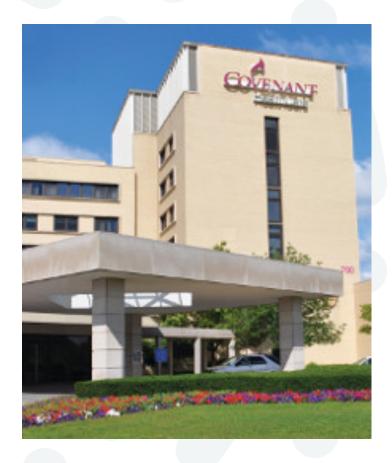
# Covenant HealthCare Food As Medicine enables a path to diabetes remission



## **Covenant HealthCare**

- 7 critical hospitals across Michigan
- 4,400 employees and 380 volunteers
- 20 counties across northeast and central Michigan
- 90,000 visits a year in our trauma/emergency care center







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## **Covenant HealthCare Employee Diabetes Statistics**

## **Population**

Employees: **4,800**Covered Lives: **7,500**Type 2s: **463** 

#### **Costs**

Total: **\$45 million**Type 2: **\$5.5 million** 

#### Continuity

2017: **29%** 2018: **33%** 2019: **31%** 



### **Covenant HealthCare Clinical Outcomes**





## **Covenant HealthCare Patient Reported Outcomes**







#### Josh.Stevens@DayTwo.com

DayTwo is a **precision nutrition, telehealth** solution that enables a path to **remission for metabolic disease** (diabetes, prediabetes, obesity and NASH)

DayTwo uses **gut microbiome profiling**, **predictive algorithms**, and **telehealth-based clinical support** to deliver success for 62,000+ **patient members**.

DayTwo is a fee-for-outcome provider and offers up to 100% fees at risk













## Respondent Remarks



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is a tri-sector healthcare executive with
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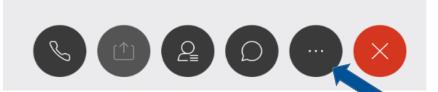
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## TO ASK A QUESTION OF A PRESENTER OR RESPONDENT





On your screen, click here to see **Q&A** function.

#### The **Q&A function** is found by clicking on the ellipsis icon.

- Type in your question and send to "All Panelists."
- There is a 256-character limit for questions.
- If we are unable to address your question during the online presentation, we will try to have the remaining questions answered following the session and posted with the follow up material.