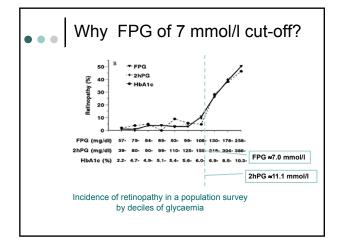
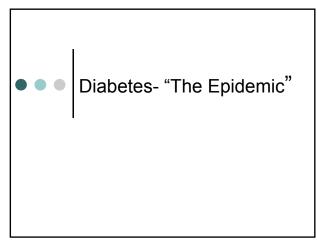
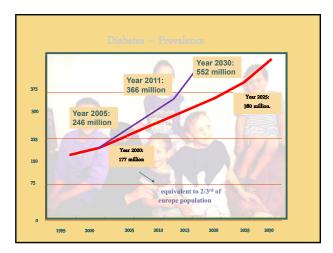
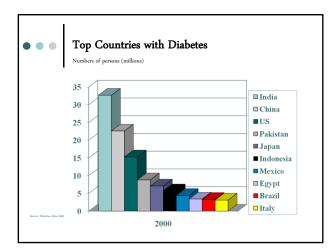


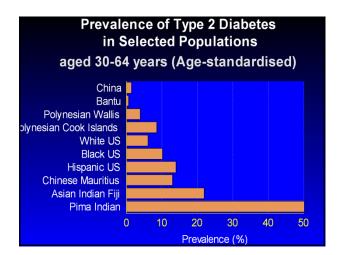
1	Glucose	HbA1c
Patient preparation prior to collection of blood	Stringent requirements if measured for diagnostic purposes.	None.
Measurement	Widely available	Not readily available world- wide
Standardization	Standardized to reference method procedures.	Standardized to reference method procedures.
Routine calibration	Adequate.	Adequate.
Interferences: illness	Severe illness may increase glucose concentration.	Severe illness may shorter red-cell life and artifactually reduce HbA1c values.
Haemoglobinopathies	Little problem unless the patient is ill.	May interfere with measurement in some assays.
Haemoglobinopathy traits	No problems.	Most assays are not affected.
Affordability	Affordable in most low and middle income country settings.	Unaffordable in most low and middle-income country settings.

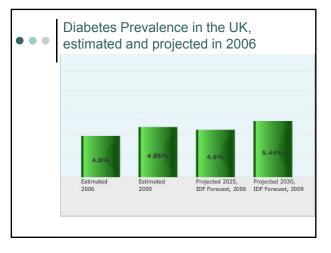


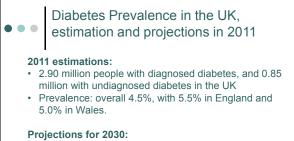








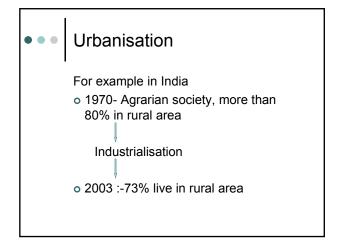




Total number of patients with diabetes will be around 5 million.

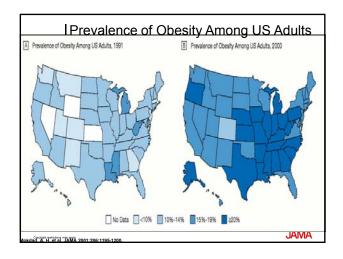
• • • Diabetes Epidemic: Reasons

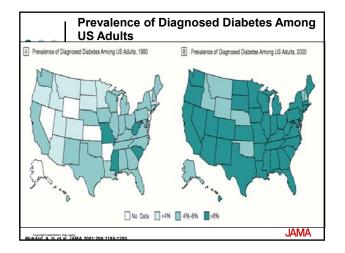
- Increasing lifespan
- Urbanisation: change in lifestyle
- o Obesity epidemic

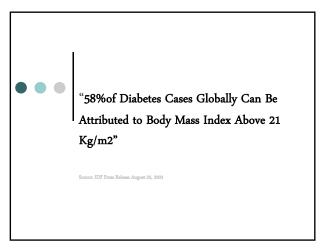


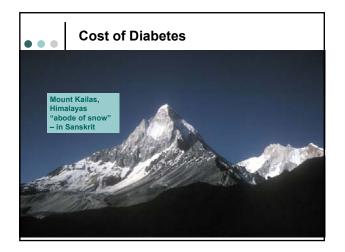
• • • Diabetes	prevalence in	Southern India
		2.4 % 5.9 % 11.6 %
Ramachandran et al, D	Diab Res Clin Prac 1997;44	: : 207-213

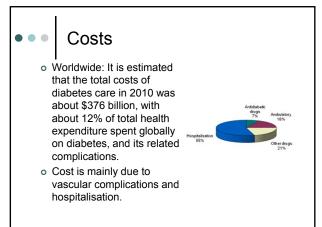


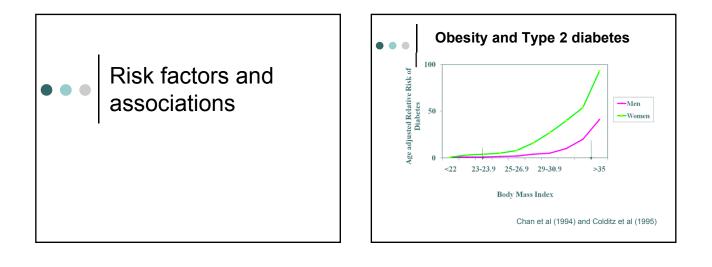


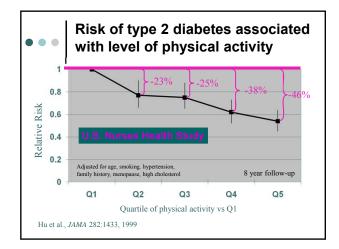


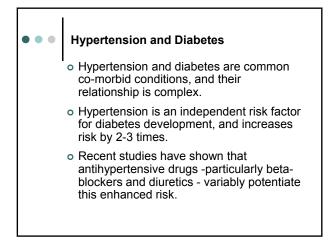


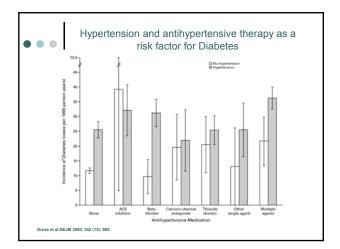


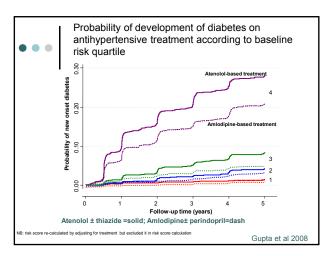


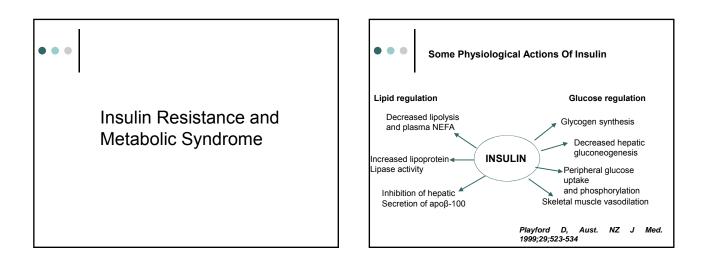


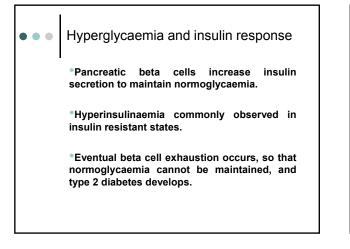


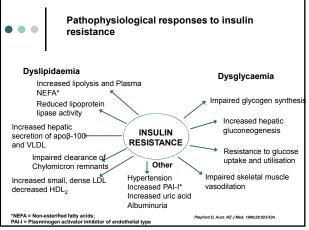


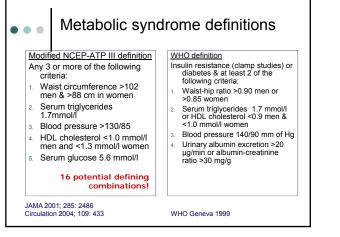


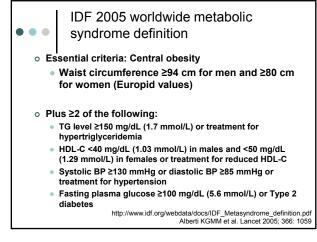






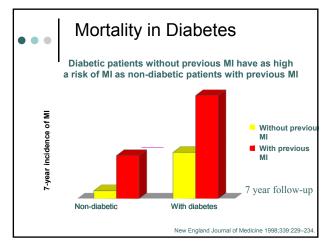


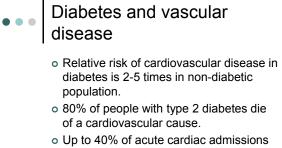




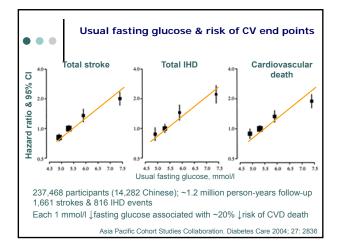


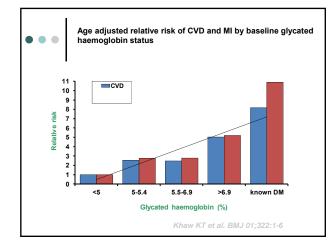


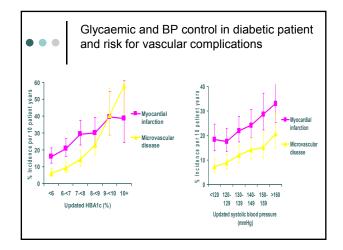


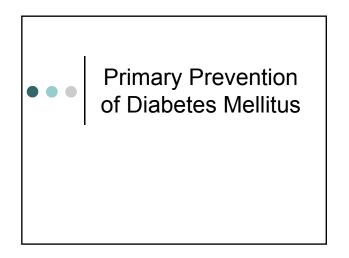


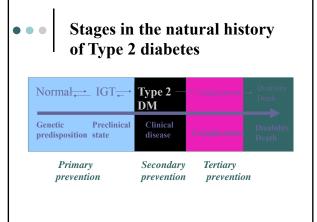
- may have diabetes.
- Most common cause of non-traumatic lower limb amputations.











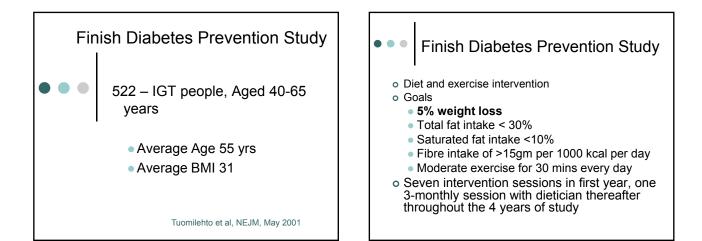
Secondary prevention: Is it good enough?

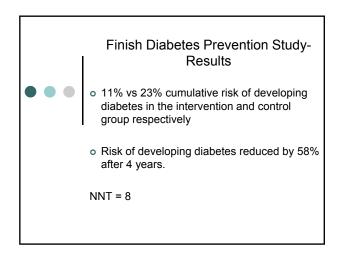
Points to Ponder

- Only partially successful in preventing complications.
- Costly in itself. Needs considerable resources.
- Rising prevalence of diabetes will eventually offset the gains made in cardiovascular disease prevention.
- 25-50% of patients may have some evidence of complications at the time of diagnosis of diabetes.

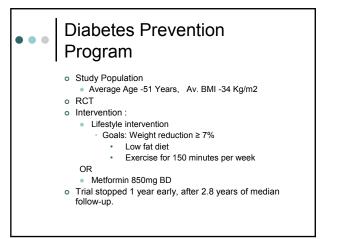
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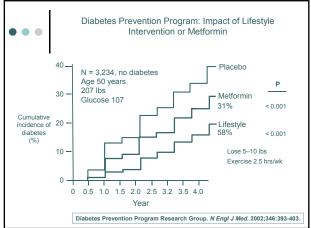
Primary prevention of diabetes: The evidence so far











•	Studies using oral hypoglycaemic agents for primary prevention of diabetes							
	Study		Туре	Number of subjects	Intervention	Effect on Diabetes incidence/progress ion		
	DPP		RCT	2155	Metformin	Reduction in incidence		
	FHS		RCT	188	Gliclazide	No benefit		
	TRIP	OD	RCT	266 (Hispanic women)	Troglitazone	Decrease incidence from 45% to 20%		
	STOF NIDD		RCT	1429	Acarbose	25% decrease in progression to Diabetes		

Other trials with diabetes prevention as a secondary/tertiary objective Number Effect on Diabetes incidence/progression Intervention Study Туре of subjects Decreased incidence (9% RCT 3305 XENDOS Orlistat to 6%) Ramipril vs Placebo HOPE RCT 5720 34 % risk reduction Losartan vs Atenolol 25% risk reduction with LIFE RCT 9000 significantly lower incidence

Pravastatin

Amlodipine ± Perindopril

34% risk reduction with

CCB±ACE inhibitor

WOSCOPS

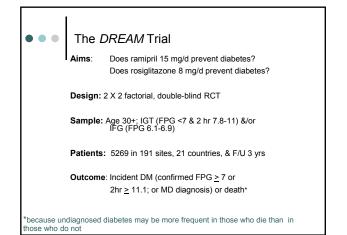
ASCOT-BPLA

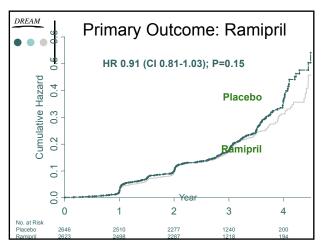
RCT -

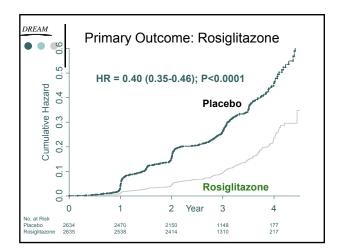
RCT

6447

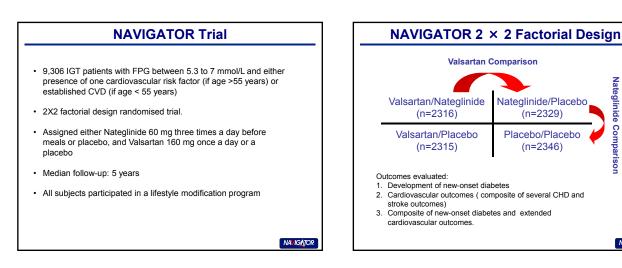
14120

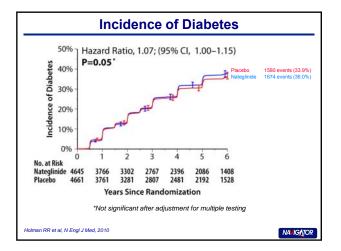


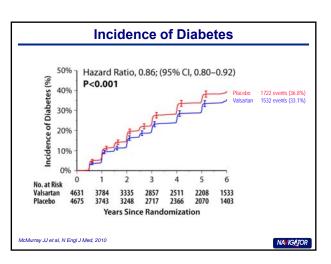












Nateglinide Comparisor

NAVIGATOR

• • • Lifestyle or Medication?

Summary of current literature

- Life style modifications appear to be more efficacious.
- All drugs cause some degree of adverse effects.
- Life style modifications have beneficial effect on other disease e.g. CVD morbidity/mortality.
- Prescribing early- long duration of drug therapy, drugs have not been shown to have everlasting effect.

• • • Summary of session

- Diabetes is a common but serious disease, incidence and prevalence of whom is rapidly increasing in conjunction with obesity
- Insulin resistance, is a fundamental unifying basis of Diabetes, Obesity and Metabolic syndrome.
- Diabetes, impaired glucose regulation and metabolic syndrome are associated with considerably higher risk of cardiovascular morbidity and mortality
- Diabetes is a preventable disease