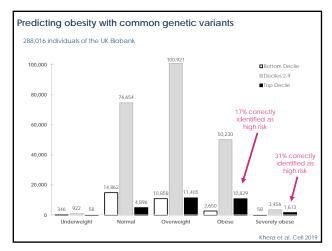
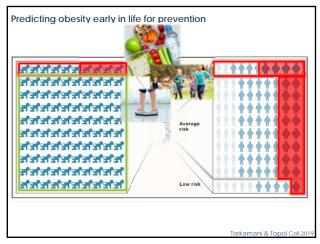
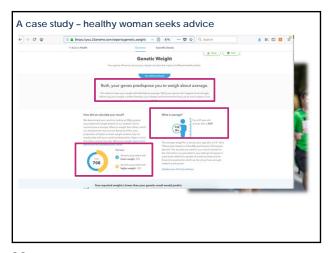


Year	SNPs	Explained variance in BMI	ROC _{AUC}	1.00 -	ROC Curves for	Comparisons
2007 Frayling et al.	FTO	0.34 %	0.546	0.75		
2008 Loos et al.	FTO+MC4R	0.55 %	0.55	wity		AUC _{2MNPs} = 0.6
2009 Willer et al.	12 SNPs	0.90 %	0.574	Sensitivity 0.50 -		$UC_{975NPs} = 0.60$
2010 Speliotes et al.	32 SNPs	1.5%	0.574	0.25		_{32SNPs} = 0.574
2015 Locke et al.	97 SNPs	2.7 %	0.601*	0.00		
2019 Khera et al.	2.1M SNPs	8.5 %	0.636	0.00	0.25 0.5 1 - Spec	

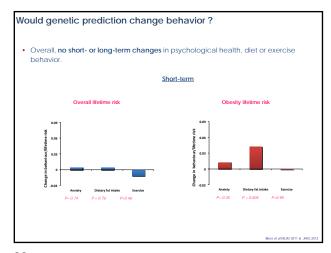


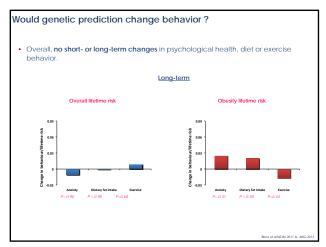




Does knowing your genetic risk affect your behavior?

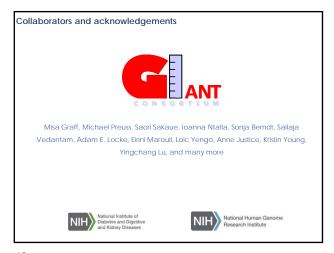
ould genetic predic	tion change behavior?
The NEW ENGLAN	D JOURNAL of MEDICINE
ORIGI	NAL ARTICLE
	Consumer Genomewide ssess Disease Risk
Cinnamon S. Bloss, Ph.D., Nichol	ORIGINAL ARTICLE
111017110790	Impact of direct-to-consumer genomic testing at long term follow-up
	Cinnamon S Bloss, ¹ Nathan E Wineinger, ¹ Burcu F Darst, ¹ Nicholas J Schork, ^{1,2} Eric J Topol ^{1,2,3}
	Sinos CS, et al. / Mord Genet 2013, 0 1–8, ook 10, 1136/yeedgenet 2012-101207
Genome-wide profiling w diseases/traits	ith Navigenics Health Compass to estimate lifetime risk of 23
3,639 individuals from hea	lith and technology companies enrolled in study; 2,037 (56%)
completed follow-up at 3	months and 1,325 (36%) completed follow-up at 1 year
Anxiety symptoms, dietary	y fat intake, exercise behaviour





Conclusions

- The current contribution of genetic information to precision medicine in obesity is limited → obesity, weight gain, weight loss are complex, multifactorial and polygenic traits that cannot be captured by a single genetic score.
- Full(er) picture is needed. Other, non-genetic factors, might be more informative to personalize treatment and improve prediction.
- To tailor treatments to people's genetic and non-genetic "profile", we need more research into the "predictors" of response to a variety of treatments.
- Lifestyle and behavior are hard to change even if people receive "sophisticated" information, it may still not be possible to adopt new recommendations.





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