This house believes that ALL cardiologists should be ordering ALL genetic tests-Con Dr Sarju Mehta Consultant in Clinical Genetics

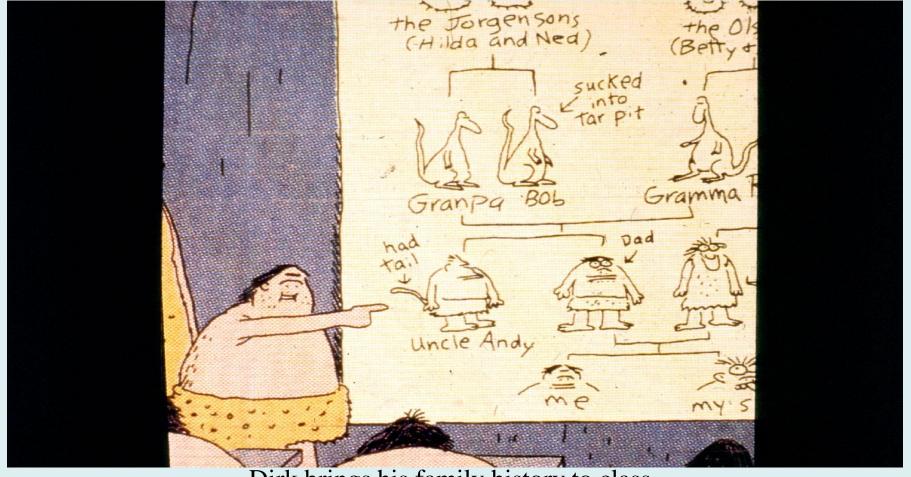
Disclaimers

I get paid to order genetic tests

Overview

- Why is genetic testing different
- Genetic advances
- Education and training
- Infrastructure requirements

Why is Genetic testing different?



Dirk brings his family history to class

Sharing of information



Informed Consent



Cytogenetic Advances









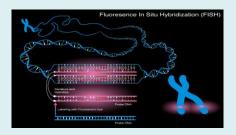
FISH

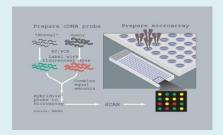




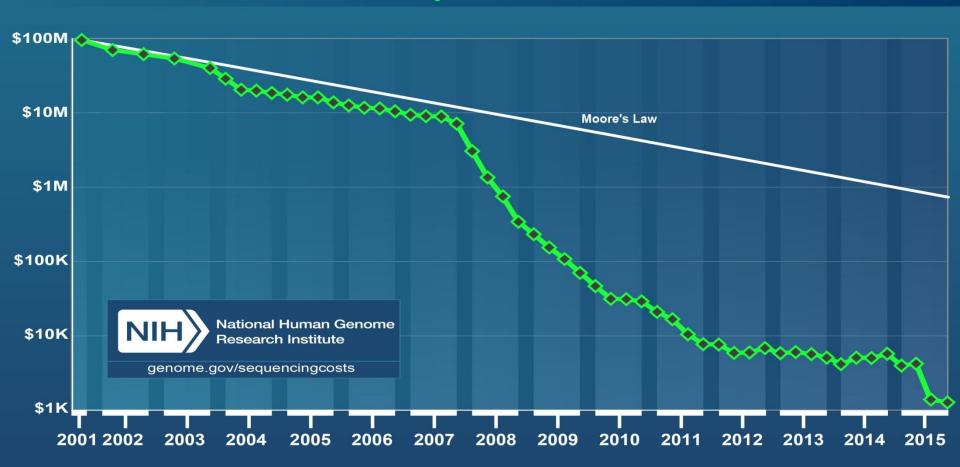
MICROARRAY







Cost per Genome



Molecular genetic advances

SINGLE GENE TESTING



GENE PANEL



EXOME







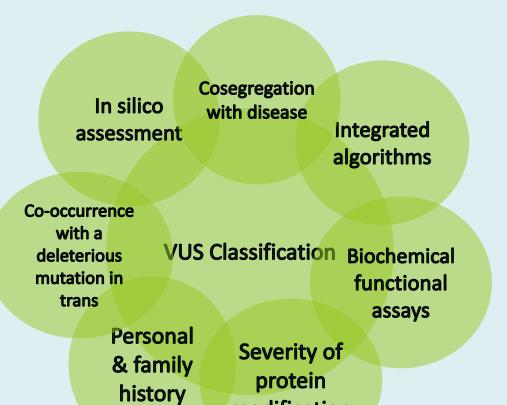
NUMBER NUMBER OF THE CONTROL OF THE

Genetics in Medicine

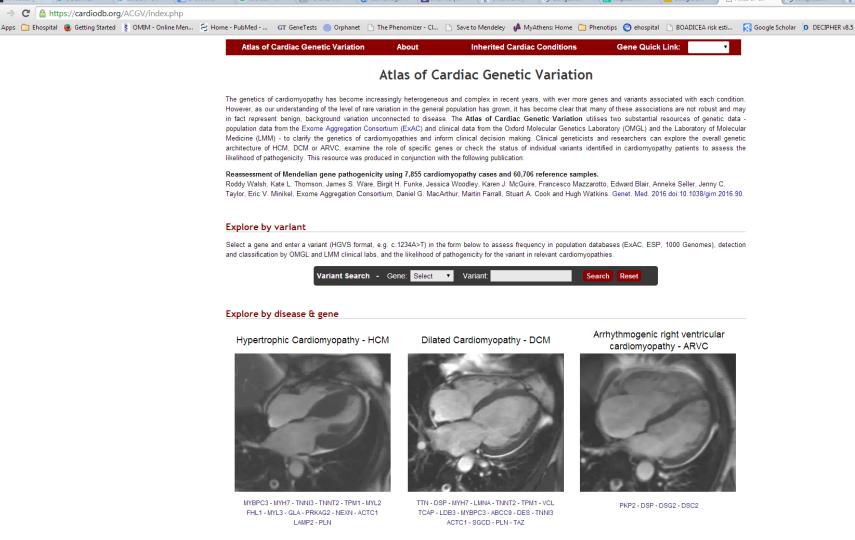
Open

Reassessment of Mendelian gene pathogenicity using 7,855 cardiomyopathy cases and 60,706 reference samples

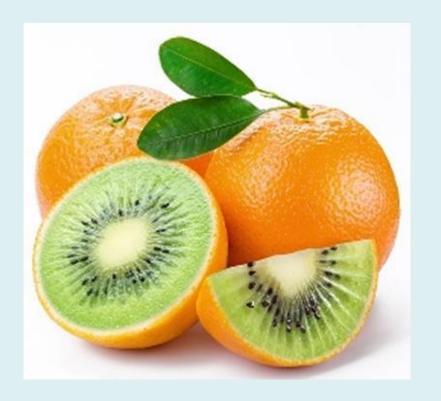
Roddy Walsh, BSc, MSc^{1,2}, Kate L. Thomson, BSc, FRCPath^{3,4}, James S. Ware, PhD, MRCP^{1,2,5}, Birgit H. Funke, PhD, FACMG^{6,7}, Jessica Woodley, BSc³, Karen J. McGuire, BSc³, Francesco Mazzarotto, BSc, MSc^{1,2}, Edward Blair, BMSc, MRCP⁸, Anneke Seller, PhD³, Jenny C. Taylor, PhD^{9,10}, Eric V. Minikel, MS^{11–14}, Exome Aggregation Consortium¹⁴, Daniel G. MacArthur, PhD^{11,12,14,15}, Martin Farrall, FRCPath^{4,10}, Stuart A. Cook, PhD, MRCPath^{2,5,16,17} and Hugh Watkins, MD, PhD^{4,10}



modification

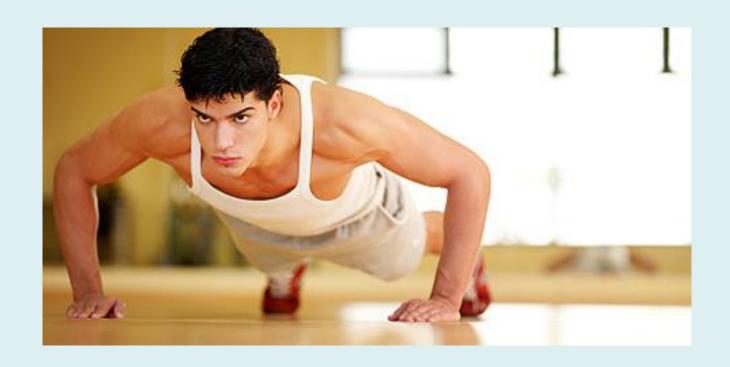


» 📋 Other boo

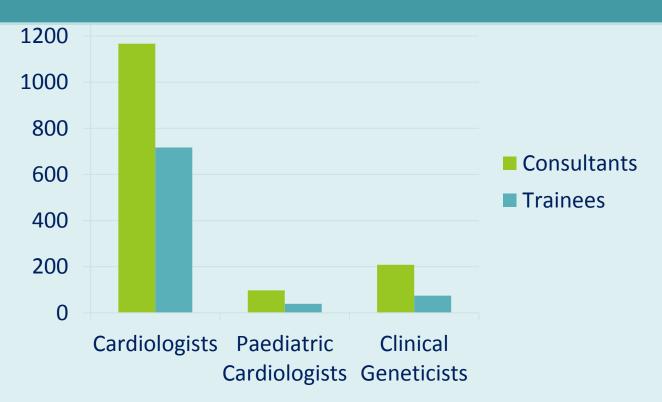


Predictive Genetic Testing





RCP census 2014-15



Education and Training



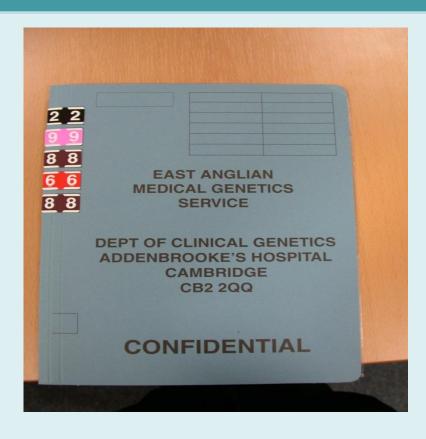
European Heart Journal (2013) **34**, 2381–2411 doi:10.1093/eurheartj/eht234

CURRENT OPINION

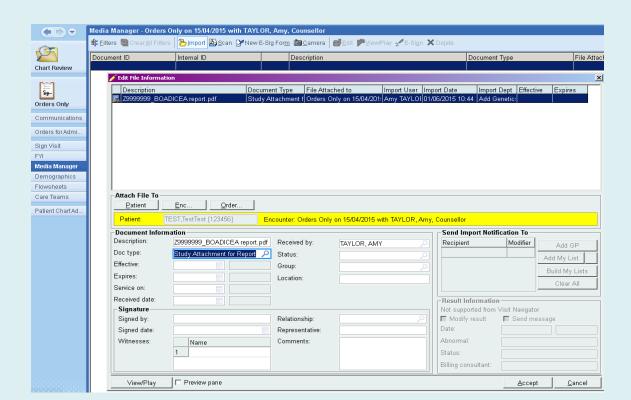
ESC Core Curriculum for the General Cardiologist (2013)

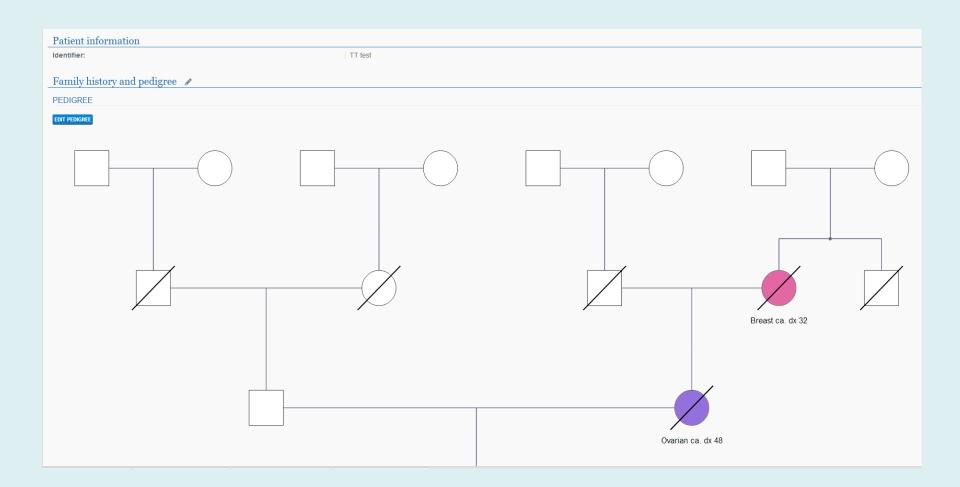
European Society of Cardiology

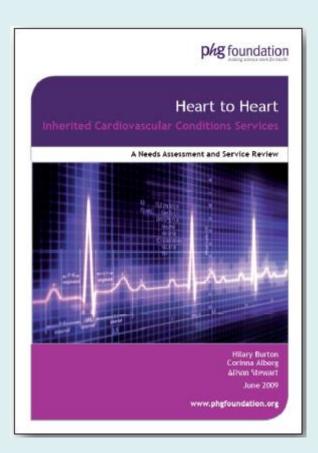
Hospital Infrastructure



Hospital Infrastructure







Every UK cardiac network should ensure that its population has access to specialised expert ICC services for children and adults, although most will not have their own service.

This house believes that ALL cardiologists should be ordering ALL genetic tests

This house believes that SOME cardiologists should be ordering SOME genetic tests

Questions?