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Fitness for Purpose – Conceptual Classification						
	Regulatory	Full	Accel.	СТ		Fast
	Purpose	Approval	Approval	Inc/Exc	Safety	Track
Degree of Qualification						
FDA Definition	Fleming Definition					
	True efficacy measure (1)					
Known valid BM	Valid SEP					
	(2)					
Known valid BM	SEP (3)					
Prob. valid BM	Correlation (4)					
www.diahome.org						



Regulatory Policy Issues

- 2. Major promise of genomics is to allow dissection of treatment responses in subpops
 - Realistically, this can often only happen on a limited scale pre-approval
 - Numbers of each subpopulation that can be recruited are often too small, bearing in mind
 - Often low frequency of critical variants
 - Often modest differences between groups
 - Don't know a priori which differences are significant
 - Complex interactions affecting expression
 - Cf industry commentary on drug/diagnostic co-development paper

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C DIG **Can We Square the Circle?** Two review models - Full approval - "approval as an event" - Conditional approval - "approval as a process" Full review model is often inimical to satisfactory investigation of patient benefit or exploitation of (genomic) biomarkers Need more process flexibility for data generation and review to improve detailed basis for, and conclusiveness of, decisions Incentives for "evidence development" (cf CMS) Efficient use of biomarkers will depend upon objective quantification and balancing of risks by both sponsors and regulators www.diahome.ord

























