

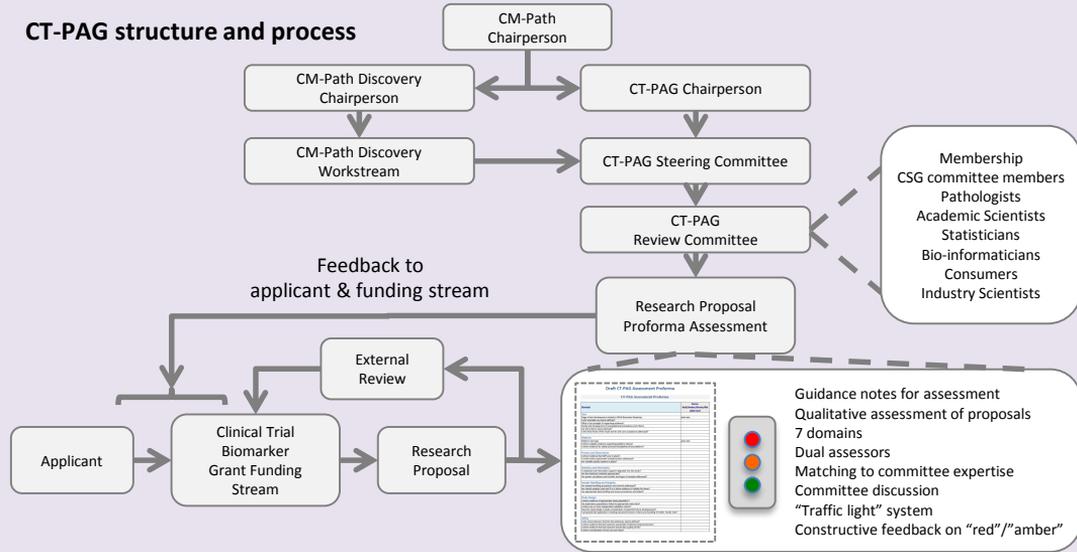
Reuben Tooze, Susan Richman, Guy Betts, Maggie Cheang, the CT-PAG advisory group members, Jessica Lee, Karin Oien, Gareth Thomas, Craig Robson

<https://cmpath.ncri.org.uk/>

Background

A strong pipeline linking biomarker discovery and validation to targeted therapeutic development is essential to deliver rational evidence-based therapeutic decisions in the emerging era of targeted therapy. The recently formed Clinical Trial Pathology Advisory Group (CT-PAG) sits within the NCRI initiative in cellular molecular pathology, CM-Path. Aligned with the biomarker roadmap, CT-PAG aims to provide guidance and technical critique of pathology and biomarker components in clinical trials. To this end, CT-PAG has developed a proforma to help standardization of assessment and provide guidance for enhancing biomarker-led research supported via NCRI. This proforma aims to provide the basis for a succinct assessment and checklist for technical issues relating to biomarker research across the "biomarker roadmap". The proforma has been developed drawing on related efforts from NCI, the National Academies (USA), CRUK and other sources.

CT-PAG structure and process



CT-PAG Proforma

Domain 1: Test
Stage of test development
Clarity of defined usage
Strength of supporting evidence
Definition of metrics/procedures
Time-frames & end-user usage

Domain 2: Platform
Type of test/platform
Evidence supporting platform
Evidence for stable provision/availability of platform

Domain 3: Process and Governance
SOPs
Multi-centre assessment
Suitability of quality systems

Draft CT-PAG Assessment Proforma

Domains	Score
Red/Amber/Green/Not assessed	0-100
1: Test	
Has the test been developed and used in UK Biomarker Roadmap?	
What is the stage of development?	
What is the strength of supporting evidence?	
What is the evidence of supporting evidence of practice and uptake?	
Has the test been used in a clinical trial?	
Has the test been used in a clinical trial and in an end-user application?	
2: Platform	
What is the test type?	
What is the test platform?	
What is the evidence of supporting evidence?	
What is the evidence of supporting evidence of practice and uptake?	
3: Process and Governance	
What is the evidence of supporting evidence?	
What is the evidence of supporting evidence of practice and uptake?	
4: Statistics and Informatics	
What is the evidence of supporting evidence?	
What is the evidence of supporting evidence of practice and uptake?	
5: Sample handling and integrity	
What is the evidence of supporting evidence?	
What is the evidence of supporting evidence of practice and uptake?	
6: Study design	
What is the evidence of supporting evidence?	
What is the evidence of supporting evidence of practice and uptake?	
7: Utility	
What is the evidence of supporting evidence?	
What is the evidence of supporting evidence of practice and uptake?	

Domain 5: Sample handling and integrity
Sample handling procedures & controls
Storage & utility
Data & access procedures

Domain 6: Study design
Study population
Exploratory populations meta-data
Validation cohorts
Future proofing
Inclusion/exclusion/outliers

Domain 7: Utility
Definition of clinical decision
Impact on treatment choice
Impact on quality of life
Test cost and value

Conclusions

CT-PAG aims to support the continued enhancement of excellence in biomarker-led clinical investigation in the UK. Through dialogue with stakeholders we aim to facilitate and support best practice in biomarker-led pathology research, hence improving the delivery of cellular and molecular pathology in research and ultimately in clinical application. We have developed and applied our version-1 CT-PAG proforma as a starting point in a process which we hope to see develop in an iterative cycle.