# Other users of CPIC guidelines and Media mentions

# Table 1. Organizations using CPIC guidelines as of July 2022

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| Organization | usage |
| American Association for Clinical Chemistry | education |
| AMP-Association of Molecular Pathologists | Defining a Minimum Set of Variants that should be included in Genotyping assays |
| ASCPT-American Society for Clinical Pharmacology and Therapeutics | ASCPT endorses CPIC guidelines |
| ASHP-American Society of Health-System Pharmacists | included in Pgen toolkit; included as endorsed documents |
| CAP College of American Pathologists | "CAP applauds and supports the objectives, processes and work completed…by CPIC"; creates standards with AMP based on CPIC variants |
| Cerner | nomenclature |
| ClinGen | ClinGen relies on CPIC and PharmGKB as sources for expertly curated pharmacogenetic knowledge and links to CPIC guidelines. |
| Clinical Decision Support Knowledgebase (CDS\_KB) | teaching or research tool |
| ClinVar | teaching or research tool |
| Elsevier; Clinical Key and Clinical Skills | both reference CPIC |
| EPIC | EPIC galaxy |
| G2C2 Genetics/Genomics Competency Center for Education | teaching or research tool |
| G2MC | teaching or research tool |
| GTR--Genetic Test Registry | CPIC provides summaries for pharmacogenes |
| Illumina | <https://www.illumina.com/search.html?q=CPIC&filter=all&p=1> |
| Lexicomp (Walters Kluwer) | used to classify drugs that have actionable Pgx |
| McGraw-Hill | access products medicine, nursing, pharmacy |
| Medical Observer | teaching or research tool |
| Medscape | teaching or research tool |
| Micromedex | used as citations for use of individual drugs |
| My Drug Genome | teaching or research tool |
| NCCN | in TPMT guidelines |
| Pediatric Pharmacy Advocacy Group | teaching or research tool |
| PGRN | teaching or research tool |
| PharmCAT | CPIC guidelines used to inform PharmCAT |
| PharmGKB | CPIC started as a shared project between PharmGKB and the PGRN; PharmGKB hosts some CPIC content both groups coordinate with each other closely |
| PharmVar | PharmVar coordinates variant annotation with CPIC |
| Regenstrief | teaching or research tool |
| Thermofisher | e.g. PharmacoScan array Core functional pharmacogenomic content including markers from Clinical Pharmacogenomics Implementation Consortium (CPIC) guidelines |
|  |  |
| U.S. Pharmacist | teaching CE modules |
| University Of Minnesota Alliance Institute of Personalized Medicine | teaching or research tool |
| UpToDate (Walters Kluwer) | included in Overview of pharmacogenomics; used as citations for use of individual drugs |
| Wikipedia | teaching or research tool |

## Table 2. Media citations of CPIC 2017-2022

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|  |  |  |  |  |
| **Article** | **URL** | **Media Outlet** | **Date** | **Snippet** |
| Focus on Clinical Guidelines and Consensus Statements | https://www.accp.com/report/index.aspx?iss=0317&art=5 | ACCP | 2017 | Several other ACCP members continue to serve as members of the interprofessional Clinical Pharmacogenetics Implementation Consortium (CPIC). |
| Is Preemptive Pharmacogenetic Testing Coming to a Health System Near You? | https://www.aacc.org/science-and-research/scientific-shorts/2019/is-preemptive-pharmacogenetic-testing-coming-to-a-health-system-near-you | AACC | 2019 | Evidence-based clinical guidelines have been published for over 30 of those pairs by the Clinical Pharmacogenetics Implementation Consortium (CPIC) |
| AMP Recommends Best Practices for Clinical Pharmacogenomic Testing | https://clpmag.com/resource-center/research/amp-recommends-best-practices-for-clinical-pharmacogenomic-testing/ | CLP magazine | 2019 | The recommendations are based on guidelines developed by the Clinical Pharmacogenetics Implementation Consortium (CPIC), |
| The Building Blocks of a Pharmacogenomic Program | https://www.aacc.org/cln/articles/2021/april/the-building-blocks-of-a-pharmacogenomic-program | AACC | 2020 | Clinical guidelines, such as those from the Clinical Pharmacogenetics Implementation Consortium (CPIC) and PharmGKB, can help clinicians sort out the utility of pharmacogenomic testing for their patients |
| Put It on the Board - CAP TODAY | <https://www.captodayonline.com/put-it-on-the-board-0720/> | CAP Today | 2020 | Developed by the AMP PGx Working Group with organizational representation from the CAP and the Clinical Pharmacogenetics Implementation Consortium, the latest report (https://doi.org/10.1016/j.jmoldx.2020.04.204) builds on the earlier recommendations for clinical CYP2­­C19 and CYP2C9 genotyping. |
| Clinical Study Shows Benefits of Using Pharmacogenetics among Statin Users | <https://www.genengnews.com/news/clinical-study-shows-benefits-of-using-pharmacogenetics-among-statin-users/> | Genetic Engineering & Biotechnology News | 2020 | The secondary outcomes were 1-year concordance with American College of Cardiology–American Heart Association and Clinical Pharmacogenetics Implementation Consortium (CPIC) guidelines for statin therapy and statin-associated muscle symptoms (SAMS). |
| How Should Health Systems Approach Their Enterprise Precision Medicine Efforts? | <https://www.healthcareittoday.com/2020/09/02/how-should-health-systems-approach-their-enterprise-precision-medicine-efforts/> | Healthcare IT Today | 2020 | Empey suggests that organizations such as Clinical Pharmacogenetics Implementation Consortium (CPIC) are leading the efforts for some of these standards.  This reminds me of the lessons we’ve learned about discrete data and standardization in other areas of the EHR. |
| INVEST Precision Medicine Pitch Perfect winner spotlight: Parallel Profile | <https://medcitynews.com/2020/12/invest-precision-medicine-pitch-perfect-winner-spotlight-parallel-profile/> | MedCity News | 2020 | To determine whether people have a genetic risk factor for an adverse drug reaction, the startup uses public data from the Clinical Pharmacogenetics Implementation Consortium (CPIC). |
| Myriad Genetics Delivers 6% Sequential Revenue Growth; Company Continues to Execute Strategic Transformation Plan | BioSpace | <https://www.biospace.com/article/releases/myriad-genetics-delivers-6-percent-sequential-revenue-growth-company-continues-to-execute-strategic-transformation-plan/> | BioSpace | 2021 | The first was a new publication in Psychiatry Research demonstrated that the GeneSight combinatorial test was superior to single gene testing using the Clinical Pharmacogenetics Implementation Consortium (CPIC) guidelines. |
| PGx in transplant medicine: tacrolimus as foundation | <https://www.captodayonline.com/pgx-in-transplant-medicine-tacrolimus-as-foundation/> | CAP Today | 2021 | PharmGKB also publishes pharmacogenetic-based drug dosing guidelines authored by professional organizations such as the Clinical Pharmacogenetics Implementation Consortium. On the site now are clinical practice guidelines for three immunosuppressants: tacrolimus, methotrexate, and azathioprine. |
| AMP Provides Recommendations for Clinical CYP2D6 Genotyping Allele Selection | <https://clpmag.com/lab-essentials/quality-systems/standards/amp-provides-recommendations-for-clinical-cyp2d6-genotyping-allele-selection/> | Clinical Lab Products | 2021 | The recommendations should be implemented together with other relevant clinical guidelines such as those issued by the Clinical Pharmacogenetics Implementation Consortium (CPIC), Dutch Pharmacogenetics Working Group (DPWG), Canadian Pharmacogenomics Network for Drug Safety (CPNDS), and the American College |
| Pharmacogenetic testing: Clinical integration and... : The Nurse Practitioner | <https://journals.lww.com/tnpj/fulltext/2021/04000/pharmacogenetic_testing__clinical_integration_and.2.aspx> | Emergency Medicine News | 2021 | Standardizing CYP2D6 genotype to phenotype translation: consensus recommendations from the Clinical Pharmacogenetics Implementation Consortium and Dutch Pharmacogenetics Working Group. Clin Transl Sci. 2020;13(1):116–124.          21. Fredrikson KF. |
| Pharmacogenetic testing could save millions | <https://frontlinegenomics.com/pharmacogenetic-testing-could-save-millions/> | Front Line Genomics | 2021 | To do this, the team calculated quantitative estimates of the volumes of medicine dispensed annually with a Clinical Pharmacogenetics Implementation Consortium (CPIC) and/or Dutch Pharmacogenetic Working Group (DPWG) recommendation and affected by aberrant phenotypes. |
| Genomic Visions: Where Are We Now? | <https://www.genengnews.com/insights/genomic-visions-where-are-we-now/> | Genetic Engineering & Biotechnology News | 2021 | Groups like the Clinical Pharmacogenetics Implementation Consortium have tried to address this need by providing freely available, evidence-based guidelines on how to use genetic tests to guide prescribing. |
| Standardizing genotyping assays | <https://www.mlo-online.com/molecular/genomics/article/21230909/standardizing-genotyping-assays> | Medical Laboratory Observer | 2021 | To do so, it is working with other professional organizations, including the College of American Pathologists and the Clinical Pharmacogenetics Implementation Consortium.   Pharmacogenomics is the study of the effect of genomic variations on drugs. |
| AMP issues recommendations on clinical CYP2D6 genotype testing | <https://www.mlo-online.com/molecular/genomics/article/21226374/amp-issues-recommendations-on-clinical-cyp2d6-genotype-testing> | Medical Laboratory Observer | 2021 | The recommendations should be implemented together with other relevant clinical guidelines such as those issued by the Clinical Pharmacogenetics Implementation Consortium (CPIC), Dutch Pharmacogenetics Working Group (DPWG), Canadian Pharmacogenomics Network for Drug Safety (CPNDS), and the American College |
| Association recommends minimum set of pharmacogenetic alleles to guide clinical CYP2D6 genotype testing | <https://medicalxpress.com/news/2021-06-association-minimum-pharmacogenetic-alleles-clinical.html> | Medical Xpress | 2021 | The recommendations should be implemented together with other relevant clinical guidelines such as those issued by the Clinical Pharmacogenetics Implementation Consortium (CPIC), Dutch Pharmacogenetics Working Group (DPWG), Canadian Pharmacogenomics Network for Drug Safety (CPNDS), and the American College |
| AMP’s new consensus can promote standardization of PGx gene/allele testing, improve patient care | <https://www.news-medical.net/news/20210611/AMPe28099s-new-consensus-can-promote-standardization-of-PGx-geneallele-testing-improve-patient-care.aspx> | News Medical | 2021 | The recommendations should be implemented together with other relevant clinical guidelines such as those issued by the Clinical Pharmacogenetics Implementation Consortium (CPIC), Dutch Pharmacogenetics Working Group (DPWG), Canadian Pharmacogenomics Network for Drug Safety (CPNDS), and the American College |
| Opioid Therapy, CYP2D6 Metabolism, and Genetic Testing | <https://www.practicalpainmanagement.com/treatments/pharmacological/opioids/optimizing-opioid-therapy-pharmacogenetics> | Practical Pain Management | 2021 | The Clinical Pharmacogenetics Implementation Consortium (CPIC)\* recently published a clinical practice guideline on the use of pharmacogenetic information for opioid therapy for pain control. |
| Minimum Set of Alleles Recommended to Guide CYP2D6 Genotype Testing | <https://www.clinicallabmanager.com/news/minimum-set-of-alleles-recomended-to-guide-clinical-em-cyp2d6-em-genotype-testing-25723> | Today's Clinical Lab | 2021 | The recommendations should be implemented together with other relevant clinical guidelines such as those issued by the Clinical Pharmacogenetics Implementation Consortium (CPIC), Dutch Pharmacogenetics Working Group (DPWG), Canadian Pharmacogenomics Network for Drug Safety (CPNDS), and the American College |
| New Rapid genomic testing at Manchester University NHS Foundation Trust hospitals prevents at-risk neonates from potential lifelong hearing loss | BioSpace | <https://www.biospace.com/article/-new-rapid-genomic-testing-at-manchester-university-nhs-foundation-trust-hospitals-prevents-at-risk-neonates-from-potential-lifelong-hearing-loss-/> | BioSpace | 2022 | Approximately 1 in 500 babies have the m.1555A>G genetic variant.1          In non-acute clinical cases, guidance from the Clinical Pharmacogenetics Implementation Consortium (CPIC) and from the UK Medicines and Healthcare Regulatory Agency (MHRA) already recommends that genetic testing is carried |
| Tracking the Scientific Literature on the Impact of Pharmacogenomics on Clinical Practice and Public Health | https://blogs.cdc.gov/genomics/2022/04/04/tracking-the-scientific/ | CDC | 2022 | To date, CPIC has published 26 clinical practice guidelines addressing a multitude of gene-drug interactions. |
| Pharmacogenomics: What does it mean for your health? | https://www.cdc.gov/genomics/disease/pharma.htm | CDC | 2022 | CPIC as resource |
| The Case For Preemptive, Sequence-Based Pharmacogenomics Testing | <https://www.diagnosticsworldnews.com/news/2022/05/03/the-case-for-preemptive-sequence-based-pharmacogenomics-testing> | Diagnostics World | 2022 | The original list of the 77 targets came from evidence-based guidelines of the Clinical Pharmacogenetics Implementation Consortium, which examines data in support of the clinical utility of pharmacogenomic markers, where the organization has achieved consensus with its European counterpart, the Dutch |
| Meditech Installs EHR Genomics Add-on at Health Systems in Pursuit of Precision Medicine | <https://www.genomeweb.com/informatics/meditech-installs-ehr-genomics-add-health-systems-pursuit-precision-medicine> | GenomeWeb | 2022 | Fearing recalled performing a pharmacogenomics demonstration for a psychiatry hospital when the Clinical Pharmacogenetics Implementation Consortium (CPIC) had just changed its guidelines for prescribing the antipsychotic drug Abilify (aripiprazole) minutes earlier. |
| Mayo Clinic Study Bolsters Implementation of PGx Data in Clinical Practice | <https://www.genomeweb.com/molecular-diagnostics/mayo-clinic-study-bolsters-implementation-pgx-data-clinical-practice> | GenomeWeb | 2022 | The sequencing panel was designed to target genes that the Clinical Pharmacogenetics Implementation Consortium (CPIC) had published clinical guidelines for and address 21 recognized drug-gene pairs, Scherer said. |
| Legislators Introduce Bill Seeking to Raise PGx Awareness, Adoption | <https://www.genomeweb.com/molecular-diagnostics/legislators-introduce-bill-seeking-raise-pgx-awareness-adoption> | GenomeWeb | 2022 | "Physicians don't learn about pharmacogenomics in their training, not usually in their didactic courses, and they have very little exposure to it when they're in their residences and even in fellowships," said Kelly Caudle, a co-principal investigator of the Clinical Pharmacogenetics Implementation Consortium |
| New Rapid genomic testing at Manchester University NHS Foundation Trust hospitals prevents at-risk neonates from potential lifelong hearing loss | <https://www.healthtechdigital.com/new-rapid-genomic-testing-at-manchester-university-nhs-foundation-trust-hospitals-prevents-at-risk-neonates-from-potential-lifelong-hearing-loss/> | Health Tech Digital | 2022 | Approximately 1 in 500 babies have the m.1555A>G genetic variant.1  In non-acute clinical cases, guidance from the Clinical Pharmacogenetics Implementation Consortium (CPIC) and from the UK Medicines and Healthcare Regulatory Agency (MHRA) already recommends that genetic testing is carried out and that |
| Leading PGx Resources Show Incongruous Gene-Drug Interactions, Dosing Recommendations | <https://www.insideprecisionmedicine.com/topics/molecular-dx-topic/pharmacogenomic-testing/leading-pgx-resources-show-incongruous-gene-drug-interactions-dosing-recommendations/> | Inside Precision Medicine | 2022 | Credit: krisanapong detraphiphat/Getty     Only five of the 126 drugs that were listed by both the FDA’s Table of Pharmacogenetic Associations and those listed by the Clinical Pharmacogenetics Implementation Consortium (CPIC) showed the same drug-gene associations and dosing implications. |
| Maximizing Time Efficiencies with an End-to-End Automated Clinical Workflow for Pharmacogenomics Testing | <https://www.insideprecisionmedicine.com/sponsored/maximizing-time-efficiencies-with-an-end-to-end-automated-clinical-workflow-for-pharmacogenomics-testing/> | Inside Precision Medicine | 2022 | Today, close to 15% of EU-EMA and US-FDA approved medications have PGx information in their labels.2 The Clinical Pharmacogenetics Implementation Consortium (CPIC), established in 2009, publishes guidelines to help clinicians understand how to use genomic information to inform drug prescription, including |
| The Rise of Precision Prescribing | <https://www.insideprecisionmedicine.com/topics/patient-care/the-rise-of-precision-prescribing/> | Inside Precision Medicine | 2022 | The Christ Hospital  As Blaxall points out, there has been a stark increase in the number of medications recommended for prior genetic testing by CPIC (Clinical Pharmacogenetics Implementation Consortium). |
| This Test Could Save Your Life | <https://medshadow.org/pgx-testing/> | MedShadow Foundation Blog | 2022 | The Clinical Pharmacogenetics Implementation Consortium maintains a list of PGx tests which designates which are most highly recommended. The tests for medications at the top of the list have the greatest amount of evidence supporting their use thus far.   Testing can save you time and money. |
| Evidence Grows for Value of Pharmacogenomics | <https://www.pharmacypracticenews.com/Clinical/Article/06-22/Evidence-Grows-for-Value-of-Pharmacogenomics/67206?ses=ogst> | Pharmacy Practice News | 2022 | Recent guidelines issued by the Clinical Pharmacogenetics Implementation Consortium (CPIC)—the leading body guiding clinical use of PGx—state that CYP2D6 genetic variations are “clinically relevant” for codeine and tramadol therapy, but only “possibly informative” for hydrocodone therapy, and “not informative |
| 26 articles | https://www.genomeweb.com/subscribe?gclid=CjwKCAjw\_b6WBhAQEiwAp4HyIEsIC48daoDDQlBrk5au8gDMhu1TECQdG3DFakNVv4STcvdqH0IvEBoCN6IQAvD\_BwE | GenomeWeb | 2017-2022 | 26 articles |