

## DRAFT ASHP Guidelines on the Pharmacy and Therapeutics Committee and the Formulary System

### 1 Purpose

2 These guidelines outline important considerations and recommend processes for formulary  
3 system management. Pharmacist responsibilities and roles in managing the formulary system in  
4 partnership with other healthcare professionals are embedded throughout. These guidelines  
5 also provide assistance to pharmacists in the organization and operation of the pharmacy and  
6 therapeutics (P&T) committee or equivalent body, evaluation of medications for formularies,  
7 and development and implementation of strategies to optimize medication use through the  
8 formulary system. A glossary of terms is provided in Appendix A.

9

### 10 Formulary and formulary system

11 A *formulary* is a continually updated list of medications and related information, representing  
12 the clinical judgment of physicians, pharmacists, and other experts in the diagnosis,  
13 prophylaxis, or treatment of disease and promotion of health. A formulary includes, but is not  
14 limited to, a list of medications and medication-associated products or devices, medication-use  
15 policies, important ancillary drug information, decision-support tools, and organizational  
16 guidelines. A *formulary system* is the ongoing process through which a healthcare organization  
17 establishes policies regarding the use of drugs, therapies, and drug-related products and  
18 identifies those that are most medically appropriate and cost-effective to best serve the health  
19 interests of a given patient population.<sup>1</sup> Formulary systems are used in many different settings,  
20 including hospitals, acute care facilities, home care settings, and long-term-care facilities, as

21 well as by payers such as Medicare, Medicaid, insurance companies, and managed care  
22 organizations. Many organizations have policy statements on the use of formularies.<sup>2-8</sup> These  
23 guidelines focus on the use of formulary systems in hospitals and health systems, in both  
24 inpatient and outpatient settings.

25

## 26 **Evolution of formularies**

27 Formulary systems have evolved over time. Modern formularies began as rudimentary drug  
28 lists developed by the military in the 1940s and came into more widespread use during the  
29 1950s. Pharmacists, in conjunction with their organizations, developed policies to dispense  
30 generic equivalent drugs when a specific brand-name drug was prescribed. In the late 1950s,  
31 the ASHP minimum standard for pharmacies in hospitals called for the implementation of a  
32 formulary system.<sup>9</sup>

33         During the 1960s, the concept of a hospital formulary continued to grow. Hospitals  
34 developed policies that authorized pharmacists to make generic interchanges in an institutional  
35 formulary system based on prior consent from physicians.<sup>10</sup> ASHP and the American Hospital  
36 Association (AHA) issued joint statements on the legality of formularies.<sup>11,12</sup> AMA and the  
37 American Pharmaceutical (later Pharmacists) Association subsequently joined with ASHP and  
38 AHA to revise the statements.<sup>13</sup> In 1965, two significant events occurred: (1) Medicare listed  
39 formularies as a reimbursement eligibility requirement<sup>14</sup> and (2) the Joint Commission on the  
40 Accreditation of Hospitals (now known as the Joint Commission) included an active P&T  
41 committee in its accreditation requirements.<sup>15</sup> Even with these actions, formularies were  
42 typically no more than lists of drugs stocked by the pharmacy.

43 By the 1980s, literature describing the clinical and economic value of well-designed  
44 formularies emerged. Evidence from the hospital setting was published first, soon followed by  
45 evidence from the ambulatory care environment.<sup>10</sup> This literature led to more widespread  
46 acceptance of formularies by providers, payers, and industry.<sup>5,16</sup>

47 Today, formulary systems are considered an essential tool for healthcare  
48 organizations. Formularies have grown from simple drug lists to comprehensive systems of  
49 medication-use policies intended to ensure safe, appropriate, and cost-effective use of  
50 pharmaceuticals in patient care.

51

## 52 **P&T committee**

53 The P&T committee is generally the medical staff committee responsible for managing the  
54 formulary system. The P&T committee provides an evaluative, educational, and advisory  
55 service to the medical staff and organizational administration in all matters pertaining to the  
56 use of medications, which may include investigational medications, in collaboration with the  
57 institution's designated investigational review board. The P&T committee should be  
58 responsible for overseeing policies and procedures related to all aspects of medication use  
59 within an institution.

60 The P&T committee's organization and authority should be outlined in the  
61 organization's medical staff bylaws, medical staff rules and regulations, and other  
62 organizational policies, as appropriate. The description of organization and authority becomes  
63 even more important as healthcare facilities merge into larger health systems.

64 Typically, P&T committee member appointments are made based on guidance from

65 the medical staff. Voting members include facility medical staff, other prescribers,  
66 pharmacists, nurses, and administrators. If the scope of the P&T committee includes a health  
67 system, site representation needs to be addressed to ensure equitable input from each  
68 facility. Additional supporting P&T committee members may include quality improvement  
69 managers, informaticists, and other healthcare professionals and staff who participate in the  
70 medication-use process.

71 The P&T committee should have the following administrative components in place to  
72 maximize meeting effectiveness:

- 73 • Charter
- 74 • Process to track attendance
- 75 • Definition of quorum
- 76 • Process to allow (or disallow) delegation of vote
- 77 • Process to appeal committee decisions
- 78 • Defined term limits for members
- 79 • Process for identifying, disclosing, and addressing conflicts of interest (COI)
- 80 • Policy and procedures
- 81 • Scope of committee responsibility (e.g., specific site or entire system; inpatient or  
82 outpatient sites; drugs, devices, and biologics)

83

84 Other responsibilities of the P&T committee include medication-use evaluation (MUE),  
85 adverse drug event monitoring and reporting, medication error prevention, medication safety,  
86 and development of clinical care plans and medication management initiatives (e.g. protocols,

87 restrictions, guidelines, etc.). Information about these activities is available in ASHP guidelines  
88 on the topics.<sup>17-20</sup>

89 Oversight of a formulary system and the capacity to make appropriate formulary  
90 decisions requires consideration of patient care factors and a thorough, unbiased review of the  
91 biomedical literature. Voting members should be required to provide COI statements to avoid  
92 actual or perceived interference with evidence-based decisions.<sup>21</sup> Some healthcare  
93 organizations exclude healthcare professionals with COIs from P&T committee membership,  
94 whereas others allow participation in committee discussions but prohibit voting on particular  
95 items. Practitioners requesting additions or changes to the formulary should also be required to  
96 disclose financial relationships with pharmaceutical companies and other potential COIs to the  
97 P&T committee.

98

### 99 **Managing the formulary system**

100 Health systems should develop, maintain, and implement a formulary management process.  
101 Decisions on the management of a formulary system should be founded on the evidence-based  
102 clinical, ethical, legal, social, philosophical, quality-of-life, safety, and economic factors that  
103 result in optimal patient care.<sup>22-24</sup> The process must include the active and direct involvement  
104 of physicians, pharmacists, and other appropriate healthcare professionals, as well  
105 representatives with expertise in finance, law, and informatics. This evidence-based process  
106 should not be based solely on economic factors. The formulary system should be standardized  
107 within integrated health systems when standardization leads to improved patient outcomes  
108 and safety.

109 Management of a formulary system is a significant component of a healthcare  
110 organization's ongoing medication-use policy development process. A comprehensive, well-  
111 maintained formulary is tailored to the organization's patient care needs, policy framework,  
112 and medication-use systems while ensuring alignment with medication management standards  
113 of accrediting organizations.<sup>25</sup> A well-managed formulary system ensures a close relationship  
114 among the organization's medication-use policies, the therapies offered by the organization,  
115 and the medications routinely stocked in the pharmacy. A formulary also identifies those  
116 medications that are most medically appropriate and cost-effective to best serve the health  
117 interests of the health system's patient population. The P&T committee should interpret the  
118 term *medication* broadly in the context of care delivery to include alternative remedies (herbals  
119 and supplements), nonprescription drugs, blood derivatives, contrast media, and other  
120 diagnostic and treatment agents.<sup>25</sup>

121 The formulary system should review and approve all policies related to the medication-  
122 use process; all medication-use policies, regardless of their origination, should flow through  
123 the P&T committee. The organization's medical staff leadership (i.e., the body to which the  
124 P&T committee reports) should complete the final policy approval. Policy review and revision  
125 should occur as new information becomes available and at regularly established intervals (e.g.,  
126 annually). The organization should have medication-use policies that address the following:

- 127 • How medications are requested for addition to or deletion from the formulary.
- 128 • How medications are reviewed for addition to or deletion from the formulary, including  
129 who performs the reviews.
- 130 • The process for developing, implementing, and monitoring medication-use guidelines.

- 131 • Methods for ensuring the safe prescribing, distribution, administration, and monitoring  
132 of medications.
- 133 • Methods for selection of suitable manufacturers for specific medications (the pharmacy  
134 department is responsible for specifications for the quality, quantity, and source of  
135 supply of all medications, chemicals, biologicals, and pharmaceutical preparations used  
136 in the diagnosis and treatment of patients).<sup>26</sup>
- 137 • The process for using nonformulary agents within the hospital and health system.
- 138 • The process for managing drug product shortages.
- 139 • The process for developing an organization or health system-specific MUE plan.
- 140 • Policies regarding specific medication-use processes (e.g., procurement, prescribing,  
141 distribution, administration, monitoring).
- 142 • The process for disseminating medication-use policies and how users will be educated  
143 regarding the process.
- 144 • Implementation of P&T committee decisions into the electronic health record (EHR).

145

146 A formal process to review medication-use policies should be in place. This process may  
147 include the use of expert panels or subcommittees of the P&T committee. Expert panels or  
148 subcommittees should serve in an advisory role to the P&T committee, and their membership  
149 should include recognized experts in their areas of practice. The P&T committee may also find  
150 subcommittees that address specific therapeutic areas to be beneficial (e.g., antimicrobial,  
151 oncology therapy, cardiovascular, adverse drug reaction, pharmacogenomics, or  
152 biotechnology subcommittees). Panels and subcommittees are helpful in applying clinical

153 study results to specific patient populations and developing recommended strategies for the  
154 safe and effective use of medications. Subcommittee and panel members can help educate  
155 groups of physicians, who ultimately drive prescribing behaviors, about significant formulary  
156 changes. User groups, representing those primarily affected by the policy, may also be helpful.

157         The P&T committee should have formal interactions (i.e., communication lines) with  
158 other committees whose functions may affect the medication-use process. These committees  
159 would include those responsible for developing tools to facilitate medication use (e.g., forms  
160 or order set review committee, computerized prescriber order entry committee), those  
161 concerned with safety or performance improvement (e.g., quality improvement or patient  
162 safety committees), those involved in developing patient care policies (e.g., medical and  
163 nursing committees), those involved with investigational medications (e.g., investigational  
164 review boards), and other committees whose actions may affect medication use (e.g.,  
165 nutrition, equipment and supply, or finance committees). Recommendations from other  
166 committees, subcommittees of P&T, expert panels, and others should be submitted to the  
167 P&T committee for review. P&T committee decisions on recommendations should be  
168 communicated to the recommending group in a timely fashion.

169         Finally, the role of pharmaceutical company representatives and medical science  
170 liaisons in a healthcare organization should be carefully considered. Organizational guidelines  
171 should define appropriate relationships and interactions with such individuals. At a minimum,  
172 these guidelines should address the provision of pharmaceutical samples, indirect or direct  
173 funding support, and educational programming regarding formulary and nonformulary  
174 medications. Applications for formulary additions should be initiated and completed

175 independently by the requesting healthcare provider and not by an industry representative or  
176 vendor. Refer to ASHP's Guidelines on Pharmacists' Relationships with Industry for more  
177 information on appropriate interactions with industry.<sup>27</sup>

178

### 179 **Evaluating medications for inclusion in the formulary**

180 The P&T committee should use a structured, evidence-based process in the evaluation of  
181 medications for formulary consideration. The P&T committee should be provided with  
182 information that reflects a thorough, accurate, and unbiased review and analysis of the  
183 evidence available in the scientific literature. The evaluation process should encourage  
184 objective consideration of clinical and care delivery information, facilitate communication,  
185 foster positive patient outcomes, and support safe and effective medication ordering,  
186 dispensing, administration, and monitoring. Decisions made by the P&T committee should  
187 support improved patient care outcomes across the continuum of care.

188 ***Evidence-based evaluation.*** Inclusion of a medication on a health system's formulary  
189 should reflect that an evidence-based evaluation of the relative merits and risks of the  
190 medication has been performed and that the institution's P&T committee, with input from  
191 appropriate experts, has determined that the medication is appropriate for routine use in the  
192 management of the patient population at that institution (see Appendix B for a description of  
193 the four major types of reviews used in such evaluations).

194 Evidence-based medicine is a systematic approach to the evaluation of biomedical  
195 literature and application to clinical practice and should be applied to formulary decision-  
196 making for medication product selection.<sup>23</sup> Evidence-based decision-making standardizes and

197 improves the quality of patient care and promotes cost-effective prescribing.<sup>23,24</sup> To practice  
198 evidence-based medicine, practitioners must be proficient in retrieving, evaluating, and  
199 applying the biomedical literature to clinical practice.

200 Evidence-based decision-making incorporates the systematic approach to reviewing,  
201 evaluating, and applying the biomedical literature to guide formulary decisions. Various types  
202 and strengths of evidence (e.g., meta-analyses, randomized clinical trials, case reports,  
203 association consensus statements) may be useful in the decision-making process. Although  
204 different types of evidence are available for application, those with stronger evidence should be  
205 used to drive formulary decisions (e.g., meta-analyses, randomized controlled trials). Other  
206 types of evidence have a role in the decision-making process, however, and may be appropriate  
207 when stronger evidence is not available. Observational studies (i.e., case-control and cohort  
208 studies), case reports, and consensus opinions may be valuable even when stronger evidence is  
209 available. Some organizations find it useful to grade evidence when evaluating formulary  
210 requests; several tools are available for this purpose.<sup>28-32</sup>

211 Published evidence and expert opinion are not the only resources available to aid in  
212 the formulary decision-making process. Internal data and prescribing and outcomes  
213 information may be helpful in formulary decision-making. When published data are not  
214 available, it may be appropriate to incorporate expert opinion into the review process. Experts  
215 in practice areas sometimes have access to unpublished data or reports that may offer insight  
216 into difficult formulary decisions.

217 The formulary decision-making process should be guided by an independent review of  
218 evidence published in the biomedical literature, application of expert opinion, and use of

219 internal data and benchmarking programs. If a P&T committee uses dossiers prepared by  
220 pharmaceutical manufacturers, it should do so with the utmost caution, since the objectivity  
221 of these documents may be challenged.

222 Information used in the formulary decision-making process should be provided to the  
223 P&T committee in a written document with a standard format (e.g., a drug monograph, drug  
224 review, drug-evaluation document).<sup>33</sup> All information provided in the drug-evaluation  
225 document should be referenced to the evidence or identified as a conclusion supported by  
226 evidence. Any areas of consensus recommendations or opinion should be clearly identified.

227 Formulary status recommendations (e.g., from drug information services or expert  
228 groups) may be included in the drug-evaluation document. In some organizations,  
229 recommendations are not provided in the written document in order to promote an unbiased  
230 discussion by the P&T committee. Recommendations should consider the formulary status  
231 (addition or rejection) of a medication, as well as the need for restrictions, educational efforts,  
232 or policies and procedures to ensure safe and appropriate use within the health system.

233 ***Pharmacoeconomic assessments.*** Rigorous pharmacoeconomic evaluations can and  
234 should be conducted in some cases when reviewing new medications. These evaluations should  
235 explicitly state the perspective of the analysis (e.g., patient, healthcare provider, payer) and  
236 should include consideration of all costs and consequences relevant to that perspective. When  
237 new medications being considered are found to be therapeutically equivalent to existing  
238 alternatives (i.e., having equivalent efficacy and safety), then the cost-minimization approach is  
239 appropriate. In these circumstances, it is important to consider costs associated with the  
240 medication and non-medication-related costs (e.g., costs of administration, monitoring,

241 prolonged hospital stay, and laboratory test monitoring; costs to patients and providers).

242           While cost-effectiveness analysis (evaluating the incremental difference in investment  
243 necessary to produce an incremental difference in clinical outcome) is another potentially  
244 useful analytic approach, it is not often used for formulary decision-making because of its  
245 complexity and need for strong evidence or data. The academic value of this approach lies in  
246 its ability to show how little (or how much) must be spent to achieve a particular margin of  
247 clinical advantage when comparing an alternative that is more expensive but safer or more  
248 efficacious. No standards currently exist to determine what cost is reasonable for a given  
249 improvement in outcome; however, it is unreasonable to recommend alternatives of lower  
250 quality simply to achieve cost savings. This approach can be used to demonstrate how a  
251 decrease in clinical outcomes associated with the use of a less-expensive agent can be offset  
252 by investing the savings achieved in other interventions that produce even greater total  
253 benefits. When evaluating cost-effectiveness, it is important to consider the appropriate class  
254 of trade of where the drug is administered.

255           Cost-utility evaluations (evaluating the incremental difference in investment necessary  
256 to produce an incremental difference in quality-of-life-adjusted clinical outcome [e.g.,  
257 incremental cost per quality-adjusted life years gained for one medication versus another])  
258 may also be beneficial by serving to reflect patient preference in formulary decision-making.  
259 However, the same concerns related to the use of cost-effectiveness evaluations apply to this  
260 approach.<sup>34-36</sup>

261           Decision analysis models incorporating local data can be employed when published  
262 pharmacoeconomic data are limited or unavailable. Probabilities for each outcome can be

263 extracted from the published literature or drawn from local data sources, which would  
264 provide a more relevant local perspective on outcomes. Costs associated with medications  
265 and outcomes should reflect those of the healthcare system.

266         Pharmacoeconomic analyses published in the medical literature or provided in the  
267 manufacturer’s formulary dossier should be analyzed carefully before being included as part  
268 of the review process. Particular attention should be paid to the assumptions made in these  
269 studies. In many situations, assumptions made to simplify economic studies are not valid in  
270 particular institutions. Institution-specific costs are often different from the costs used in  
271 published studies, and local data should be used when incorporating their results into  
272 medication reviews.<sup>37,38</sup>

273         Even if a formal pharmacoeconomic evaluation is not included in a drug review  
274 document, a financial evaluation must be conducted, including consideration of site of care,  
275 non-medication-related costs and financial consequences to the pharmacy and to the  
276 organization as a whole.

277         ***Formulary exceptions.*** Exclusion of a medication from a formulary may affect coverage  
278 of and access to the medication. In a closed formulary system, for example, only medications  
279 listed on the formulary are covered under the patient’s drug benefit. Regardless of health-  
280 system setting, the formulary system should include an exception process that provides  
281 prescribers and patients with timely access to medications that are not on the formulary but  
282 are medically necessary for the care of the patient. The underlying principle for such a process  
283 is that unique patient needs may not be satisfied by use of the formulary medications. The  
284 formulary exception process should generate information on nonformulary medication use that

285 will enable the P&T committee to evaluate trends in such use. Criteria for approval of  
286 nonformulary medications should be developed (e.g., allergy to or therapeutic failure of  
287 formulary alternative, condition not treatable by formulary medications).

288 ***Subformularies.*** Depending on state regulations, subformularies may be developed and  
289 maintained, using the same evidence-based process, to provide lists of appropriate and  
290 approved medications for furnishing by nonphysician providers or to specific patient subsets,  
291 such as Medicare patients. Health systems must follow specific rules and regulations provided  
292 under the U.S. Medicare Modernization Act of 2003 in their evaluation and inclusion of  
293 medications in a Medicare formulary for those medications to be covered.<sup>39</sup>

294

#### 295 **Strategies for managing medication use**

296 Common strategies for managing medication use via the formulary include use of generic  
297 drugs, biosimilars, and specialty medications; therapeutic interchange; guided-use policies,  
298 clinical practice guidelines; and MUE.

299 ***Generic drugs.*** Optimizing the number of medication entities and products available  
300 from the pharmacy can produce substantial patient care and financial benefits. These benefits  
301 are greatly increased through the use of generic equivalents (drugs considered bioequivalent by  
302 FDA [i.e., AB-rated drug products<sup>40</sup>]). The use of generic equivalents is encouraged in order to  
303 provide the best possible care at an affordable cost. Use of generic drugs that have been  
304 deemed bioequivalent by FDA does not require review or approval by the P&T committee,  
305 although a review of all new generic medications for key safety issues (e.g., look-alike, sound-  
306 alike concerns) should be conducted to prevent medication errors when possible. For some

307 drug categories, such as those with a narrow therapeutic range, a more thorough evaluation of  
308 the bioequivalency data and approval of experts or the P&T committee should be considered  
309 before implementing a generic substitution.

310 The P&T committee should establish policies and procedures governing the dispensing  
311 of generic equivalents when branded products are ordered. These policies and procedures  
312 should include the following points:

- 313 • The pharmacist is responsible for selecting from available generic equivalents those  
314 drugs to be dispensed pursuant to a prescriber's order for a particular medication.
- 315 • The prescriber has the option, at the time of prescribing, to specify the brand or supplier  
316 of the drug to be dispensed for that particular medication order if considered clinically  
317 justified.
- 318 • The prescriber's decision should be based on pharmacologic or therapeutic  
319 considerations (or both) relative to that patient.

320 **Biosimilars.** A biosimilar is a biological product that is highly similar to and has no  
321 clinically meaningful differences from an existing FDA-approved reference product. Several  
322 entities have been approved as biosimilars by the FDA, and inclusion of these products on  
323 formulary should be considered as a strategy for management of the medication-use system.  
324 Biosimilars are not generically equivalent to the reference product, so the P&T committee  
325 should be involved in the decision to include these products on formulary. The implications for  
326 patients must also be considered, including coverage and reimbursement models by payers,  
327 any differences in clinical indications or activity between the reference product and the  
328 biosimilar, and contractual obligations.

329           **Specialty medications.** P&T committees should be involved in the organization's  
330 approach to managing specialty medications to ensure the pharmacy has the ability to provide  
331 medications in a timely manner, to support patient access to medications and provide  
332 continuity of care. ASHP has resources to aid in specialty pharmacy management, including the  
333 ASHP Specialty Pharmacy Resource Guide.<sup>41</sup> This guide provides guidance on white- and brown-  
334 bagging strategies.

335           **Therapeutic interchange.** Therapeutic interchange is the authorized exchange of  
336 therapeutic alternatives in accordance with previously established and approved written  
337 guidelines, policies, or protocols within a formulary system.<sup>1,42</sup> Drugs appropriate for  
338 therapeutic interchange are drug products with different chemical structures that are expected  
339 to have similar therapeutic effects and safety profiles when administered to patients in  
340 therapeutically equivalent doses. Therapeutic interchange provides pharmacists with the  
341 authorization to use a formulary therapeutic alternative in place of a nonformulary medication  
342 or a nonpreferred formulary medication without having to contact the prescriber. Ideally,  
343 therapeutic interchanges are built into the EHR to allow for seamless substitution of formulary  
344 products. A process should be established for when the prescriber wishes to opt out of the  
345 interchange. Adequate educational initiatives should be undertaken to ensure that everyone  
346 affected (prescribers, patients, pharmacists, nurses, and other healthcare professionals) is  
347 notified of the therapeutic interchange.

348           **Guided-use strategies.** Medications may be added to the formulary with additional  
349 processes in place to guide the use of the medications to improve therapeutic outcomes,  
350 prevent adverse events, or reduce costs. All guidelines for use for both on- and off-label

351 indications should be developed using evidence-based decisions, based on the current medical  
352 literature.<sup>43</sup> Examples of strategies to help guide the use of medications may include the  
353 following.

354 Established-use criteria. Patients must meet the established criteria before the medication  
355 is dispensed. A process should be developed to cover situations in which the patient does not  
356 meet the established criteria, but the medication is nevertheless determined to be medically  
357 necessary. This strategy may also be useful when medications are in short supply.

358 Restricting drug use by specialty service. A specific service must approve the use of the  
359 drug before dispensing. This strategy can be used when inappropriate use or severe adverse  
360 effects may occur, and it can also be employed for antimicrobial agents when inappropriate  
361 use or overuse can result in resistant organisms and pose a danger to the general patient  
362 population or the public. Alternatively, ordering of a specific medication may be limited to a  
363 specific group of prescribers. (e.g., restricting use of chemotherapy agents to oncologists).

364 Designating medications for use in specific areas. Such policies can be helpful when  
365 administration of a medication requires special equipment or staff with particular skills to use  
366 the medication safely (e.g., limiting neuromuscular blockers to operating rooms and critical  
367 care areas).

368 Approval of medical director (or designee) before drug use. This strategy is particularly  
369 appropriate when the P&T committee has reviewed a high-cost medication and determined  
370 that the drug has little or no role in the care of patients at that organization but a prescriber  
371 would like to use the medication on a nonformulary basis. This strategy may also be used as an  
372 approval pathway for medications requested for use outside of established use criteria.

373            *Clinical practice guidelines.* Clinical practice guidelines are developed and disseminated  
374 by national and international organizations, but they can also be developed locally.

375            Whether the medication formulary is a reflection of existing clinical practice guidelines in a  
376 particular organization or vice versa, it is critical that the guidelines and formulary are  
377 consistent. If a specific medication is recommended by a clinical practice guideline, it should in  
378 the majority of cases be on the formulary. As formulary changes are made, agents may need to  
379 be removed from or replaced in existing guidelines. Guidelines should avoid recommending use  
380 of nonformulary medications, and they can be useful in discouraging nonformulary medication  
381 use and guiding the appropriate use of formulary products when necessary.

382            Guidelines are frequently developed to address complex or particularly expensive  
383 medication therapies. However, complicated specialty therapies that will affect the care of very  
384 few patients may not justify the time and resources necessary to develop and maintain a  
385 guideline. Guidelines may be medication specific or disease oriented and may overlap in their  
386 scope of coverage.

387            The development of a clinical practice guideline should begin with the synthesis of all  
388 available biomedical evidence addressing the guideline topic. In many cases, guidelines from  
389 other organizations, both national and local, can be used as a starting point for development.  
390 The subsequent consensus process, eliciting feedback and input from local stakeholders, is  
391 critical. Data from the organization should be used to make informed decisions during the  
392 consensus process. After the consensus process is completed, the guideline should be reviewed  
393 and approved by the P&T committee.

394            The dissemination and implementation of guidelines in the practice environment must

395 also be carefully executed. Communication about the availability of guidelines is necessary.  
396 Guidelines should be readily available through existing health-system platforms. If feasible, it  
397 is recommended to build the guidelines into the computer provider order entry system (e.g.,  
398 through order set creation) to facilitate the appropriate care of the patient. Every guideline  
399 should include a time frame for future review and revision.

400 If utilization of a medication is being requested outside established health-system  
401 guidelines for appropriate use, scientific evidence to support safety and efficacy should be  
402 provided and reviewed to substantiate the request.

403 **MUE process.** MUE is a quality-improvement activity, but it can also be considered a  
404 formulary system management technique. MUEs have traditionally involved evaluating  
405 evidence-based criteria to determine the health system's compliance with established  
406 standards. Interventions could then be used to improve prescribing based on those data.

407 MUE can be simply informative (collecting data to guide decision-making) or used to  
408 measure the effect of interventions, such as the addition of a new agent to the formulary or the  
409 implementation of a new medication-use policy. While MUE often focuses on problem-prone,  
410 high-risk, or high-cost medications, MUE can be used to examine any aspect of medication use  
411 that is problematic to the institution conducting the evaluation. Medications recently added to  
412 the formulary should be evaluated, especially if there is the potential for inappropriate use or  
413 adverse effects. This review should occur 6–12 months after their addition to the formulary.  
414 High-cost, high-use, and problem-prone medications are also good candidates for evaluation.

415 A systematic plan to monitor, evaluate, and improve medication use should be  
416 established within the organization.<sup>17</sup> Such a plan is an accreditation requirement for many

417 organizations (e.g., Joint Commission<sup>25</sup>). The P&T committee, or its equivalent, should be  
418 involved in the MUE process.

419

#### 420 **Incorporating patient safety issues in the decision-making process**

421 The P&T committee should systematically address medication and patient safety issues as part  
422 of its deliberations. The P&T committee should ensure that medication-use policies adequately  
423 address potential risk and safety issues. Hospital or health-system medication-event data,  
424 including near misses, should consistently be reviewed by the P&T committee, along with  
425 recommendations to prevent future events. The P&T committee should also review available  
426 information on medication or patient safety events reported by other organizations to identify  
427 ways to prevent medication events and disseminate the information to healthcare providers  
428 and, when appropriate, patients.

429       When evaluating a medication for inclusion on the formulary, the P&T committee and  
430 its supporting subcommittees or panels should consider adverse effects, preparation issues,  
431 sound-alike or lookalike potential, and dosing or administration issues. Proactive assessments  
432 should be conducted to identify potential safety concerns posed by use of the medication, and  
433 proposed strategies to mitigate those risks should be implemented by the P&T committee. In  
434 addition, quality improvement projects to improve the safety of specific medications or to  
435 evaluate the processes involved should be conducted and reviewed by the P&T committee. The  
436 P&T committee should champion evidence-based fail-safe techniques (e.g., bar-coding) to  
437 prevent medication events.

438       Resources that provide information on medication or patient safety events include the

439 Institute for Safe Medication Practices ([www.ismp.org](http://www.ismp.org)) and Medwatch. The Joint Commission,  
440 Institute for Healthcare Improvement, and National Center on Patient Safety provide  
441 information about conducting and examples of failure mode and effects analysis (FMEA)  
442 projects on their websites ([www.jointcommission.org/](http://www.jointcommission.org/), [www.ihi.org/](http://www.ihi.org/), and  
443 [www.patientsafety.va.gov](http://www.patientsafety.va.gov)).

444

#### 445 **Implementation of formulary decisions into the EHR**

446 Use of the EHR to implement, guide, and evaluate decisions made by the P&T Committee is  
447 essential. EHR technology functionality should be maximized to support drug policy and  
448 formulary management decisions. A standard process, including established expectations for  
449 timeliness, should be developed to consistently and efficiently implement these decisions into  
450 the EHR. Multi-hospital systems and integrated delivery networks that share the same EHR  
451 platform and formulary review process should centralize the coordination of implementation.<sup>44</sup>  
452 EHR implementation efforts should be coordinated with operational changes and education  
453 requirements identified in the decision-making process. Finally, resources and personnel  
454 available to support implementation into the EHR should interface with the P&T committee to  
455 ensure understanding and shared expectations of the EHR technology functionality. In addition,  
456 key content experts charged with evaluating and proposing drug policy and formulary  
457 management decisions should collaborate with informatics personnel on the design and  
458 validation of EHR content.

459

460

**461 Drug product shortages**

462 Health systems frequently need to address drug product shortages. Drug product shortages  
463 disrupt patient care and impact all aspects of the medication-use system, including purchasing,  
464 storage, automation systems, the EHR, preparation, administration, and monitoring.

465         During a drug product shortage, the P&T committee plays an important role. The P&T  
466 committee needs to develop strategies to address shortages in a timely manner, including  
467 designating appropriate therapeutic alternatives, identifying strategies for mitigating use of  
468 available drug product, and establishing use restrictions. All of these strategies should be  
469 developed based on available literature and best practices. Therapeutic interchange can be  
470 useful in dealing with critical drug product shortages. The P&T committee should work  
471 collaboratively with other committees and departments, such as specific medical departments,  
472 nursing, and risk management (when necessary) to develop effective management plans for  
473 addressing shortages. Given the dynamic nature of drug shortages, it is not always possible to  
474 obtain approval from P&T committee members prior to implementation of strategies if there is  
475 a need for urgent changes. To make sure the P&T committee is aware of all changes related to  
476 drug shortages, organizations should include a drug shortage update as a regular agenda item  
477 for the P&T committee. Communication with patients and staff is crucial to effectively manage  
478 shortages.

479         Effective integration of these strategies into the EHR is key to successful implementation  
480 of a drug shortage plan. Various strategies exist for communication in the EHR, including placing  
481 electronic alerts on medications, blocking the ordering of medications on shortage, and  
482 facilitating the build of new medication records or order sets to guide use of alternative agents

483 during the time of the shortage.

484 More information about managing drug product shortages can be found in the ASHP  
485 Guidelines on Managing Drug Product Shortages.<sup>45</sup>

486

#### 487 **Implementing medication-use policies**

488 Various tools can be used to implement medication-use policies. The policy should be  
489 integrated directly into the therapeutic decision-making processes that guide the use of a  
490 medication during order entry or incorporated into diagnosis-specific electronic treatment plan.  
491 Other specific ways of communicating information about a medication-use policy may include  
492 the use of

- 493 • Inservice education,
- 494 • Facility-approved social media,
- 495 • Grand rounds,
- 496 • Communication between pharmacists and prescribers
- 497 • Staff meetings,
- 498 • E-mail,
- 499 • Electronic newsletters,
- 500 • Prescriber detailing, and
- 501 • Pharmacy or institutional websites.

502 Outcome-driven projects may be beneficial in illustrating the value of a new medication-use  
503 policy and support further expansion.

504

**505 Reimbursement strategies and considerations**

506 New payment models require that P&T members are astute in their understanding of the  
507 hospital's and health system's payment policies and reimbursement strategies related to  
508 medications. A balanced approach to managing a hybrid reimbursement structure between  
509 traditional fee-for-service models and emerging value-based contracts will be required.  
510 Financing and reimbursement for medications is complex; hospitals and health systems can no  
511 longer exclusively focus on manufacturing contracts, wholesaler agreements, and inpatient  
512 reimbursement. Large health systems and integrated systems must consider implications of  
513 medication reimbursement by Medicare, Medicaid, 340B, commercial, and private payers. Prior  
514 to approval of high-cost drugs, in collaboration with the finance department, there should be a  
515 benefits investigation conducted, factoring in local payer mix, plans for financial monitoring,  
516 and payor negotiations. The organization should have a defined process and responsible  
517 department for validating reimbursement of therapy and financial outcomes over time. Site of  
518 care decisions are included in determining where a medication will be administered. Each  
519 organization should have policies on the use of medications not directly procured by the  
520 hospital pharmacy. For example, some specialty medication payer agreements circumvent  
521 traditional buy-and-bill dispensing channels and instead dispense the medication directly to the  
522 site of care for patient administration (white bagging) or to the patient, who then carries it to  
523 the site of care for administration (brown bagging).<sup>46</sup>

524

**525 Conclusion**

526 A formulary system is the multidisciplinary, evidence-based process employed by an

527 organization to select and use medications that offer the best therapeutic outcomes while  
528 minimizing potential risks and costs for patients. Organizations should employ the MUE  
529 process to continually improve how medications are used within the organization at all steps  
530 in the medication-use process. Medication use is an inherently complex process that requires  
531 constant evaluation. Organizations need to implement all necessary tools and processes to  
532 meet the goals of safe and effective medication use. Professionals involved in the medication-  
533 use process need to know and understand how the organization's medication-use policies and  
534 processes can be incorporated into their daily work to ensure medications are used  
535 appropriately and safely. Technology offers many opportunities to make those processes more  
536 effective and efficient. Communicating the actions related to medication use is a constant  
537 challenge that organizations need to address.

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## 538 Appendix A—Glossary of Terms

539 **Cost Effectiveness Analysis:** A method for assessing the gains in health relative to the costs of  
540 different health interventions.<sup>47</sup>

541 **Cost Utility Analysis:** A method used to determine cost in terms of utilities, especially quantity  
542 and quality of life, to compare one or multiple drugs or procedures.<sup>48</sup>

543 **Electronic Health Record:** A digital version of a patient’s medical history that is maintained by  
544 the provider over time, and may include all of the key administrative clinical data relevant  
545 to that persons care under a particular provider, including demographics, progress notes,  
546 problems, medications, vital signs, past medical history, immunizations, laboratory data,  
547 and radiology reports.<sup>49</sup>

548 **Formulary:** A continually updated list of medications and related information, representing the  
549 clinical judgment of physicians, pharmacists, and other experts in the diagnosis,

550 prophylaxis, or treatment of disease and promotion of health.

551 **Formulary System:** An ongoing process whereby a healthcare organization, through its  
552 physicians, pharmacists, and other healthcare professionals, establishes policies on the use  
553 of drug products and therapies and identifies drug products and therapies that are the  
554 most medically appropriate and cost-effective to best serve the health interests of a given  
555 patient population.<sup>1</sup>

556 **Generic Substitution:** The substitution of drug products that contain the same active ingredient  
557 or ingredients and are chemically identical in strength, concentration, dosage form, and  
558 route of administration to the drug product prescribed.<sup>1</sup>

559 **Medication:** Any prescription medications, herbal remedies, vitamins, nutraceuticals,  
560 nonprescription drugs, vaccines, or diagnostic and contrast agents used to diagnose, treat,  
561 or prevent disease and other abnormal conditions and radioactive medications, respiratory  
562 therapy treatments, parenteral nutrition, blood derivatives, intravenous solutions (plain or  
563 with electrolytes or drugs), or any product designated by the Food and Drug  
564 Administration as a drug (including investigational drugs).<sup>25</sup>

565 **Medication-Use Evaluation:** A performance-improvement method that focuses on evaluating  
566 and improving medication-use processes with the goal of optimal patient outcomes.<sup>17</sup>

567 **Pharmacy and Therapeutics (P&T) Committee:** An advisory committee that is responsible for  
568 developing, managing, updating, and administering a formulary system.<sup>1</sup>

569 **Therapeutic Alternatives:** Drug products with different chemical structures but of the same  
570 pharmacologic or therapeutic class and usually have similar therapeutic effects and  
571 adverse-reaction profiles when administered to patients in therapeutically equivalent

572 doses.<sup>1</sup>

573 **Therapeutic Interchange:** Authorized exchange of therapeutic alternatives in accordance with  
574 previously established and approved written guidelines or protocols within a formulary  
575 system.<sup>1, 42</sup>

576 **Therapeutic Substitution:** The act of dispensing a therapeutic alternative for the drug product  
577 prescribed without prior authorization of the prescriber. This is an illegal act because only  
578 the prescriber may authorize an exchange of therapeutic alternatives.<sup>1</sup>

## 579 **APPENDIX B – Drug Evaluation Process**

580 There are four major types of drug reviews: new drug monographs, reevaluations of previous  
581 formulary decisions, therapeutic class reviews, and expedited reviews of newly approved  
582 medications. Because of the expertise and training of pharmacists (drug information  
583 specialists in particular), pharmacists should play an integral part in the preparation and  
584 presentation of the drug review document to the P&T committee.

585 ***New drug monographs.*** When the Food and Drug Administration (FDA) approves a new  
586 drug for marketing that is relevant to the health system, a drug monograph should be prepared  
587 for formulary consideration by the P&T committee. New chemical entities warrant a thorough  
588 evaluation and a written drug monograph. A short (e.g., one-page) summary could be provided  
589 along with the full monograph.<sup>33</sup> Some organizations use an executive summary format. A new  
590 drug that is significantly similar to other available therapeutic alternatives may be presented in  
591 a more abbreviated manner (e.g., an abbreviated monograph) provided that the P&T  
592 committee or experts agree that the drug is therapeutically equivalent to agents already

593 available on the formulary.

594 ***Addenda to original monographs used to reevaluate previous formulary decisions.***

595 Formulary decisions may need to be reassessed based on relevant new information or in light  
596 of newly marketed drugs or dosage forms. New data on safety, efficacy, stability, methods of  
597 administration, cost, or pharmacoeconomics may warrant a reevaluation of the drug or  
598 dosage strengths or formulations stocked by the health system. An addendum to the original  
599 monograph summarizing the new information should be developed for evaluation by the P&T  
600 committee. The P&T committee may want to establish reassessment dates at the time of  
601 formulary review so that the committee can reassess the effect of a formulary decision on  
602 quality or cost of care.

603 ***Therapeutic class reviews.*** Review of an entire therapeutic class of drugs should be  
604 performed at regular intervals, which may be determined by the P&T committee or influenced  
605 by regulatory agencies. A therapeutic class review should include all formulary and  
606 nonformulary medications within the class and may include institutional utilization or  
607 outcomes data and newly published information. Therapeutic class reviews may lead to  
608 formulary removal of therapeutically equivalent drugs or a change in restriction or guideline  
609 status for a drug.

610 ***Expedited reviews.*** A process should be available for the P&T committee to conduct an  
611 expedited review of a new drug, new indication for a drug, or reevaluation of a previous  
612 formulary decision. Criteria should be in place to describe when an expedited review is  
613 warranted. For example, approval of a new chemical entity for a disease with no therapeutic  
614 alternative may warrant an expedited review to ensure availability of the drug for patients who

615 need it. Likewise, a significant new safety concern may warrant an expedited review for  
616 addition of restrictions or removal from the formulary.

When approved, these guidelines will supersede the ASHP Guidelines on the Pharmacy and Therapeutics Committee and the Formulary System dated January 28, 2008.

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