The rising costs of cancer care and the aging US population pressure healthcare systems to deliver high-value care while managing costs. Chemotherapy drug prices continue to increase with advances in precision medicine and immunotherapy, with Medicare bearing the larger burden of costs. A 2013 Institute of Medicine (IOM) report on the state of cancer care showed that costs of cancer care are the highest among other healthcare expenditures and are expected to reach $173 billion to $207 billion in 2020. Moreover, the cost of treating cancer poses a significant financial burden on patients, negatively affecting their quality of life (QOL). In addition, the IOM report showed that cancer care was often neither patient-centered nor demonstrative of quality.

In 2015, the Centers for Medicare & Medicaid Services (CMS) passed the Medicare Access and Children’s Health Insurance Program (CHIP) Reauthorization Act (MACRA) to incentivize practices to focus on the delivery of quality care while managing costs. Through the Quality Payment Program (QPP), Medicare payments are now linked to performance on quality programs and metrics. Within health systems, pharmacists are central to cancer care and have opportunities to partner with clinicians at every level of care to improve outcomes. Pharmacists’ involvement in value-based care has been documented in the primary care model.

On June 18, 2019, the Hematology/Oncology Pharmacy Association (HOPA) and the Academy of Managed Care Pharmacy (AMCP) convened a forum to discuss the use of value-based care models in oncology, emphasize the importance of pharmacist involvement in implementing value-based care at their institutions, and create a white paper on this topic.

Objective: To highlight areas of opportunities for oncology pharmacists to participate in the implementation and delivery of value-based care in oncology.

Discussion: This white paper summarizes the HOPA/AMCP forum and serves as a call to action for health system pharmacists to engage in the continuum of cancer care as essential providers of value through the implementation of quality processes that inform safe and effective treatment choices, enhance patient satisfaction with care, and reduce unnecessary healthcare costs. Panel discussions provided examples of successful collaborations between health systems and payers, enabling data exchange and risk stratification of patients and subsequent reorganization of pharmacy resources from volume to value-based activities.

Conclusion: The forum’s recommendations urge pharmacists to engage in the practice of value-based oncology care and will be shared with patient groups, providers, and policymakers to move this conversation forward.

BACKGROUND: In 2019, the Hematology/Oncology Pharmacy Association (HOPA) and the Academy of Managed Care Pharmacy (AMCP) convened a forum to discuss the use of value-based care models in oncology, emphasize the importance of pharmacist involvement in implementing value-based care at their institutions, and create a white paper on this topic.

OBJECTIVE: To highlight areas of opportunities for oncology pharmacists to participate in the implementation and delivery of value-based care in oncology.

DISCUSSION: This white paper summarizes the HOPA/AMCP forum and serves as a call to action for health system pharmacists to engage in the continuum of cancer care as essential providers of value through the implementation of quality processes that inform safe and effective treatment choices, enhance patient satisfaction with care, and reduce unnecessary healthcare costs. Panel discussions provided examples of successful collaborations between health systems and payers, enabling data exchange and risk stratification of patients and subsequent reorganization of pharmacy resources from volume to value-based activities.

CONCLUSION: The forum’s recommendations urge pharmacists to engage in the practice of value-based oncology care and will be shared with patient groups, providers, and policymakers to move this conversation forward.
macy Association (HOPA) and the Academy of Managed Care Pharmacy (AMCP) convened the forum “Value of Cancer Care: Pharmacy Call to Action” in Washington, DC. The goals of the forum were to (1) summarize key points on the use of value-based care models in oncology; (2) emphasize opportunities for and the importance of pharmacist involvement in implementing value-based care at their institutions/practice sites; and (3) create a white paper that emphasizes areas of opportunities for oncology pharmacists in value-based care.

A premeeting survey of forum attendees showed gaps in knowledge about value-based frameworks and their application in practice, and a desire to receive education about value-based payments. Survey responders identified several barriers to the delivery of value-based care, naming lack of personnel, lack of funding, infrastructure challenges, and inefficiencies. The forum gathered health system pharmacists, regional healthcare leaders, pharmacy benefit managers, and employers to engage in a discussion regarding pharmacist involvement in value-based care.

This white paper reviews value-based care models and frameworks and highlights opportunities for pharmacists to participate in quality programs, actively engage in enhancing value for patients and clinicians, and reduce the cost of care. It also serves as a pharmacy call to action for pharmacists in their respective practices.

**Opportunities for Health System Pharmacists**

Within hospital systems, the 3 pillars of value-based cancer care focus on patients, providers, and data. Patient-focused delivery, the first pillar, consists of collecting patient-reported outcomes (PROs), offering acute oncology care, and assisting with financial navigation. Clinician-focused interventions include the development of clinical pathways, defining the goals of care, treatment planning, and implementation of quality metrics endorsed by national quality organizations. Finally, meaningful use of data within enhanced electronic health record (EHR) systems will lead to a better assessment of value.

Patient-directed opportunities include tracking and monitoring PROs with electronic alerts through patient self-reporting of symptoms, such as those often associated with anticancer therapy. According to Basch and colleagues, monitoring PROs was associated with early responsiveness and prevention of adverse events, fewer emergency department visits and hospitalizations, and ability to tolerate continuation of chemotherapy longer compared with standard symptom reporting.

In addition, an overall survival benefit was noted by Basch and colleagues in an earlier study among patients who self-report outcomes. Collection of PROs generated more clinical interventions by healthcare personnel, including outreach calls for symptom management counseling, supportive medications, chemotherapy dosage modifications, and referrals to care. Collecting PROs for even select populations of patients, such as high-risk patients, may be valuable in identifying those who may be more likely to have poor outcomes. Earlier interventions for this patient group may improve outcomes and increase patient satisfaction with care.

Pharmacist-based optimization of acute oncology care is yet another value-added service that can benefit patient-focused and clinician-focused care delivery. Pharmacists can work with providers to help select the best treatment plan for each patient and ensure that drugs within the plan are appropriately dosed and supportive care is provided. Meeting with patients to provide education regarding their treatment, monitoring plan, and management of potential adverse effects is an important part of the overall treatment plan and can minimize complications for patients when they are sent home.

According to Panattoni and colleagues, on average, patients receiving chemotherapy visit the emergency department twice annually. In their study, they concluded that the prevalence of potentially preventable cancer-related emergency department visits could be substantial (41%-63%). Furthermore, overutilization of the emergency department resulted in increased hospital admissions and healthcare costs. Reducing unnecessary emergency department use in oncology has been a focus of Medicare quality improvement programs and is tied to reimbursement.

The Oncology Care Model (OCM) now incorporates rate indicators, such as unnecessary hospital admissions, readmissions or emergency department visits, and treatment-related emergency department visits. Hunis and colleagues created an organizational protocol to decrease emergency department visit rates through identification of the causes of admissions, intervention recommendations, and outcome measurements. Implementation of a telephone triage protocol to identify emergent symptoms and chemotherapy adverse events resulted in a 60% decrease in the number of patients visiting the emergency department through positive interventions. In this model, protocols were developed to help the triage staff handle patient calls. Pharmacists’ expertise can be valuable for developing such protocols and supporting the triage personnel.

Attendees at the HOPA/AMCP forum advocated for the important role of pharmacists in assisting physicians and patients with financial navigation of managing patients with cancer. Financial difficulties that patients with cancer encounter as drug costs rise (now
known as financial toxicity) were associated with psychological distress, delayed access to subsequent care, nonadherence to treatment, and a negative impact on treatment outcomes. According to a recent analysis, average healthcare spending for patients with cancer reaches $25,000 in the month of diagnosis, and high out-of-pocket costs persist well after diagnosis. Thus, integrating cost discussions between physicians and patients is critical to delivering quality cancer care.

Pharmacists and other members of the pharmacy department can serve as a resource for drug financial assistance programs, advising providers and patients. The use of medication assistance programs may lessen the financial burden on patients as well as on the healthcare system.

Additional clinician-focused initiatives center on clinical pathways and meaningful quality metrics. A retrospective multicenter cohort study evaluating the implementation of clinical pathway programs demonstrated a 35% reduction in patient costs among adhering physician practices compared with other practices. Pathways reduce variability in healthcare delivery, which is a well-recognized source of increased costs. Insurance companies are progressively integrating clinical pathways developed by private companies, and using them to assist in formulary inclusion and coverage decisions, as well as to inform appropriate treatment and supportive care options for oncologists.

Pharmacist skills are required to develop and update pathways, as well as to establish a schedule for pathway formulary reviews as new data for existing and novel therapies emerge and guideline updates are published. Pharmacists monitor and audit physician utilization and adherence to pathways and evaluate clinical data for the utilization of off-pathway drugs in special populations. In addition, pharmacists may propose oncology-specific formulary management strategies to assist with coverage decisions and drive the use of cost-effective drug therapies. For example, requests for prior authorization can be submitted to a multidisciplinary team that includes physicians, pharmacists, social workers, nurses, and allied healthcare professionals.

Pharmacist-led initiatives can address practice-based oncology quality measures. Examples include initiatives that focus on the patient-reported experience and satisfaction with care. In addition, treatment planning, chemotherapy handling and administration, patient adherence to treatment, toxicity or complication management, and patient education are all examples of where pharmacists can provide value within their practices.

Finally, a learning health system model that can collect and rapidly analyze real-world data within EHRs is urgently needed to inform answers to clinical questions. Learning health systems generate continuous knowledge at the clinical point of care through linkages and mining of big data sets, collaboration between providers and patients, increased research in practice-based settings, exchange of clinical information in real time, and quality improvement processes.

In today’s clinical practice, the capabilities of learning health systems remain suboptimal. Pharmacists can fill in gaps in different areas of data analysis, collaboration within the multidisciplinary healthcare team, research, and quality improvement. A summary of pharmacist initiatives to support value-based care is provided in Table 1.

### Table 1: Proposed Initiatives and Opportunities for Pharmacist Involvement in Value-Based Cancer Care

<table>
<thead>
<tr>
<th>Patient-focused delivery</th>
<th>Patient-reported outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Symptom management</td>
</tr>
<tr>
<td></td>
<td>Identify high-risk patients with poor outcomes</td>
</tr>
<tr>
<td></td>
<td>Focus efforts and resources on high-risk population to improve patient satisfaction with care</td>
</tr>
<tr>
<td>Acute oncology care</td>
<td>Proactive supportive care to prevent toxicities</td>
</tr>
<tr>
<td></td>
<td>Manage chemotherapy-related toxicities</td>
</tr>
<tr>
<td></td>
<td>Ensure appropriate dosing of treatment regimens</td>
</tr>
<tr>
<td></td>
<td>Promote evidence-based or pathway therapy options</td>
</tr>
<tr>
<td></td>
<td>Educate patients about toxicity management</td>
</tr>
<tr>
<td></td>
<td>Direct patients to clinic or infusion center to prevent admissions</td>
</tr>
<tr>
<td>Financial navigation</td>
<td>Assist patients with financial planning</td>
</tr>
<tr>
<td></td>
<td>Discuss options of therapy and costs of treatment</td>
</tr>
<tr>
<td></td>
<td>Connect patients to medication assistance programs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clinician-focused delivery</th>
<th>Clinical pathways</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Development and management of oncology clinical pathways</td>
</tr>
<tr>
<td></td>
<td>Monitor physician adherence to pathways</td>
</tr>
<tr>
<td></td>
<td>Educate physicians about therapy options</td>
</tr>
<tr>
<td></td>
<td>Apply oncology-specific formulary management strategies</td>
</tr>
<tr>
<td></td>
<td>Implement prior authorization processes for high-cost oncology drugs</td>
</tr>
<tr>
<td></td>
<td>Form multidisciplinary drug review committee to handle oncology prior authorizations</td>
</tr>
<tr>
<td>Goals of care planning and expected benefit documentation</td>
<td>Treatment plan and documentation of results</td>
</tr>
<tr>
<td>Meaningful quality metrics</td>
<td>Implementation of quality measures aligned with those of ASCO, MIPS, and the National Quality Forum</td>
</tr>
<tr>
<td></td>
<td>Chemotherapy safety, anticoagulation, transitions of care, pain management</td>
</tr>
<tr>
<td></td>
<td>Avoid unnecessary lab tests, expensive supportive care</td>
</tr>
<tr>
<td></td>
<td>Reduce end-of-life hospitalizations and chemotherapy use near end of life</td>
</tr>
<tr>
<td>Data integration</td>
<td>Real-world data generation and analytics</td>
</tr>
<tr>
<td></td>
<td>Integrate real-world data within EHR and across healthcare providers to better inform treatment at point of care</td>
</tr>
</tbody>
</table>

ASCO indicates American Society of Clinical Oncology; EHR, electronic health record; MIPS, Merit-Based Incentive Payment System.

Copyright © 2020 by Green Hill Healthcare Communications, LLC; protected by U.S. copyright law. Photocopying, storage, or transmission by magnetic or electronic means is strictly prohibited by law.
Overview of MACRA Legislation and the Quality Payment Program

The recently introduced MACRA legislation rewards quality and value-based care through the QPP. MACRA promises to deliver high-value, high-quality cancer care while controlling cost and achieving best outcomes at the lowest cost. Value-based reimbursement motivates practices to transform the delivery of cancer care through the QPP.

Some objectives of the QPP include improved patient health by improving care; lowering associated healthcare costs; advancing the use of healthcare information between providers and patients; educating and empowering patients; maximizing program participation with easy-to-use tools, education, outreach, and support; and providing actionable performance data to stakeholders with continuous improvement based on feedback and collaboration.

Medicare QPP is delivered via the Merit-Based Incentive Program System (MIPS) or through alternative payment models (APMs). MIPS collects physician-reported data related to the program’s quality measures and rewards physician practices based on their performance. MIPS calculates a final score, the “QPP performance adjustment score,” used to adjust the set physician fee schedule. As shown in the Figure, the MIPS score is divided into 4 large categories, including general and oncology-specific quality measures (45%), interoperability or meaningful use of updated EHRs (25%), attestation of improvement activities (15%), and overall cost of care (15%).

Participation in MIPS is mandatory, unless physicians are exempt, or if they qualify for APMs such as accountable care organizations, capitated model, or integrated care system. In advanced APMs, participating providers may suggest innovative payment mechanisms, new systems for care delivery, or clinical programs for quality and alignment of incentives. Advanced APM practices must have the infrastructure to support EHR use and share financial risks with the program; these practices can receive lump-sum bonus payments.

Pharmacists are currently not eligible to be MIPS providers. However, pharmacists’ activities can naturally affect the goals of the QPP through their daily clinical responsibilities, such as anticoagulation management, medication reconciliation and adherence, data collection, and care coordination. Practices should evaluate their operating models based on pharmacist-provided care models and, if they have not already, engage with pharmacists as effective, accountable care providers.

Medicare’s OCM and ASCO’s Patient-Centered Oncology Payment Model

The OCM refers to a CMS 5-year pilot program started in 2016 across 190 practices in 31 states with multiple commercial payers. The OCM aims to decrease cost, improve quality, and lower Medicare spending. OCM practices enter into contractual agreements requiring improved clinical standards, reporting of quality care metrics, and planning of data registries with quarterly submissions.

The OCM enhances the quality of the health system, with the value-based payment model that motivates patient-centered care and initiatives that drive outcome improvements. The pilot sets episode-based pricing and reimburses practices a Monthly Enhanced Oncology Services payment at the start of chemotherapy treatment of $160 per 6-month episode of care per patient, in addition to the regular fee-for-service per patient. The OCM aims to reduce unnecessary costs and variations in care through clinical oncology pathways, care coordination, and analysis of disease-specific variation. The OCM pilot and resulting data compared the performance among peer physician practices, highlighted patient-level data, and provided clinicians and administrators an in-depth understanding of their institutional needs for specific quality intervention. Key to influencing hospital administrators and to obtaining funding for new initiatives are data that can evaluate outcomes and analyze quality improvement processes and their impact on costs.

Alternative models have been proposed, such as the American Society of Clinical Oncology (ASCO)
Patient-Centered Oncology Payment (PCOP) model, that match the workflow of patient treatment. Essentially, the model provides upfront money at the initial phase that includes diagnosis, choice of therapy, and counseling, and then provides monthly bundled payments during active treatment and management phases through 6 months after the last chemotherapy dose and during the monitoring and support phases. ASCO’s PCOP incentivizes providers to practice high-quality patient care, apply evidence-based use of clinical oncology pathways for drugs and tests, and adhere to ASCO standards of quality.

Another alternative model, MASON (Making Accountable Sustainable Oncology Networks) was approved in 2018 and defines oncology payment categories from a combination of clinical and claims data. Practices contribute 4% of fee-for-service money into a quality funds pool, which will be disbursed back to practices contingent on adherence to triage pathways, or referral processes for patients requiring urgent care, clinical pathways, or appropriate chemotherapy utilization across the continuum of care, as well as patient satisfaction with treatment.

Physicians expressed that, ideally, practices should receive new and continuous money across the patient treatment timeline so they could invest in practice redesign and value-based activities or transform into advanced APMs. Instead of including drug costs in the model, drug utilization and adherence could count as quality metrics that will affect shared savings. A fair model should incentivize the use of the right therapy for the right patient at the right time, with no concerns for cost, and must be dependent on value-based pathways, agnostic of the payer.

Value-Based Frameworks in Oncology

Value-based frameworks are intended as a tool to assess the value of a treatment and enable shared decision-making between patients and providers based on the clinical benefit, toxicities, and overall value to the patient. Value-based frameworks must adopt a patient-centered perspective and incorporate determinants of value and outcomes that are relevant to patients, such as additional years of life, years lived free of disease, functionality, independence, and absence of side effects.

Value-based frameworks evaluate cost and use of therapies in a variety of disease states and are targeted toward different stakeholder perspectives across payers, providers, health systems, and patients.

Outcomes of a treatment may be measured across different dimensions of value, such as time to and sustainability of recovery, patient state of health, freedom from disease, nature of recurrences, and the need for intervention. Furthermore, measuring the results of implemented interventions will guarantee process improvement within healthcare organizations and result in continuous innovation in healthcare delivery.

Value-based frameworks examine the value of a treatment looking at the larger population health data, to analyze overall costs relative to value added, including patients’ QOL during and after treatment, as well as societal costs.

Physician surveys reveal substantial variability in their understanding of value and awareness of value measurement tools. Surveys show that physicians and payers are split relative to the role of frameworks and their application in clinical practice. Lack of confidence in outputs limits a tool’s ability to inform decision-making for individual patients.

ASCO, the Institute for Clinical and Economic Review (ICER), Memorial Sloan Kettering Cancer Center DrugAbacus, and the National Comprehensive Cancer Network (NCCN) have developed value-based frameworks to assist physicians, payers, and multiple stakeholders in their definition of value and in formulary management decision-making. Table 2 provides an overview and comparison of the 4 value-based frameworks discussed.

At the forum, participants reviewed the 4 value-based frameworks from ASCO, ICER, NCCN, and the DrugAbacus for the measurement of treatment value and discussed their application in practice, strengths and weaknesses, and opportunities for pharmacists to shape better models in the future. Value tools increase awareness about overall costs and benefits of drug treatments to health systems and society, identify gaps in research, and empower patients and physicians. By providing a threshold or benchmark price relative to value, value-based frameworks can influence drug pricing, improve access to high-value treatment, advance patient-centered care, and enable robust decision-making.

As value-based frameworks continue to evolve, opportunities exist in the use of real-world evidence to identify subpopulations that may benefit from treatment, as well as to introduce new efficacy and outcome measures in future clinical trials. In addition, critical to the optimization of value-based tools will be incorporation of the total costs of care in cost-effectiveness and price analyses and alignment of the incentives of all stakeholders for a potential consolidation of value-based assessments.

Collaboration across multiple stakeholders will be necessary to increase the adoption of value-based frameworks within health systems, achieve drug pricing
aligned with a treatment value, and improve access to high-priced treatments. Increased involvement of pharmacists, patients, patient advocacy organizations, industry, employers, technology vendors, nurses, social workers, and other stakeholders will be critical to meet established quality measures.

Quality Measures in Oncology

The attainment of quality metrics ensures high-quality cancer care and motivates behavioral and practice changes within the oncology community.

The IOM defines healthcare quality within 6 domains—safe (avoiding harm), effective (treatments with proved benefit), patient-centered (respectful of patient preferences), timely (reduces wait for patients and providers), efficient (avoids waste of time, equipment), and equitable (equal irrespective of gender, ethnicity, social status) care.24

Performance measures by the National Quality Forum are defined across quality metrics, resource use and cost, value, and efficiency. Quality is measured across structures and processes of care (ie, appropriate diagnoses and tests) and overall outcomes of care. Intermediate and long-term healthcare outcomes include overall survival and reduced complications, and PROs include patient satisfaction with care and enhanced QOL.25

In addition, ASCO’s and other organizations’ contributions to the Choosing Wisely campaign highlight metrics that can lead to increased costs, such as inappropriate use of medical services and tests and overall outcomes of care. Intermediate and long-term healthcare outcomes include overall survival and reduced complications, and PROs include patient satisfaction with care and enhanced QOL.25

Table 2  Comparison of Value Frameworks

<table>
<thead>
<tr>
<th>ASCO Value Framework</th>
<th>NCCN Evidence Blocks</th>
<th>MSKCC DrugAbacus</th>
<th>ICER Value Assessment Framework</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target stakeholder or audience</td>
<td>Physicians Patients</td>
<td>Physicians Patients</td>
<td>Physicians Policymakers</td>
</tr>
<tr>
<td>Sources of evidence</td>
<td>1 RCT</td>
<td>Published data Panel clinical experience Case reports</td>
<td>1 trial FDA package insert at time of launch</td>
</tr>
<tr>
<td>Inputs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary end points</td>
<td>Dependent on indication</td>
<td>Advanced disease, hazard ratio, OS, progression-free survival, response rate</td>
<td>Improvement in OS or surrogate</td>
</tr>
<tr>
<td>Secondary end points</td>
<td>Treatment-free interval Tail of the curve Quality of life and palliation</td>
<td>Unmet need Disease burden/incidence Novelty Research cost</td>
<td>Disease burden/incidence Quality of life and palliation</td>
</tr>
<tr>
<td>Patient preference</td>
<td>No</td>
<td>Yes User-weighted preferences</td>
<td>Yes</td>
</tr>
<tr>
<td>Cost</td>
<td>Price per month or course of treatment Does not include other medical costs Does not include costs to healthcare system</td>
<td>Relative affordability Total treatment cost (cost of drugs, infusions, supportive care)</td>
<td>Price per month or course of treatment User-generated value assessment compared with reported Medicare payment limit</td>
</tr>
<tr>
<td>Cost to patient</td>
<td>Reported</td>
<td>Not reported</td>
<td>Not reported</td>
</tr>
<tr>
<td>Outputs</td>
<td>Net Health Benefit score</td>
<td>Score (1-5) for each measure displayed as evidence blocks</td>
<td>DrugAbacus price</td>
</tr>
</tbody>
</table>


ASCO indicates American Society of Clinical Oncology; FDA, US Food and Drug Administration; ICER, Institute for Clinical and Economic Review; MSKCC, Memorial Sloan Kettering Cancer Center; NCCN, National Comprehensive Cancer Network; OS, overall survival; RCT, randomized controlled trial.
specific MIPS quality measures increasingly focus on patient-reported experience and satisfaction in care, processes to ensure that chemotherapy-related complications are managed in a timely fashion, clinical interventions for pain, advance planning for end-of-life care, and patient outcomes. Forum participants discussed imminent MIPS measures on the horizon, such as chemotherapy in the last 14 days of life, hospice length of stay within 30 days of death, and cancer-specific mortality rate.

The Quality Oncology Practice Initiative (QOPI) certification, a quality program endorsed by ASCO, is issued to practices that perform at the highest levels of competence in patient care delivery. This program counts as a MIPS quality improvement measure. QOPI standards consist of creating an environment that ensures excellent patient care and safety. Clinical performance is measured across processes of care delivery encompassing general policy; chemotherapy handling and administration; adherence to treatment; follow-up on toxicity and complications; treatment planning, staffing, and patient education.

Barriers to adoption of quality metrics in oncology were identified. The burden of data collection leads to lack of visibility of key clinical and social data that may affect performance scores. The cost of cancer care is subject to considerable variability of cancer subtypes, mutations, patient comorbidities, treatment history, and financial toxicity—all necessitating reliable population health data to inform value-based programs.

Social determinants of health, such as a patient’s socioeconomic status, health literacy, food security, and access to transportation, affect treatment outcomes and must be adjusted for in quality measurements. For example, patients with low socioeconomic status have reduced ability to engage in self-care and prevention of side effects, and a higher risk for hospitalizations and healthcare utilization.

Similarly, cancer stage information and risk levels are missing from Medicare claims data, leading to unstable bundles with high variability in patient risk levels. Essential diagnostics data to inform physicians are scattered in patient charts, locked in PDF documents within the EHR system, and are not disseminated between care centers such as urgent care, clinics, infusion centers, and palliative centers.

Learning health systems that can quickly analyze data are urgently needed to answer clinical questions, modify toxic chemotherapy regimens, and be useful in point-of-care clinical decision-making. Vendors must be involved in discussion of value measurements and should direct their efforts toward designing enhanced, user-friendly EHR technology, to facilitate meaningful accessibility and real-time data sharing across healthcare providers, institutions, and payers.

Discussion

Ample opportunities exist for pharmacists within the multidisciplinary care team to fully engage with physicians, patients, and payers to ensure the delivery of high-value oncology care. Clinical and health system pharmacists must be involved in direct patient care, empower physicians in the use of clinical pathways, assist in end-of-life care, suggest clinical study design, and enroll patients in clinical trials. Increased pharmacist involvement in clinic activities, such as assessing laboratory tests, ordering tests, and managing patients, increases efficiency and helps to manage patient volume.

The HOPA/AMCP forum panel members representing health systems discussed examples of successful collaboration between health systems and payers enabling data exchange and risk stratification of patients, and subsequent reorganization of pharmacy resources from volume to value-based activities. They described how pharmacist teams within their organizations are significantly contributing to chemotherapy pathways tailored to patient characteristics and working on categorization of cost-effective regimens into appropriate patient bundles.

Critical to cementing the role of pharmacists as providers of value within their institutions is the ability to measure outcomes of value-based activities by evaluating changes in adherence rates, number of emergency department visits and readmissions, and overall cost-savings. Armed with these data, pharmacists can demonstrate their own value and approach their respective organizations with proposals of cost-effective, practical processes and additions of infrastructure that can support pharmacy-specific initiatives in the delivery of high-value cancer care.

Conclusion

The shift to value-based reimbursement has transformed the delivery of oncology care within hospitals and physician practices. Strong collaborations among stakeholders within the healthcare system, such as hospitals, public and private payers, professional organizations, and data analytics, will be necessary to reach consensus on value frameworks, standardize delivery of care across populations, and complete real-time data analytics to build a model of precision delivery to every patient. The 2019 HOPA/AMCP forum provided a venue to discuss the value-based care model. The role of the pharmacist within this model has not been defined. As pharmacy leaders, we must start the conversation within our practices that will further shape our
roles and address many unanswered questions.

This forum discussion serves as a call to action to health system pharmacists to engage in the continuum of cancer care as an essential provider of value through the implementation of quality processes that inform safe and effective treatment choices, enhance patient satisfaction with care, and reduce unnecessary healthcare costs. Participants proposed value-based interventions and discussed barriers to the delivery of cost-effective oncology care.

At the forum, representatives of the HOPA and AMCP organizations affirmed their shared commitment to advancing patient care and improving clinical outcomes in oncology. Recommendations gathered at the forum for pharmacists to engage in the practice of value-based oncology care will be shared with patient groups, providers, and policymakers and will be used to move this conversation forward.

References