Academy of Oncology Nurse & Patient Navigators Announces Standardized Navigation Metrics

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Executive Summary

There is a gap in the literature regarding the key areas that measure the success of navigation programs—patient experience (PE), clinical outcomes (CO), and business performance or return on investment (ROI) metrics—that will demonstrate the sustainability of navigation programs. In the report published by the Institute of Medicine (IOM), *Ensuring Quality Cancer Care*, the recommendation is that quality care is measured using a core set of metrics: "To ensure the rapid translation of research into practice, a mechanism is needed to quickly identify the results of research with quality of care implications and ensure that it is applied in monitoring quality."¹

The task force developed standardized metrics that focus on the AONN+ certification domains for navigation, concentrating on patient experience, clinical outcome, and return on investment.

The objective of this initiative was to develop standard metrics in the areas of PE, CO, and ROI using the Academy of Oncology Nurse & Patient Navigators (AONN+) DOMAINS for certification (Professional Roles and Responsibilities, Patient Advocacy, Psychosocial Support Services Assessment, Care Coordination, Community Outreach and Prevention, Operations Management, Survivorship/End of Life, and Research and Quality Performance Improvement). These domains contain a comprehensive list of all areas in which navigators practice to provide quality patient care and financial stability for their organizations.

The project team leaders developed a proposal that was submitted to the AONN+ Executive Leadership for approval and support to fund this initiative. The AONN+ leadership accepted the proposal and organized a project team of content experts. AONN+ formed this team to create standardized metrics in the 3 identified areas focused on PE, CO, and ROI using the AONN+ domains. The project team leaders held a WebEx to roll out the project, timelines, and expectations of each team member and outlined the preparation required prior to retreat. Each member completed a literature review on the assigned domain for which they had validated expertise. Each member used measure development criteria ensuring feasibility, meaningfulness, and breadth of metric to guarantee reliability and validity. AONN+ held a 1-day retreat with the task force members to review metrics for each domain, literature support, and benchmarks, and finalized a set of standardized metrics. Using the Likert scale, the team ranked metrics to determine which met rigorous review and were acknowledged as high validity that all navigation programs can utilize.

The task force developed standardized metrics that focus on the AONN+ certification domains for navigation, concentrating on PE, CO, and ROI. After completion of an extensive literature review and putting each metric through rigorous criteria to ensure the accuracy and soundness of each, 35 metrics were developed. These are baseline metrics all institutions can use regardless of the structure of their navigation program. The task force recognizes that navigation programs are developing at different rates within diverse structural organizations and settings, and that will determine which standardized metrics will be essential to measure outcomes for their specific navigation program. As disease-specific certification evolves, additional evidenced-based disease-specific metrics will need to be developed to dovetail into the standardized navigation metrics.

avigation was formally introduced as part of the continuum of care in oncology by Harold P. Freeman, MD, in 1990 when he created a navigation program to decrease time-to-care disparities in the underserved breast cancer population in Harlem. As far back as the 1990s there was valid proof that navigation plays a significant role in decreasing time to care.²

The Oncology Nursing Society (ONS), the Association of Oncology Social Work (AOSW), and the National Association of Social Workers define navigation as: "Individualized assistance offered to patients, families, and caregivers to help overcome health care system barriers and facilitate timely access to quality health and psychosocial care from pre-diagnosis through all phases of the cancer experience."³ ONS published core competencies for navigators in 2013.⁴ The American Cancer Society (ACS) created its own formal navigation program in 2005,⁵ and the Commission on Cancer (CoC) added patient navigation as a standard in 2015.⁶

The Academy of Oncology Nurse & Patient Navigators (AONN+) is a national organization whose mission is dedicated to improving patient care and quality of life by defining and enhancing and promoting the role of oncology nurse and patient navigators. AONN+ recently established a navigation certification program using the evidence-based domains cited in the **Table**. These domains contain a comprehensive list of all areas in which navigators practice to provide quality patient care and financial stability for their organizations.

We have made significant strides over the past 10 to 15 years in both the development of navigation programs and in proving the efficacy of these programs for our patients as well as the institutions that care for them.⁷ Navigation has been widely accepted by national organizations such as ONS, AOSW, ACS, CoC, and the National Accreditation Program for Breast Centers. One of the IOM's key initiatives is for Care Coordination to improve the quality of care, to better utilize resources, to decrease overall cost of care, and to address the need for professional societies to prioritize, fund, and develop meaningful quality measures.⁸

Problem Definition

Several articles and research projects have discussed various measures that can be used to capture the impact of navigation; most of these discuss time-to-care metrics,

Table	AONN+ Navigation General Certification Domains		
Community Outreach and Prevention			
Coordination of Care/Care Transitions			
Patient Advocacy/Patient Empowerment			
Psychosocial Support Services/Assessment			
Survivorship/End of Life			
Professional Roles and Responsibilities			
Operations Management/Organizational Development/ Healthcare Economics			
Resear	Research/Quality/Performance Improvement		

patient satisfaction, and measures that assist with care for the underserved, but few discuss the broad range of measures that validate the role of navigation in all areas of oncology patient care.⁹ It is well-known that each navigation program is developed to meet the needs of the patients and the institution where the program is being created, and that indicators to measure the success of that program need to be tailored to the goal of the navigation program. Metrics for evaluation of patient navigation must be conceptualized to reflect those aspects of diagnosis and treatment in which navigators can have an impact for the specific program being evaluated.¹⁰

That being said, there is a void in the literature regarding the key areas that measure the success of navigation programs: PE, CO, and business performance or ROI metrics that will prove the sustainability of navigation programs.

High-Level Solution

The goal of the Standardized Navigation Metrics Task Force, under the umbrella of the AONN+ Evidence into Practice Committee, was to provide a list of standard metrics that can be used by all organizations as a baseline to prove the efficacy and sustainability of their programs. That does not mean it will be an all-inclusive list, because there are no cookie-cutter navigation programs, and each program will have additional metrics to capture regarding their own program. These standard metrics will provide a starting point and baseline metrics for all navigation programs that are evidence-based through literature support, patient preference, and clinical practice using the AONN+ domains of certification as reference points.

Solution Details

At the AONN+ annual conference in Las Vegas on November 17, 2016, it was announced that the AONN+ Evidence into Practice Metrics Subcommittee had created 35 evidenced-based national navigation metrics that all programs would be able to utilize in their navigation model. After an extensive literature search that took several months to complete, the team utilized the 8 AONN+ certification domains as well as the categories of PE, CO, and ROI. The AONN+ navigation certification domains were utilized because AONN+ has been recognized by the CoC to be the content experts for oncology navigation.

Prior to this announcement, cancer programs had a difficult time demonstrating the success of their oncology navigation programs on a national level; cancer programs have not been able to compare their programs because each program has created its own metrics or have none at all.

"What I've learned at the AONN+ conference and what I found valuable is the standardization of the metrics for navigation because I've struggled often with trying to figure out how do I justify my existence for our company, and that's going to give me the tools to do it."

> —Gina Kuenstler, BSN, RN, OCN Austin Cancer Center Austin, TX

Business Benefits

Data and metrics reporting are best suited to communicate patient navigator efficacy. The challenge was that whereas navigation programs have existed for decades, standardized national metrics to measure program success have been missing. After a comprehensive literature search on the topic of navigation metrics, we identified 3 main categories of metrics:

- 1. Business performance/ROI
- 2. Clinical outcomes
- 3. Patient experience.

The "patient experience" is increasingly emerging as a more enhanced method for measuring navigation success. The 2013 Consumer Assessment of Healthcare Providers and Systems cancer survey identified that patients' expectations were exceeded when they felt their healthcare provider actively listened and incorporated their personal psychosocial goals into the treatment plan. The results of this survey also confirm the importance of ensuring that navigators and support staffs know how to provide the appropriate level of education. Asking about their experience(s) and encouraging active participation in their treatment discussions increased the level of understanding and satisfaction of the patients and their family.^{11,12}

CO metrics are much more familiar to healthcare providers as clinicians have always measured success through patient clinical outcomes. Some of these metrics include distress screening, pathway compliance, and timeliness of care.

Business performance metrics, unlike PE or CO, are much less familiar for navigation programs. Yet, this category is becoming increasingly important as cancer program administrators question the ROI for navigation services.¹²

Navigation programs have been incorporated into cancer programs over the past 10 to 20 years to support the IOM report, *Delivering High-Quality Cancer Care: Charting a New Course for a System in Crisis*, and the new CoC Standards, Chapter 3: Continuum of Care.^{8,13} It is essential that administrators and key stakeholders measure their ROIs for the navigation programs as well as measure PE and CO. Administrators need to report metrics and outcomes to ensure sustainability of their navigation programs.

Summary

With the development of the 35 national evidence-based navigation metrics collected from over 300 source documents, all navigation programs—no matter the model of navigation chosen—can utilize the same metrics to measure success and sustainability.

Link to AONN+ Website - Source Document

The source document provides comprehensive review of the metrics: definitions, criteria (ROI, PE, CO), ranking that designates the value and the strength of the metric using a Likert scale of 1 to 10 (1 = low, 10 = high), identification of metric links to multiple domains, and the evidenced-based literature that supports the metrics. The source document can be accessed at www.aonnon line.org/metrics-source-document/.

Call to Action

The challenge was that while navigation programs had existed for decades, standardized national metrics to measure program success had yet to be created and standardized. Now that the metrics have been formalized, AONN+ strongly encourages each navigation program *Continued on page* 66

Metrics per Domain

Community Outreach, Prevention			
Metric	Definition	Patient Experience (PE), Clinical Outcomes (CO), Return on Investment (ROI)	
Cancer Screening* Follow-up to Diagnostic Workup	Number of navigated patients per quarter with abnormal screening referred for follow-up diag- nostic workup	PE, CO, ROI	
Cancer Screening	Number of participants at cancer screening event and/or percentage increase of cancer screening	PE, CO	
Completion of Diagnostic Workup	Number of navigated individuals with abnormal screening that completed diagnostic workup per month/quarter	CO, ROI	
Disparate Population [†] at Screening Event	Number of individuals per quarter at community screening events by the Office of Management and Budget standards	PE, CO	

*Cancer screening definition: Screening tests can help find cancer at an early stage before symptoms will appear. When abnormal tissue or cancer is found early, it may be easier to treat or cure. By the time symptoms appear, the cancer may have grown and spread. This can make cancer harder to treat or cure.

[†]Disparate population definition: The National Institute on Minority Health and Health Disparities definition is difference in the incidence, prevalence, mortality, and burden of disease and other adverse health conditions that exist among specific populations in the United States (racial and ethnic minorities, low socioeconomic status).

Care Coordination/Care Transitions	Definition	Patient Experience (PE), Clinical Outcomes (CO), Return on Investment (ROI)
Treatment Compliance	Percentage of navigated patients who adhere to in- stitutional treatment pathways per quarter	ROI, CO
Barriers to Care*	Number and list of specific barriers to care identified by navigator per month	PE, CO
Interventions [†]	Number of specific referrals/interventions offered to navigated patients per month	PE, CO
Clinical Trial Education	Number of patients educated about clinical trials by the navigator per month	PE, CO
Clinical Trial Referrals	Number of navigated patients per month referred to clinical trial department	PE, CO
Patient Education	Number of patient education encounters by naviga- tor per month	PE, CO, ROI
Diagnosis to Initial Treatment	Number of business days from diagnosis (date pa- thology resulted) to initial treatment modality (date of 1st treatment)	PE, CO
Diagnosis to 1st Oncology Consult	Number of business days from diagnosis (date pa- thology resulted) to initial oncology consult (date of 1st appointment)	PE, CO

*Barriers to care definition: Obstacles that prevent a cancer patient from accessing care, services, resources, and/or support. [†]Intervention definition: The act of intervening, interfering, or interceding with the intent of modifying the outcome.

Patient Empowerment/Patient Advocacy		
Metric	Definition	Patient Experience (PE), Clinical Outcomes (CO), Return on Investment (ROI)
Patient Goals	Percentage of analytic cases per month that patient goals identified and discussed with the navigator	PE, CO, ROI
Caregiver Support	Number of caregiver needs/preferences dis- cussed with navigator per month	СО
Identifying Learning Style* Preference	Number of navigated patients per month who preferred learning style was discussed during the intake process	PE, CO
 *Learning styles: Visual (spatial): You prefer using pictu Aural (auditory-musical): You prefer u Verbal (linguistic): You prefer using w Physical (kinesthetic): You prefer usin Logical (mathematical): You prefer usin 	sing sound and music ords, both in speech and writing g your body, hands, and sense of touch	

hematical): You prefer using logic, reasoning, and systems • Social (interpersonal): You prefer learning in groups with other people

• Solitary (intrapersonal): You prefer working alone and use self-study

Psychosocial Support, Assessment			
Metric	Definition	Patient Experience (PE), Clinical Outcomes (CO), Return on Investment (ROI)	
Psychosocial Distress Screening	Number of navigated patients per month who received psychosocial distress screening at a pivotal medical visit* with a validated tool [†]	PE, CO	
Social Support Referrals	Number of navigated patients referred to support networks per month	PE, CO, ROI	
	l of high distress for the patient when psychosocial ples: FACT, NCCN Psychosocial Distress Screenir		

to identify key metrics from the 35 standardized metrics that will be valuable for their organization to measure and report outcomes. It is imperative for navigation to continue to build a strong sustainable business case and demonstrate that these metrics need to be measured. collected, and reported.

AONN+ will develop a metrics repository for programs to report outcomes, share lessons learned, and share what performance improvement initiatives have been implemented to enhance and improve navigation processes. This provides a vehicle to share data nationally and begin to develop standardized reporting. Publishing the findings to further build on evidence for the vakue of navigation is vital to ensuring navigation program sustainability. The outcome metrics will be able to demonstrate with actual measurable data that navigation can impact on ROI, PE, and CO.

Please contact Tricia Strusowski, Elaine Sein, or Danelle Johnston with any questions, at metricstask force@aonnonline.org.

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Survivorship and End of Life Patient Experience (PE), Clinical Outcomes (CO), Definition Return on Investment (ROI) Metric Survivorship Care Plan Number of navigated patients with curative PE, CO intent per month who received a survivorship care plan and treatment summary Transition* from Treatment to Percentage of navigated analytic cases per PE, CO Survivorship month transitioned from completed cancer treatment to survivorship Referrals to Support Services at the Number of navigated patients per month re-PE, CO, ROI Survivorship Visit ferred to appropriate support service at the survivorship visit Palliative Care Referral Number of navigated patients per month re-PE, CO, ROI ferred for palliative care services

*Define care transitions: The movement patients make between healthcare practitioners and settings as their condition and care needs change during the course of chronic or acute illness.

Professional Roles and Responsibilities			
Metric	Definition	Patient Experience (PE), Clinical Outcomes (CO), Return on Investment (ROI)	
Navigation Knowledge at time of Orientation	Percentage of new hires who has completed institutionally developed navigator core com- petencies	CO	
Oncology Navigator Annual Core Competencies Review	Percentage of staff that have completed insti- tutionally developed navigator core competen- cies annually to validate core knowledge of oncology navigation	CO	

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Operations Management, Organizational Development, Health Economics		
Metric	Definition	Patient Experience (PE), Clinical Outcomes (CO), Return on Investment (ROI)
30-, 60-, 90-Day Readmission Rate	Number of navigated patients readmitted to the hospital at 30, 60, 90 days. Report quarterly	ROI
Navigation Operational Budget*	Monthly operating expenses by line item	ROI
Navigation Caseload	Number of new cases, [†] open cases, [‡] and closed cases [§] navigated per month	ROI
Referrals to Revenue-Generating Services	Number of referrals to revenue-generating ser- vices per month by navigator	ROI
No-show Rate	Number of navigated patients who do not com- plete a scheduled appointment per month	ROI
Patient Retention Through Navigation	Number of analytic cases per month or quarter that remained in your institution due to navigation	ROI
Emergency Department Utilization	Number of navigated patient visits to emergency department per month	ROI
Emergency Admissions per Number of Chemotherapy Patients	Number of navigated patient visits per 1000 chemotherapy patients who had an emergency department visit per month	ROI

*Operational budget definition: The combination of known expenses, expected future costs, and forecasted income over the course of a year.

[†]New cases definition: New patient case referred to the navigation program per month.

[‡]Open cases definition: Patient case that remains open per month.

[§]Closed cases definition: Number of patient cases closed per month. Formal closing of a patient case from the navigation program.

Research, Quality, Performance Improvement		
Metric	Definition	Patient Experience (PE), Clinical Outcomes (CO), Return on Investment (ROI)
Patient Experience/Satisfaction with Care	Patient experience or patient satisfaction survey results per month (utilize institutional-specific navigation tool with internal benchmark)	PE
Navigation Program Validation Based on Community Needs Assessment	Monitor one major goal of current navigation program annually as defined by cancer committee Example: Population Served	PE, CO, ROI
Patient Transitions* from Point of Entry	Percentage of navigated analytic cases per month transitioned from institutional point of entry to initial treatment modality [†]	PE, CO
Diagnostic Workup to Diagnosis	Number of business days from date of abnormal finding [‡] to pathology report for navigated patients	CO

*Care transitions definition: The movement patients make between healthcare practitioners and settings as their condition and care needs change during the course of chronic or acute illness.

[†]Modality definition: Chemotherapy, surgery, radiation therapy, endocrine therapy, and biotherapy.

*Abnormal finding definition: Number of business days from abnormal finding diagnostic workup (date of workup) to diagnosis (date pathology resulted).