



Optimal Care Coordination Model for Lung Cancer Patients on Medicaid

Bibliography
JUNE 2016

Lung Cancer: Experiences of Medicaid Beneficiaries

Review of the Professional Literature



OUTCOME DISPARITIES

Racial, Economic, and Geographic Disparities

Jemal A, Siegel R, Ward E, et al. Cancer Statistics, 2007. *CA: A Cancer Journal for Clinicians*. Jan/Feb 2007;57(1):43-66.

Singh GK, Williams SD, Siahpush M, et al. Socioeconomic, Rural-Urban, and Racial Inequalities in US Cancer Mortality: Part I-All Cancers and Lung Cancer and Part II-Colorectal, Prostate, Breast, and Cervical Cancers. *J Cancer Epidemiol*. 2011:107497.

Blackstock AW, Herndon JE, Paskett ED, et al. Similar Outcomes Between African-American and Non-African-American Patients with Extensive-stage Small-cell Lung Carcinoma: Report from the Cancer and Leukemia Group B. *J Clin Oncol*. Jan. 2006;24(3):407-12.

Cancer Survival in Kentucky and Health Insurance Coverage. *Arch Intern Med*. 2003;163:2135-44.

Shi R, Diaz R, Shi Z, et al. The Effect of Payer Status on Survival of Patients with Stage I/II Non-small Cell Lung Cancer: NCDB 1998-2011. *Anticancer Res*. Jan. 2016;36(1):319-26.

Koroukian SM, Bakaki PM, Raghavan D. Survival Disparities by Medicaid Status: An Analysis of 8 Cancers. *Cancer*. 2012;118:4271-9.

Underlying Causes

Woods LM, Rachet B, Coleman MP. Origins of Socio-Economic Inequalities in Cancer Survival: A Review. *Ann Oncol*. 2006;17:5-19.

Ward E, Halpern M, Schrag N, et al. Association of Insurance with Cancer Care Utilization and Outcomes. *CA: A Cancer Journal for Clinicians*. 2008;58:9-31.

Niu X, Roche LM, Pawlish KS, et al. Cancer Survival Disparities by Health Insurance Status. *Cancer Med*. June 2013;2(3):403-11

Slatore CG, Au DH, Gould MK, et al. An Official American Thoracic Society Systematic Review: Insurance Status and Disparities in Lung Cancer Practices and Outcomes. *Am J Respir Crit Care Med*. Nov. 2010;182(9):1195-205.

Mulligan CR, Meram AD, Proctor CD, et al. Unlimited Access to Care: Effect on Racial Disparity and Prognostic Factors in Lung Cancer. *Cancer Epidemiol, Biomarkers, Prev*. 2006;15:25-31.

Lathan CS, Waldman LT, Browning E, et al. Perspectives of African-Americans on Lung Cancer: A Qualitative Analysis. *Oncologist*. April 2015;20(4):393-9.

Krieger N, Chen JT, Waterman PD, et al. Painting a Truer Picture of US Socioeconomic and Racial/Ethnic Health Inequalities: The Public Health Disparities Geocoding Project. *Am J Public Health*. 2005;95:312-23.

Gomez SL, Glaser SL, McClure LA, et al. The California Neighborhoods Data System: A New Resource for Examining the Impact of Neighborhood Characteristics on Cancer Incidence and Outcomes in Populations. *Cancer Causes & Control*. 2011;22:631-47.

Lathan CS. Lung Cancer Care: The Impact of Facilities and Area Measures. *Translational Lung Cancer Res*. Aug. 2015;4(4): 385-91.

TREATMENT VARIATION

Evidence of Variation

Shavers VL, Brown ML. Racial and Ethnic Disparities in the Receipt of Cancer Treatment. *J Natl Cancer Inst.* Mar. 2002;94(5):334-57.

Forrest LF, Adams J, Wareham H. Socioeconomic Inequalities in Lung Cancer Treatment: Systematic Review and Meta-analysis. *PLoS Med.* 2013;10(2):e1001376.

Potosky AL, Saxman S, Wallace RB, et al. Population Variations in the Initial Treatment of Non-Small-Cell Lung Cancer. *J Clin Oncol.* 2004; 22:3261-8.

Variation by Site of Care

Onega T, Duell EJ, Shi X, et al. Influence of NCI Cancer Center Attendance on Mortality in Lung, Breast, Colorectal, and Prostate Cancer Patients. *Med Care Res and Review.* 2009; 66:542-60.

Bradley CJ, Clement JP, Lin C. Absence of Cancer Diagnosis and Treatment in Elderly Medicaid-Insured Nursing Home Residents. *J Natl Cancer Inst.* Jan. 2008;100(1):21-31.

Richardson LC, Tangka FK. Ambulatory Care for Cancer in the United States: Results from Two National Surveys Comparing Visits to Physicians' Offices and Hospital Outpatient Departments. *J Natl Med Assoc.* Dec. 2007; 99(12):1350-8.

Virgo KS, Little AG, Fedewa SA, et al. Safety-Net Burden Hospitals and Likelihood of Curative-Intent Surgery for Non-small Cell Lung Cancer. *J Am Coll Surg.* Nov. 2011; 213(5):633-43.

Diagnosis and Treatment Delays

Halpern MT, Holden DJ. Disparities in Timeliness of Care for U.S. Medicare Patients Diagnosed with Cancer. *Curr Oncol.* Dec. 2012;19(6):e404-13.

Halpern MT, Ward EM, Pavluck AL, et al. Association of Insurance Status and Ethnicity with Cancer Stage at Diagnosis for 12 Cancer Sites: A Retrospective Analysis. *Lancet Oncol.* March 2008;9(3):222-31.

Olsson JK, Schultz EM, Gould MK. Timeliness of Care in Patients with Lung Cancer: A Systematic Review. *Thorax.* Sept. 2009;64(9):749-56.

Ward EM, Fedewa SA, Cokkinides V, et al. The Association of Insurance and Stage at Diagnosis Among Patients Aged 55 to 74 Years in the National Cancer Database. *Cancer.* Nov./Dec. 2010; 16(6):614-21.

Faris N, Yu X, Sareen S, et al. Preoperative Evaluation of Lung Cancer in a Community Health Care Setting. *Ann Thorac Surg.* Aug. 2015;100(2):394-400.

THE ROLE OF SURGERY

Underutilization

Groth SS, Al-Refaie WB, Zhong W, et al. Effect of Insurance Status on the Surgical Treatment of Early-Stage Non-Small Cell Lung Cancer. *Ann Thorac Surg.* Apr. 2013;95(4):1221-6.

Bach PB, Cramer LD, Warren JL, et al. Racial Differences in the Treatment of Early-Stage Lung Cancer. *New Engl J Med.* Oct. 1999;341(16):1198-205.

Esnaola NF, Gebregziabher M, Knott K, et al. Underuse of Surgical Resection for Localized, Non-Small Cell Lung Cancer Among Whites and African-Americans in South Carolina. *Ann Thorac Surg.* July 2008;86(1):220-7.

McCann J, Artinian V, Duhaime L, et al. Evaluation of the Causes for Racial Disparity in Surgical Treatment of Early Stage Lung Cancer. *Chest.* 2005;Nov. 128(5):3440-6.

Bradley CJ, Dahman B, Given CW. Treatment and Survival Differences in Older Medicare Patients with Lung Cancer as Compared with Those Who Are Dually Eligible for Medicare and Medicaid. *J Clin Oncol.* Nov. 2008;26(31):5067-73.

High-Volume Hospitals and Specialist Surgeons: Impact and Access

von Meyenfeldt EM, Gooiker GA, van Gijn W. The Relationship Between Volume or Surgeon Specialty and Outcome in the Surgical Treatment of Lung Cancer: A Systematic Review and Meta-Analysis. *J Thorac Oncol.* 2012;7:1170-8.

Liu JH, Zingmond DS, McGory ML, et al. Disparities in the Utilization of High-Volume Hospitals for Complex Surgery. *JAMA.* Oct. 25, 2006;296(16):1973-80.

Neighbors CJ, Rogers ML, Shenassa ED, et al. Ethnic/Racial Disparities in Hospital Procedure Volume for Lung Resection for Lung Cancer. *Med Care.* July 2007;45(7):655-63.

Bradley CJ, Dahman B, Given CW. Inadequate Access to Surgeons: Reason for Disparate Cancer Care? *Med Care.* 2009;47:758-64.

Goodney PP, Lucas FL, Stukel TA. Surgeon Specialty and Operative Mortality with Lung Resection. *Ann Surg.* 2005;241:179-84

Underlying Causes

Cykert S, Phifer N. Surgical Decisions for Early Stage, Non-small Cell Lung Cancer: Which Racially Sensitive Perceptions of Cancer Are Likely to Explain Racial Variation in Surgery? *Med Decis Making.* 2003;23:167-76.

Margolis ML, Christie JD, Silvestri GA, et al. Racial Differences Pertaining to a Belief about Lung Cancer Surgery: Results of a Multicenter Survey. *Ann Intern Med.* Oct. 2003;139(7):558-63.

Gansler T, Henley SJ, Stein K, et al. Sociodemographic Determinants of Cancer Treatment Health Literacy. *Cancer.* Aug. 1, 2005;104(3):653-60.

CARE COORDINATION

Impact on Timeliness of Care

Horvath LE, Yordan E, Malhotra D, et al. Multidisciplinary Care in the Oncology Setting: Historical Perspective and Data from Lung and Gynecology Multidisciplinary Clinics. *J Oncol Pract*. November 2010;6(6):e21-e26.

Stevenson MM, Irwin T, Lowry T, et al. Development of a Virtual Multidisciplinary Lung Cancer Tumor Board in a Community Setting. *J Oncol Pract*. May 2013;May 9(3):e77-80.

Alsamarai S, Yao X, Cain HC, et al. The Effect of a Lung Cancer Care Coordination Program on Timeliness of Care. *Clin Lung Cancer*. Sept. 2013;14(5):527-34.

Impact on Use of Evidence-Based Guidelines

Taylor C, Munro AJ, Glynne-Jones R, et al. Multidisciplinary Team Working in Cancer: What Is the Evidence? *BMJ*. March 23, 2010.

Impact on Patient Experience

Kedia SK, Ward KD, Digney SA, et al. 'One-Stop Shop': Lung Patients' and Caregivers' Perceptions of Multidisciplinary Care in a Community Health Care Setting. *Transla Lung Cancer Res*. Aug. 2015;4(4):456-64.

Impact on Survival Rates

Coory M, Gkolia P, Yang I, et al. Systematic review of multidisciplinary teams in the management of lung cancer. *Lung Cancer*. 2008;60:14-21

Multidisciplinary Approaches

Friedman EL, Chawla N, Morris PT, et al. Assessing the Development of Multidisciplinary Care: Experience of the National Cancer Institute Community Cancer Centers Program. *J Oncol Pract*. Oct. 21, 2014.

Chapman AE, Swartz K, Schoppe J, et al. Development of a Comprehensive Multidisciplinary Geriatric Oncology Center, The Thomas Jefferson University Experience. *J Geriatric Oncol*. April 2014;5(2):164-70.

Impact of Nurse Care Coordinators and Patient Navigators on Costs and Patient Experiences

Shih Y-CT, Chien C-R, Moguel R, et al. Cost-Effectiveness Analysis of a Capitated Patient Navigation Program for Medicare Beneficiaries with Lung Cancer. *Health Serv Res*. April 2016;51(2).

Wagner EH, Ludman EJ, Aiello Bowles EJ, et al. Nurse Navigators in Early Cancer Care: A Randomized, Controlled Trial. *J Clin Oncol*. Jan. 1, 2014;32(1):12-8.

Agency for Healthcare Research and Quality Innovation Profile, April 2016: Daily Remote Monitoring and As-Needed Nurse Contacts Reduce Unexpected Clinic Visits, Hospitalizations for Chemotherapy Patients.

The Role of and Need for Primary Care in Care Coordination Models

Ko C, Chaudhry S. The Need for a Multidisciplinary Approach to Cancer Care. *J Surg Res.* June 1, 2002;105(1):53-7.

Aubin M, Vezina L, Verreault R, et al. Patient, Primary Care Physician and Specialist Expectations of Primary Care Physician Involvement in Cancer Care. *J Gen Int Med.* Jan. 2012;27(1):8-15.

Tesler Waldman L, Svoboda L, Young BF, et al. A Novel Community-Based Delivery Model to Combat Cancer Disparities. *Healthcare.* Dec. 2013;1(3-4):123-129.

Tesler Waldman L, Bean W, Levine AL, et al. Using FastTrack to Implement an Academic Medical Center and Community Health Center Collaborative for Cancer Care Delivery. *Healthcare.* Dec. 2013; 1(3-4): 130-5.

Plascak JJ, Fisher, JL, Paskett ED. Primary Care Physician Supply, Insurance Type, and Late-Stage Cancer Diagnosis. *Am J Prev Med.* Feb. 2015;Feb 48(2):174-8.

Chubak J, Aiello Bowles EJ, Tuzzio L, et al. Perspectives of Cancer Survivors on the Role of Different Healthcare Providers in an Integrated Delivery System. *J Cancer Survivorship.* June 2014;8(2):229-38.

Ersek JL, Eberth JM, Kane McDonnell K, et al. Knowledge of, Attitudes Toward, and Use of Low-Dose Computed Tomography for Lung Cancer Screening Among Family Physicians. *Cancer.* June 13, 2016.

SUPPORTIVE SERVICES

The Goals and Benefits of Prehabilitation

Silver JK, Baima J. Cancer Prehabilitation. *Am J Phys Med Rehabil.* 2013;92:715–27.

Sekine Y, Chiyo M, Iwata T, et al. Perioperative Rehabilitation and Physiotherapy for Lung Cancer Patients with Chronic Obstructive Pulmonary Disease. *Japanese J Thorac Cardiovasc Surg.* May 2005;53:237–43.

Pehlivan E, Turna A, Gurses A, et al. The Effects of Preoperative Short-Term Intense Physical Therapy in Lung Cancer Patients: A Randomized Controlled Trial. *Ann Thorac Cardiovasc Surg.* 2011; 17:461–8.

Bobbio A, Chetta A, Ampollini L, et al. Preoperative Pulmonary Rehabilitation in Patients Undergoing Lung Resection for Non-Small Cell Lung Cancer. *Eur J Cardiothorac Surg.* 2008; 33:95–8.

Cesario A, Ferri L, Galetta D, et al. Pre-Operative Pulmonary Rehabilitation and Surgery for Lung Cancer. *Lung Cancer.* 2007;57:118–9.

Brunelli A, Pompili C, Berardi R, et al. Performance at Preoperative Stair-Climbing Test Is Associated with Prognosis After Pulmonary Resection in Stage I Non-Small Cell Lung Cancer. *Ann Thorac Surg.* 2012; 93:1796–800.

Smoking Cessation Intervention by Thoracic Surgeons Achieves Above Average Pre- and Postoperative Quit Rates, Agency for Healthcare Research and Quality Innovation Profile, April 2016.

Biopsychosocial Screening: The Need

Adler NE, Page AEK, eds. *Cancer Care for the Whole Patient: Meeting Psychosocial Health Needs.* Institute of Medicine, National Academies Press: 2008.

Tedeschi B. For Cancer Patients, Breakthrough Drugs Are Savings Lives But Wrenching Souls. *Stat.* Nov. 4, 2015.

Loscalzo M, Clark K, Pal S, et al. Role of Biopsychosocial Screening in Cancer Care. *Cancer Journal.* 2013;19:414–20.

Biopsychosocial Screening: Tools

Loscalzo M, Clark K, Dillehunt J, et al. SupportScreen: A Model for Improving Patient Outcomes. *J Natl Compr Cancer Network.* April 2010; 8(4):496–504.

Husain A, Barbera L, Howell D, et al. Advanced Lung Cancer Patients' Experience with Continuity of Care and Supportive Care Needs. *Supp Care in Cancer.* May 2013; 21(5):1351–8.

Pain Management, Palliative Care, and Hospice Care: Variations in Use

Le BH, Mileskin L, Doan K, et al. Acceptability of Early Integration of Palliative Care in Patients with Incurable Lung Cancer. *J Palliative Med.* May 2014;17(5):553–8.

Huskamp HA, Keating NL, Malin JL, et al. Discussions with Physicians About Hospice Among Patients with Metastatic Lung Cancer. *Arch Intern Med.* May 25, 2009;169(10):954–62.

Mack JW, Chen K, Boscoe FP, et al. Underuse of Hospice Care by Medicaid-Insured Patients with Stage IV Lung Cancer in New York and California. *J Clin Oncol*. July 10, 2013; 31(20):2569-79.

Earle CC, Venditti LN, Neumann PJ, et al. Who Gets Chemotherapy for Metastatic Lung Cancer? *Chest*. May 2000;117(5):1239-46.

Pain Management, Palliative Care, and Hospice Care: Patient Experience

The Voice of the Patient: Lung Cancer. U.S. Food and Drug Administration, Dec. 2013.

Mayer DK, Travers D, Wyss A, et al. Why Do Patients with Cancer Visit Emergency Departments? Results of a 2008 Population Study in North Carolina. *J Clin Oncol*. July 1, 2011; 29(19):2683-8.

Epiphaniou E, Shipman C, Harding R, et al. Coordination of End-Of-Life Care for Patients with Lung Cancer and Those with Advanced COPD: Are There Transferable Lessons? A Longitudinal Qualitative Study. *Primary Care Respir J*. March 2014;23(1):46-51.

Pain Management, Palliative Care, and Hospice Care: Evidence of Impact on Quality of Life

Temel JS, Greer JA, Muzikansky A, et al. Early Palliative Care for Patients with Metastatic Non-Small-Cell Lung Cancer. *New Engl J Med*. Aug. 19, 2010;363(8):733-42.

Bakitas M, Lyons K, Hegel M, et al. Effects of A Palliative Care Intervention on Clinical Outcomes in Patients with Advanced Cancer: The Project ENABLE II Randomized Controlled Trial. *J Am Med Assoc*. Aug. 19, 2009;302(7):741-9.

Daly BJ, Douglas SL, Gunzler D, et al. Clinical Trial of a Supportive Care Team for Patients with Advanced Cancer. *J Pain Symptom Manage*. Dec. 2013;46(6):775-84.

Pain Management, Palliative Care, and Hospice Care: Models and Goals

Peppercorn JM, Smith TJ, Helft PR, et al. American Society of Clinical Oncology Statement: Toward Individualized Care for Patients with Advanced Cancer. *J Clin Oncol*. 2011; 29:755-60.

Bakitas M, Lyons K, Hegel M, et al. Project ENABLE II Randomized Controlled Trial to Improve Palliative Care for Rural Patients with Advanced Cancer: Baseline Findings, Methodological Challenges, and Solutions. *Palliative Supportive Care*. 2009;7(1):75-86.

Mitchell G, Zhang J, Burrigge L, et al. Case Conferences Between General Practitioners and Specialist Teams to Plan End of Life Care of People with End Stage Heart Failure and Lung Disease: An Exploratory Pilot Study. *BMC Palliative Care*. May 5, 2014;13:24.

Rosenfeld K, Rasmussen J. Palliative Care Management: A Veterans Administration Demonstration Project. *J Palliative Med*. Oct. 2003;6(5):831-9.

Borneman T, Koczywas M, Cristea M, et al. An Interdisciplinary Care Approach for Integration of Palliative Care in Lung Cancer. *Clin Lung Cancer*. 2008;9(6):352-60.

Tokito T, Murakami H, Mori K, et al. Implementation Status and Explanatory Analysis of Early Advance Care Planning for Stage IV Non-Small Cell Lung Cancer Patients. *J Clin Oncol*. March 2015;45(3):261-6.

CLINICAL TRIAL PARTICIPATION

Barriers to Participation

Ford JG, Howerton MW, Lai GY, et al. Barriers to Recruiting Underrepresented Populations to Cancer Clinical Trials: A Systematic Review. *Cancer*. 2008;112: 228-42.

Jimenez R, Zhang B, Joffe S, et al. Clinical Trial Participation Among Ethnic/Racial Minority and Majority Patients with Advanced Cancer: What Factors Most Influence Enrollment? *J Palliative Med*. 2013;16:256-62.

Colon-Otero G, Smallridge RC, Solberg, Jr. LA, et al. Disparities in Participation in Cancer Clinical Trials in the United States: A Symptom of a Healthcare System in Crisis. *Cancer*. 2008; 112:447-54.

Schmotzer GL. Barriers and Facilitators to Participation of Minorities in Clinical Trials. *Ethnicity and Disease*. 2012;22:226-30.

Impact

Shaya FT, Gbarayor CM, Keri Yang H, et al. A Perspective on African-American Participation in Clinical Trials. *Contemp Clin Trials*. 2007;28:213-7.

Kaur JS, Petereit DG. Personalized Medicine: Challenge and Promise. *J Cancer Educ*. 2012 27:S12-7.



Association of Community Cancer Centers

A publication from the ACCC initiative, *Improving Care Coordination: A Model for Lung Cancer Patients on Medicaid* (formerly titled, *Optimal Care Coordination Model for Lung Cancer Patients on Medicaid*). Learn more at acc-cancer.org/care-coordination.

The **Association of Community Cancer Centers (ACCC)** is the leading education and advocacy organization for the cancer care community. Founded in 1974, ACCC is a powerful network of 25,000 multidisciplinary practitioners from 2,100 hospitals and practices nationwide. As advances in cancer screening and diagnosis, treatment options, and care delivery models continue to evolve, so has ACCC, adapting its resources to meet the changing needs of the entire oncology care team. For more information, visit acc-cancer.org or call 301.984.9496. Follow us on Facebook, Twitter, LinkedIn, and Instagram; read our blog, ACCCBuzz; and tune in to our podcast, CANCER BUZZ.

© 2016. Association of Community Cancer Centers. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without written permission.

This publication is a benefit of ACCC membership.

Support provided by Bristol Myers Squibb Foundation.

