

Journal Watch

ジャーナルウォッチ 緩和ケアに関する論文レビュー
(2016年9月～11月刊行分)

対象雑誌: N Engl J Med, Lancet, Lancet Oncol, JAMA, JAMA Intern Med, BMJ, Ann Intern Med, J Clin Oncol, Ann Oncol, Eur J Cancer, Br J Cancer, Cancer

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いわゆる“トップジャーナル”に掲載された緩和ケアに関する最新論文を広く紹介します。

【N Engl J Med. 2016;375(9-21)】

1. 局所前立腺がんサバイバーの患者評価アウトカムの治療間比較と経時推移
Donovan JL, Hamdy FC, Lane JA, Mason M, Metcalfe C, Walsh E, et al. Patient-Reported Outcomes after Monitoring, Surgery, or Radiotherapy for Prostate Cancer. N Engl J Med. 2016;375(15):1425-37. Epub 2016/09/15. Pubmed; PMID 27626365.
2. 分子標的治療薬の心毒性の総説
Moslehi JJ. Cardiovascular Toxic Effects of Targeted Cancer Therapies. N Engl J Med. 2016;375(15):1457-67. Epub 2016/10/13. Pubmed; PMID 27732808.
3. COPD 患者での長時間酸素療法の RCT
Group TL-TOTTR. A Randomized Trial of Long-Term Oxygen for COPD with Moderate Desaturation. N Engl J Med. 2016;375(17):1617-27. Epub 2016/10/27. Pubmed; PMID 27783918.
4. 免疫チェックポイント阻害薬併用療法での劇症型心筋炎 (短報)
Johnson DB, Balko JM, Compton ML, Chalkias S, Gorham J, Xu Y, et al. Fulminant Myocarditis with Combination Immune Checkpoint Blockade. N Engl J Med. 2016;375(18):1749-55. Epub 2016/11/03. Pubmed; PMID 27806233.

【Lancet. 2016;388(10048-10060)】

5. 世界の疾病負担研究 GBD2015:244 死因の予後
Collaborators GMaCoD. Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015. Lancet. 2016;388(10053):1459-544. Epub 2016/10/14. Pubmed; PMID 27733281.
6. 世界の疾病負担研究 GBD2015:310 疾患の罹患、障害生存年数、損失生存年数
Collaborators GDaIaP. Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. Lancet. 2016;388(10053):1545-602. Epub 2016/10/14. Pubmed; PMID 27733282.
7. 世界の疾病負担研究 GBD2015:310 疾患の障害調整生命年、健康寿命
Collaborators GDaH. Global, regional, and national disability-adjusted life-years (DALYs) for 315 diseases and injuries and healthy life expectancy (HALE), 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. Lancet. 2016;388(10053):1603-58. Epub 2016/10/14. Pubmed; PMID 27733283.
8. 世界の疾病負担研究 GBD2015: 死亡と障害調整生命年のリスク因子
Collaborators GRF. Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks, 1990-2015: a systematic analysis for the Global Burden of Disease Study 2015. Lancet. 2016;388(10053):1659-724. Epub 2016/10/14. Pubmed; PMID 27733284.
9. デクスメトミジンの心臓外科手術後高齢者のせん妄予防の RCT
Su X, Meng ZT, Wu XH, Cui F, Li HL, Wang DX, et al. Dexmedetomidine for prevention of delirium in elderly patients after non-cardiac surgery: a randomised, double-blind, placebo-controlled trial. Lancet. 2016;388(10054):1893-902. Epub 2016/10/19. Pubmed; PMID 27542303.

【Lancet Oncol. 2016;17(9-11)】

10. 乳がん・肺がん抗がん治療後 30 日以内の死亡
Wallington M, Saxon EB, Bomb M, Smittenaar R, Wickenden M, McPhail S, et al. 30-day mortality after systemic anticancer treatment for breast and lung cancer in England: a population-based, observational study. Lancet Oncol. 2016;17(9):1203-16. Epub 2016/09/07. Pubmed; PMID 27599138.

11. ホジキンリンパ腫サバイバーのがん関連の倦怠感

Kreissl S, Mueller H, Goergen H, Mayer A, Brillant C, Behringer K, et al. Cancer-related fatigue in patients with and survivors of Hodgkin's lymphoma: a longitudinal study of the German Hodgkin Study Group. *Lancet Oncol.* 2016;17(10):1453-62. Epub 2016/09/11. Pubmed; PMID 27612583.

12. がん患者の静脈血栓塞栓症 VTE 治療・予防のための経口抗凝固剤使用の国際ガイドライン

Farge D, Bounameaux H, Brenner B, Cajfinger F, Debourdeau P, Khorana AA, et al. International clinical practice guidelines including guidance for direct oral anticoagulants in the treatment and prophylaxis of venous thromboembolism in patients with cancer. *Lancet Oncol.* 2016;17(10):e452-e66. Epub 2016/10/14. Pubmed; PMID 27733271.

13. がん臨床試験での患者評価アウトカム PRO と QOL エンドポイントの分析方法に関する EORTC の声明

Bottomley A, Pe M, Sloan J, Basch E, Bonnetain F, Calvert M, et al. Analysing data from patient-reported outcome and quality of life endpoints for cancer clinical trials: a start in setting international standards. *Lancet Oncol.* 2016;17(11):e510-e4. Epub 2016/10/23. Pubmed; PMID 27769798.

【JAMA.2016;316(9-20)】

14. 造血幹細胞移植での早期緩和ケアの RCT

El-Jawahri A, LeBlanc T, VanDusen H, Traeger L, Greer JA, Pirl WF, et al. Effect of Inpatient Palliative Care on Quality of Life 2 Weeks After Hematopoietic Stem Cell Transplantation: A Randomized Clinical Trial. *JAMA.* 2016;316(20):2094-103. Epub 2016/11/29. Pubmed; PMID 27893130.

15. 緩和ケアの患者・家族アウトカムに対する介入効果のメタアナリシス

Kavalieratos D, Corbelli J, Zhang D, Dionne-Odom JN, Ernecoff NC, Hanmer J, et al. Association Between Palliative Care and Patient and Caregiver Outcomes: A Systematic Review and Meta-analysis. *JAMA.* 2016;316(20):2104-14. Epub 2016/11/29. Pubmed; PMID 27893131.

【JAMA Intern Med. 2016;176(9-11)】

16. 手術歴と慢性痛でのオピオイド使用の関連

Sun EC, Darnall BD, Baker LC, Mackey S. Incidence of and Risk Factors for Chronic Opioid Use Among Opioid-Naive Patients in the Postoperative Period. *JAMA Intern Med.* 2016;176(9):1286-93. Epub 2016/07/12. Pubmed; PMID 27400458.

【BMJ. 2016;353(8071-8083)】

なし

【Ann Intern Med. 2016;165(5-10)】

なし

【J Clin Oncol. 2016;34(125-33)】

17. 終末期がん医療の質指標の血液がんへの適用

Odejide OO, Cronin AM, Condrón NB, Fletcher SA, Earle CC, Tulskey JA, et al. Barriers to Quality End-of-Life Care for Patients With Blood Cancers. *J Clin Oncol.* 2016;34(26):3126-32. Epub 2016/07/13. Pubmed; PMID 27400944.

18. がんサバイバーの慢性疼痛治療ガイドライン

Paice JA, Portenoy R, Lacchetti C, Campbell T, Chevillat A, Citron M, et al. Management of Chronic Pain in Survivors of Adult Cancers: American Society of Clinical Oncology Clinical Practice Guideline. *J Clin Oncol.* 2016;34(27):3325-45. Epub 2016/07/28. Pubmed; PMID 27458286.

19. 乳がん治療後の疼痛に対するマインドフルネス認知療法の RCT

Johannsen M, O'Connor M, O'Toole MS, Jensen AB, Hojris I, Zachariae R. Efficacy of Mindfulness-Based Cognitive Therapy on Late Post-Treatment Pain in Women Treated for Primary Breast Cancer: A Randomized Controlled Trial. *J Clin Oncol.* 2016;34(28):3390-9. Epub 2016/06/22. Pubmed; PMID 27325850.

20. がん患者による医療評価と家族の QOL との関連 :CanCORS 研究

Litzelman K, Kent EE, Mollica M, Rowland JH. How Does Caregiver Well-Being Relate to Perceived Quality of Care in Patients With Cancer? Exploring Associations and Pathways. *J Clin Oncol.* 2016;34(29):3554-61. Epub 2016/08/31. Pubmed; PMID 27573657.

21. かかりつけ医の乳がん治療の意思決定への関与と意思決定の満足との関連

Wallner LP, Abrahamse P, Uppal JK, Friese CR, Hamilton AS, Ward KC, et al. Involvement of Primary Care Physicians in the Decision Making and Care of Patients With Breast Cancer. *J Clin Oncol.* 2016;34(33):3969-U58. Pubmed; PMID WOS:000388927700005.

22. 肺がん患者の抑うつ症状の変化と予後への影響

Sullivan DR, Forsberg CW, Ganzini L, Au DH, Gould MK, Provenzale D, et al. Longitudinal Changes in Depression Symptoms and Survival Among Patients With Lung Cancer: A National Cohort Assessment. *J Clin Oncol.* 2016;34(33):3984-91. Epub 2016/12/21. Pubmed; PMID 27996350.

【Ann Oncol. 2016;27(9-11)】**23. 頭頸部・肺がんでの心理的苦痛に対する認知行動療法 stepped care の RCT**

Krebber AM, Jansen F, Witte BI, Cuijpers P, de Bree R, Becker-Commissaris A, et al. Stepped care targeting psychological distress in head and neck cancer and lung cancer patients: a randomized, controlled trial. *Ann Oncol.* 2016;27(9):1754-60. Epub 2016/06/12. Pubmed; PMID 27287209.

24. 早期大腸がんでの化学療法の有無での倦怠感の比較

Vardy JL, Dhillon HM, Pond GR, Renton C, Dodd A, Zhang H, et al. Fatigue in people with localized colorectal cancer who do and do not receive chemotherapy: a longitudinal prospective study. *Ann Oncol.* 2016;27(9):1761-7. Epub 2016/07/23. Pubmed; PMID 27443634.

25. 電子デバイスによる外来がん患者の疼痛マネジメントの効果

Oldenmenger WH, Witkamp FE, Bromberg JE, Jongen JL, Lieveerse PJ, Huygen FJ, et al. To be in pain (or not): a computer enables outpatients to inform their physician. *Ann Oncol.* 2016;27(9):1776-81. Epub 2016/07/23. Pubmed; PMID 27443633.

26. 患者の認識する副作用の見込みと内分泌治療アウトカムの関連

Nestoriuc Y, von Blanckenburg P, Schuricht F, Barsky AJ, Hadji P, Albert US, et al. Is it best to expect the worst? Influence of patients' side-effect expectations on endocrine treatment outcome in a 2-year prospective clinical cohort study. *Ann Oncol.* 2016;27(10):1909-15. Epub 2016/08/24. Pubmed; PMID 27551051.

27. 好中球減少のあるがん患者でのクロスヘキシジン被覆材によるカテーテル由来血流感染予防の RCT

Biehl LM, Huth A, Panse J, Kramer C, Hentrich M, Engelhardt M, et al. A randomized trial on chlorhexidine dressings for the prevention of catheter-related bloodstream infections in neutropenic patients. *Ann Oncol.* 2016;27(10):1916-22. Epub 2016/07/28. Pubmed; PMID 27456299.

28. メチルナルトレキソンの使用と進行がん患者の予後との関連

Janku F, Johnson LK, Karp DD, Atkins JT, Singleton PA, Moss J. Treatment with methylaltrexone is associated with increased survival in patients with advanced cancer. *Ann Oncol.* 2016;27(11):2032-8. Epub 2016/10/30. Pubmed; PMID 27573565.

29. 化学療法による好中球減少の予測モデル

Aapro M, Ludwig H, Bokemeyer C, Gascon P, Boccadoro M, Denhaerynck K, et al. Predictive modeling of the outcomes of chemotherapy-induced (febrile) neutropenia prophylaxis with biosimilar filgrastim (MONITOR-GCSF study). *Ann Oncol.* 2016;27(11):2039-45. Epub 2016/10/30. Pubmed; PMID 27793849.

【Eur J Cancer. 2016;64-66】**30. 上部消化器癌の術前の在宅経腸栄養 HEN の RCT**

Gavazzi C, Colatruglio S, Valoriani F, Mazzaferro V, Sabbatini A, Biffi R, et al. Impact of home enteral nutrition in malnourished patients with upper gastrointestinal cancer: A multicentre randomised clinical trial. *Eur J Cancer.* 2016;64:107-12. Epub 2016/07/09. Pubmed; PMID 27391922.

31. 小児脳腫瘍でのニューロフィードバックの RCT

de Ruiter MA, Oosterlaan J, Schouten-van Meeteren AY, Maurice-Stam H, van Vuurden DG, Gidding C, et al. Neurofeedback ineffective in paediatric brain tumour survivors: Results of a double-blind randomised placebo-controlled trial. *Eur J Cancer.* 2016;64:62-73. Epub 2016/06/28. Pubmed; PMID 27343714.

32. 若年がんでの発熱性好中球減少症のリスク分類

Phillips RS, Bhuller K, Sung L, Ammann RA, Tissing WJ, Lehrnbecher T, et al. Risk stratification in febrile neutropenic episodes in adolescent/young adult patients with cancer. *Eur J Cancer.* 2016;64:101-6. Epub 2016/07/09. Pubmed; PMID 27391921.

33. 小児泌尿器がんサバイバーの長期的なリスク

Bonnesen TG, Winther JF, Asdahl PH, de Fine Licht S, Gudmundsdottir T, Sallfors Holmqvist A, et al. Long-term risk of renal and urinary tract diseases in childhood cancer survivors: A population-based cohort study. *Eur J Cancer.* 2016;64:52-61. Epub 2016/06/22. Pubmed; PMID 27328451.

34. 予後予測の医師の見立てと PPS の比較

Hui D, Park M, Liu D, Paiva CE, Suh SY, Morita T, et al. Clinician prediction of survival versus the Palliative Prog-

- nostic Score: Which approach is more accurate? *Eur J Cancer*. 2016;64:89-95. Epub 2016/07/04. Pubmed; PMID 27372208.
35. 頭頸部がんでの神経障害性疼痛のメサドンとフェンタニルの RCT
Haumann J, Geurts JW, van Kuijk SM, Kremer B, Joosten EA, van den Beuken-van Everdingen MH. Methadone is superior to fentanyl in treating neuropathic pain in patients with head-and-neck cancer. *Eur J Cancer*. 2016;65:121-9. Epub 2016/08/06. Pubmed; PMID 27494037.
36. 進行期膵臓がんでの早期緩和ケアの RCT
Maltoni M, Scarpi E, Dall'Agata M, Zagonel V, Berte R, Ferrari D, et al. Systematic versus on-demand early palliative care: results from a multicentre, randomised clinical trial. *Eur J Cancer*. 2016;65:61-8. Epub 2016/07/30. Pubmed; PMID 27472648.
37. EORTC による第 2 回がんサバイバーシップサミットの報告
Liu L, O'Donnell P, Sullivan R, Katalinic A, Moser L, de Boer A, et al. Cancer in Europe: Death sentence or life sentence? *Eur J Cancer*. 2016;65:150-5. Epub 2016/08/09. Pubmed; PMID 27498140.
38. 乳がんでの shared decision making での医師による暗黙の説得の影響
Engelhardt EG, Pieterse AH, van der Hout A, de Haes HJ, Kroep JR, Quarles van Ufford-Mannesse P, et al. Use of implicit persuasion in decision making about adjuvant cancer treatment: A potential barrier to shared decision making. *Eur J Cancer*. 2016;66:55-66. Epub 2016/08/16. Pubmed; PMID 27525573.
39. 乳がんでの身体活動と予後
Ammitzboll G, Sogaard K, Karlsen RV, Tjonneland A, Johansen C, Frederiksen K, et al. Physical activity and survival in breast cancer. *Eur J Cancer*. 2016;66:67-74. Epub 2016/08/17. Pubmed; PMID 27529756.
40. 進行大腸がんでの PS と EORTC QLQ-C30 による予後予測
Mol L, Ottevanger PB, Koopman M, Punt CJ. The prognostic value of WHO performance status in relation to quality of life in advanced colorectal cancer patients. *Eur J Cancer*. 2016;66:138-43. Epub 2016/08/31. Pubmed; PMID 27573427.
41. 若年子宮がんの予後因子
Klar M, Hasenburg A, Hasanov M, Hilpert F, Meier W, Pfisterer J, et al. Prognostic factors in young ovarian cancer patients: An analysis of four prospective phase III intergroup trials of the AGO Study Group, GINECO and NSGO. *Eur J Cancer*. 2016;66:114-24. Epub 2016/08/27. Pubmed; PMID 27561452.
42. VEGF 阻害薬治療中の急性の心血管イベント
Tlemsani C, Mir O, Psimaras D, Vano YA, Ducreux M, Escudier B, et al. Acute neurovascular events in cancer patients receiving anti-vascular endothelial growth factor agents: Clinical experience in Paris University Hospitals. *Eur J Cancer*. 2016;66:75-82. Epub 2016/08/17. Pubmed; PMID 27529757.
43. 頭頸部がん患者の術前の情報提供の EORTC QLQ-INFO25 による評価
Bozec A, Schultz P, Gal J, Chamorey E, Chateau Y, Dassonville O, et al. Evaluation of the information given to patients undergoing head and neck cancer surgery using the EORTC QLQ-INFO25 questionnaire: A prospective multicentric study. *Eur J Cancer*. 2016;67:73-82. Epub 2016/09/13. Pubmed; PMID 27616438.
44. 好中球・リンパ球 比 NLR による食道がんの予後予測
Chua ML, Tan SH, Kusumawidjaja G, Shwe MT, Cheah SL, Fong KW, et al. Neutrophil-to-lymphocyte ratio as a prognostic marker in locally advanced nasopharyngeal carcinoma: A pooled analysis of two randomised controlled trials. *Eur J Cancer*. 2016;67:119-29. Epub 2016/09/19. Pubmed; PMID 27640138.
45. がん患者での市中感染性呼吸器ウイルス感染:ドイツのガイドライン
von Lilienfeld-Toal M, Berger A, Christopheit M, Hentrich M, Heussel CP, Kalkreuth J, et al. Community acquired respiratory virus infections in cancer patients-Guideline on diagnosis and management by the Infectious Diseases Working Party of the German Society for haematology and Medical Oncology. *Eur J Cancer*. 2016;67:200-12. Epub 2016/09/30. Pubmed; PMID 27681877.
46. 症状評価尺度 MDASI によるがん患者の日常生活機能の評価
Shi Q, Mendoza TR, Wang XS, Cleeland CS. Using a symptom-specific instrument to measure patient-reported daily functioning in patients with cancer. *Eur J Cancer*. 2016;67:83-90. Epub 2016/09/14. Pubmed; PMID 27620946.
47. 閉経後の早期乳がん患者でのホルモン療法の心筋梗塞リスク
Abdel-Qadir H, Amir E, Fischer HD, Fu L, Austin PC, Harvey PJ, et al. The risk of myocardial infarction with aromatase inhibitors relative to tamoxifen in post-menopausal women with early stage breast cancer. *Eur J Cancer*. 2016;68:11-21. Epub 2016/10/04. Pubmed; PMID 27693889.
48. 後悔モデルによる終末期の意思決定の改善
Djulgovic B, Tsalatsanis A, Mhaskar R, Hozo I, Miladinovic B, Tuch H. Eliciting regret improves decision making at the end of life. *Eur J Cancer*. 2016;68:27-37. Epub 2016/10/07. Pubmed; PMID 27710829.

49. 日常臨床での EORTC QOL 評価尺度の活用

Wintner LM, Sztankay M, Aaronson N, Bottomley A, Giesinger JM, Groenvold M, et al. The use of EORTC measures in daily clinical practice-A synopsis of a newly developed manual. *Eur J Cancer*. 2016;68:73-81. Epub 2016/10/11. Pubmed; PMID 27721057.

【Br J Cancer. 2016;115(5-10)】**50. 患者・医師評価の PS と予後の関連**

Liu MA, Hshieh T, Condrón N, Wadleigh M, Abel GA, Driver JA. Relationship between physician and patient assessment of performance status and survival in a large cohort of patients with haematologic malignancies. *Br J Cancer*. 2016;115(7):858-61. Epub 2016/08/24. Pubmed; PMID 27552440.

51. がん患者の症状の自覚と医学支援の障害と予後の関連

Niksic M, Rachet B, Duffy SW, Quaresma M, Moller H, Forbes LJ. Is cancer survival associated with cancer symptom awareness and barriers to seeking medical help in England? An ecological study. *Br J Cancer*. 2016;115(7):876-86. Epub 2016/08/19. Pubmed; PMID 27537388.

【Cancer. 2016;122(17-22)】**52. 小児がん長期サバイバーの健康上のリスクある行動**

Lown EA, Hijiya N, Zhang N, Srivastava DK, Leisenring WM, Nathan PC, et al. Patterns and predictors of clustered risky health behaviors among adult survivors of childhood cancer: A report from the Childhood Cancer Survivor Study. *Cancer*. 2016;122(17):2747-56. Epub 2016/06/04. Pubmed; PMID 27258389.

53. 子どもをがんで亡くした親に対する医療者の役割

Snaman JM, Kaye EC, Torres C, Gibson DV, Baker JN. Helping parents live with the hole in their heart: The role of health care providers and institutions in the bereaved parents' grief journeys. *Cancer*. 2016;122(17):2757-65. Epub 2016/06/01. Pubmed; PMID 27244654.

54. 若年がんサバイバーの喫煙、併存疾患、健康状態

Kaul S, Veeranki SP, Rodriguez AM, Kuo YF. Cigarette smoking, comorbidity, and general health among survivors of adolescent and young adult cancer. *Cancer*. 2016;122(18):2895-905. Epub 2016/06/11. Pubmed; PMID 27286172.

55. 患者アウトカム評価セット PROMIS による外来での倦怠感や不眠評価の実施可能性

Leung YW, Brown C, Cosio AP, Dobriyal A, Malik N, Pat V, et al. Feasibility and diagnostic accuracy of the Patient-Reported Outcomes Measurement Information System (PROMIS) item banks for routine surveillance of sleep and fatigue problems in ambulatory cancer care. *Cancer*. 2016;122(18):2906-17. Epub 2016/06/29. Pubmed; PMID 27351521.

56. 救急外来の進行がん患者でのせん妄有症率

Elsayem AF, Bruera E, Valentine AD, Warneke CL, Yeung SC, Page VD, et al. Delirium frequency among advanced cancer patients presenting to an emergency department: A prospective, randomized, observational study. *Cancer*. 2016;122(18):2918-24. Epub 2016/07/28. Pubmed; PMID 27455035.

57. 乳がん術後の運動療法のインターネットによる介入の RCT

Galiano-Castillo N, Cantarero-Villanueva I, Fernandez-Lao C, Ariza-Garcia A, Diaz-Rodriguez L, Del-Moral-Avila R, et al. Telehealth system: A randomized controlled trial evaluating the impact of an internet-based exercise intervention on quality of life, pain, muscle strength, and fatigue in breast cancer survivors. *Cancer*. 2016;122(20):3166-74. Epub 2016/06/23. Pubmed; PMID 27332968.

58. 小児がん長期サバイバーの心理的苦痛

D'Agostino NM, Edelstein K, Zhang N, Recklitis CJ, Brinkman TM, Srivastava D, et al. Comorbid symptoms of emotional distress in adult survivors of childhood cancer. *Cancer*. 2016;122(20):3215-24. Epub 2016/07/09. Pubmed; PMID 27391586.

59. がん治療からサバイバーケアへの移行時の支援

Kvale EA, Huang CS, Meneses KM, Demark-Wahnefried W, Bae S, Azuero CB, et al. Patient-centered support in the survivorship care transition: Outcomes from the Patient-Owned Survivorship Care Plan Intervention. *Cancer*. 2016;122(20):3232-42. Epub 2016/07/09. Pubmed; PMID 27387096.

60. がん患者での医療用大麻の保管と廃棄

Sznitman SR, Goldberg V, Sheinman-Yuffe H, Flechter E, Bar-Sela G. Storage and disposal of medical cannabis among patients with cancer: Assessing the risk of diversion and unintentional ingestion. *Cancer*. 2016;122(21):3363-70. Epub 2016/10/21. Pubmed; PMID 27420392.

61. 進行がん患者の睡眠の質と倦怠感、症状の負担、気分との関連

George GC, Iwuanyanwu EC, Anderson KO, Yusuf A, Zinner RG, Piha-Paul SA, et al. Sleep quality and its associa-

tion with fatigue, symptom burden, and mood in patients with advanced cancer in a clinic for early-phase oncology clinical trials. *Cancer*. 2016;122(21):3401-9. Epub 2016/10/21. Pubmed; PMID 27412379.

62. 第I相試験を受けるがん患者の動機と期待

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63. がん患者相談サービス利用と施設背景の関連

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