

Bölüm 16

YOĞUN BAKIMDAKİ KANSER HASTALARININ PROGNOZU

Kamil GÖNDEREN¹

GİRİŞ

Yoğun bakım ünitesi, kritik hastalığı olan ve yüksek risk altında bulunan hastaların invaziv ve invaziv olmayan yöntemlerle izlendiği, yaşam fonksiyonlarının desteklendiği ve en son teknoloji kullanılarak agresif bir şekilde tedavi edildiği ünitelerdir. Günümüzde tedavi modalitelerinin gelişmesi sonucunda kanserli hastaların yaşam süresi uzamıştır. Bu nedenle kanser hastalarının, hastalıklarının herhangi bir döneminde yoğun bakım ihtiyaçları giderek artan oranda ortaya çıkmaktadır. Mortalite oranlarının yüksek olması nedeniyle daha önceki yıllarda kanser hastalarının yoğun bakım ünitelerinde takip edilmesi istenmezken, günümüzde bu yaklaşımdan uzaklaşmış ve hematopoetik hücre nakli (HHN) yapılmış olan hastalar da dahil olmak üzere altta yatan malignite ile ilişkili veya tedaviye bağlı gelişen komplikasyonların tedavisi için hastaların yoğun bakım ünitesi (YBÜ)'ne daha erken alınmasının sağ kalım oranlarını arttırdığı görülmüştür. (Azoulay & ark., 2011).

Kanser hastalarının prognozunun belirlenmesi, yoğun bakıma yatış gerektiren kritik hastalıkla ilgili klinik kararların alınmasında önemli rol oynamaktadır. Bu konuda yoğun bakımda yatan kanserli hastaların prognozu ve mortalitesini belirleyen faktörler tartışılmaktadır.

YOĞUN BAKIM YATIŞ ENDİKASYONLARI

Resmi gazetede 2011 yılında yayınlanan Yataklı Sağlık Tesislerinde Yoğun Bakım Hizmetlerinin Uygulama Usul ve Esasları Hakkında Tebliğ'inde yoğun bakım servisleri "bir ya da daha fazla organ veya organ sistemlerinde ciddi işlev bozukluğu nedeniyle yoğun bakım gereksinimi olan hastaların iyileştirilmesini amaçlayan, fiziksel alt yapısı ve konumu itibarıyla hasta bakımı açısından özellik taşıyan, ileri teknolojiye sahip cihazlarla donatılmış, yaşamsal göstergelerin iz-

¹ Doktor Öğretim Üyesi, Kütahya Sağlık Bilimleri Üniversitesi Tıp Fakültesi, kamil.gonderen@ksbu.edu.tr

me kaydetmeyen hastalar için erken dönemde palyatif tedavi verilmesi ve yaşam sonu tartışmalarının aile bireyleri ile yapılmasını önermektedir (Simoff & ark., 2013).

KAYNAKÇA

- Adam AK, Soubani AO. Outcome and prognostic factors of lung cancer patients admitted to the medical intensive care unit. *Eur Respir J* 2008; 31:47
- Afessa B, Tefferi A, Dunn WF, et al. Intensive care unit support and Acute Physiology and Chronic Health Evaluation III performance in hematopoietic stem cell transplant recipients. *Crit Care Med* 2003; 31:1715.
- Allareddy V, Roy A, Rampa S, et al. Outcomes of stem cell transplant patients with acute respiratory failure requiring mechanical ventilation in the United States. *Bone Marrow Transplant* 2014; 49:1278
- Azevedo LC, Caruso P, Silva UV, et al. Outcomes for patients with cancer admitted to the ICU requiring ventilatory support: results from a prospective multicenter study. *Chest* 2014; 146:257
- Azoulay E, Soares M, Darmon M, et al. Intensive care of the cancer patient: recent achievements and remaining challenges. *Ann Intensive Care* 2011;1: 5.
- Azoulay E, Mokart D, Pène F, et al. Outcomes of critically ill patients with hematologic malignancies: prospective multicenter data from France and Belgium--a groupe de recherche respiratoire en réanimation onco-hématologique study. *J Clin Oncol* 2013; 31:2810.
- Bayraktar UD, Shpall EJ, Liu P, et al. Hematopoietic cell transplantation-specific comorbidity index predicts inpatient mortality and survival in patients who received allogeneic transplantation admitted to the intensive care unit. *J Clin Oncol* 2013; 31:4207
- Benoit DD, Vandewoude KH, Decruyenaere JM, et al. Outcome and early prognostic indicators in patients with a hematologic malignancy admitted to the intensive care unit for a life-threatening complication. *Crit Care Med* 2003; 31:104.
- Benz R, Schanz U, Maggiorini M, et al. Risk factors for ICU admission and ICU survival after allogeneic hematopoietic SCT. *Bone Marrow Transplant* 2014; 49:62.
- Bird GT, Farquhar-Smith P, Wigmore T, et al. Outcomes and prognostic factors in patients with haematological malignancy admitted to a specialist cancer intensive care unit: a 5 yr study. *Br J Anaesth* 2012; 108:452.
- Chang CH, Kao KC, Hu HC, et al. The utility of surgical lung biopsy in cancer patients with acute respiratory distress syndrome. *J Cardiothorac Surg* 2013; 8:128.
- Coudroy R, Jamet A, Petua P, et al. High-flow nasal cannula oxygen therapy versus noninvasive ventilation in immunocompromised patients with acute respiratory failure: an observational cohort study. *Ann Intensive Care* 2016; 6: 45. doi: 10.1186/s13613-016-0151-7.
- Crawford SW, Petersen FB. Long-term survival from respiratory failure after marrow transplantation for malignancy. *Am Rev Respir Dis* 1992; 145:510.
- de Montmollin E, Tandjaoui-Lambiotte Y, Legrand M, et al. Outcomes in critically ill cancer patients with septic shock of pulmonary origin. *Shock* 2013; 39:250.
- Darmon M, Thiery G, Ciroldi M, et al. Intensive care in patients with newly diagnosed malignancies and a need for cancer chemotherapy. *Crit Care Med* 2005; 33:2488
- Faber-Langendoen K, Caplan AL, McGlave PB. Survival of adult bone marrow transplant patients receiving mechanical ventilation: a case for restricted use. *Bone Marrow Transplant* 1993; 12:501.

- Frat JP, Ragot S, Girault C, et al. Effect of non-invasive oxygenation strategies in immunocompromised patients with severe acute respiratory failure: a post-hoc analysis of a randomised trial. *Lancet Respir Med*. 2016; 4: 646-52.
- Gilbert CR, Lerner A, Baram M, Awsare BK. Utility of flexible bronchoscopy in the evaluation of pulmonary infiltrates in the hematopoietic stem cell transplant population -- a single center fourteen year experience. *Arch Bronconeumol* 2013; 49:189.
- Hampshire PA, Welch CA, McCrossan LA, et al. Admission factors associated with hospital mortality in patients with haematological malignancy admitted to UK adult, general critical care units: a secondary analysis of the ICNARC Case Mix Programme Database. *Crit Care* 2009; 13:R137.
- Huaranga AJ, Leyva FJ, Giralt SA, et al. Outcome of bone marrow transplantation patients requiring mechanical ventilation. *Crit Care Med* 2000; 28:1014.
- Kress JP, Christenson J, Pohlman AS, et al. Outcomes of critically ill cancer patients in a university hospital setting. *Am J Respir Crit Care Med* 1999; 160:1957
- Martos-Benítez FD, Soto-García A, Gutiérrez-Noyola A. Clinical characteristics and outcomes of cancer patients requiring intensive care unit admission: a prospective study. *J Cancer Res Clin Oncol* 2018; 144:717.
- Mokart D, van Craenenbroeck T, Lambert J, et al. Prognosis of acute respiratory distress syndrome in neutropenic cancer patients. *Eur Respir J* 2012; 40:169.
- Nava S, Hill N. Non-invasive ventilation in acute respiratory failure. *Lancet* 2009; 374: 250-9.
- Oeyen SG, Benoit DD, Annemans L, et al. Long-term outcomes and quality of life in critically ill patients with hematological or solid malignancies: a single center study. *Intensive Care Med* 2013; 39:889.
- Pastores SM, Voigt LP. Acute Respiratory Failure in the Patient with Cancer: Diagnostic and Management Strategies. *Crit Care Clin* 2010; 26: 21-40.
- Pène F, Aubron C, Azoulay E, et al. Outcome of critically ill allogeneic hematopoietic stem-cell transplantation recipients: a reappraisal of indications for organ failure supports. *J Clin Oncol* 2006; 24:643.
- Pène F, Percheron S, Lemiale V, et al. Temporal changes in management and outcome of septic shock in patients with malignancies in the intensive care unit. *Crit Care Med* 2008; 36:690
- Piñana JL, Martino R, Barba P, et al. Pulmonary function testing prior to reduced intensity conditioning allogeneic stem cell transplantation in an unselected patient cohort predicts posttransplantation pulmonary complications and outcome. *Am J Hematol* 2012; 87:9.
- Platon L, Amigues L, Ceballos P, et al. A reappraisal of ICU and long-term outcome of allogeneic hematopoietic stem cell transplantation patients and reassessment of prognosis factors: results of a 5-year cohort study (2009-2013). *Bone Marrow Transplant* 2016; 51:256.
- Puxty K, McLoone P, Quasim T, et al. Survival in solid cancer patients following intensive care unit admission. *Intensive Care Med* 2014; 40:1409
- Rhee CK, Kang JY, Kim YH, et al. Risk factors for acute respiratory distress syndrome during neutropenia recovery in patients with hematologic malignancies. *Crit Care* 2009; 13:R173.
- Rubinfeld GD, Crawford SW. Withdrawing life support from mechanically ventilated recipients of bone marrow transplants: a case for evidence-based guidelines. *Ann Intern Med* 1996; 125:625.

- Sculier JP, Paesmans M, Markiewicz E, Berghmans T. Scoring systems in cancer patients admitted for an acute complication in a medical intensive care unit. *Crit Care Med* 2000; 28:2786.
- Simoff MJ, Lally B, Slade MG, et al. Symptom management in patients with lung cancer: Diagnosis and management of lung cancer, 3rd ed: American College of Chest Physicians evidence-based clinical practice guidelines. *Chest* 2013; 143:e455S.
- Soares M, Caruso P, Silva E, et al. Characteristics and outcomes of patients with cancer requiring admission to intensive care units: a prospective multicenter study. *Crit Care Med* 2010; 38:9.
- Temel JS, Greer JA, Muzikansky A, et al. Early palliative care for patients with metastatic non-small-cell lung cancer. *N Engl J Med* 2010; 363:733.
- Torres VB, Azevedo LC, Silva UV, et al. Sepsis-Associated Outcomes in Critically Ill Patients with Malignancies. *Ann Am Thorac Soc* 2015; 12:1185.
- Townsend WM, Holroyd A, Pearce R, et al. Improved intensive care unit survival for critically ill allogeneic haematopoietic stem cell transplant recipients following reduced intensity conditioning. *Br J Haematol* 2013; 161:578
- Türkoğlu M, Erdem GU, Suyani E, et al. Acute respiratory distress syndrome in patients with hematological malignancies. *Hematology* 2013; 18: 123-30.
- van Gestel JP, Bollen CW, van der Tweel I, et al. Intensive care unit mortality trends in children after hematopoietic stem cell transplantation: a meta-regression analysis. *Crit Care Med* 2008; 36:2898.
- Vandijck DM, Benoit DD, Depuydt PO, et al. Impact of recent intravenous chemotherapy on outcome in severe sepsis and septic shock patients with hematological malignancies. *Intensive Care Med* 2008; 34:847.
- Vincent J-L, Moreno R. Clinical review: Scoring system in the critically ill. *Critical Care* 2010;14(207):1-9.
- Yataklı Sağlık Tesislerinde Yoğun Bakım Hizmetlerinin Uygulama Usul ve Esasları Hakkında Tebliğ. *Resmi Gazete*; 18.01.2011; 28000 sayı.