Oncology Grand Rounds Series:
Part 1 — Cancer Immunotherapy

TARGET AUDIENCE
This activity has been designed to meet the educational needs of oncology nurses, nurse practitioners and clinical nurse specialists involved in the treatment of cancer.

OVERVIEW OF ACTIVITY
The past several years have seen an explosion in the emergence of new potential therapies that leverage the natural ability of the human body to attack and treat cancer. Known as immune-mediated therapies, or cancer immunotherapies, these promising treatments are taking center stage at medical conferences and generating excitement all over the world. Of interest, “immunotherapies” are not new, as scientists have been investigating strategies to elicit an effective immune response against malignant tumors for more than a century and the first immune treatments in oncology received FDA approval in the 1990s. The newest and perhaps most exciting arena in cancer immunotherapy has been the development and assessment of immune-modulating antibodies, or checkpoint immune modulators. To date studies have demonstrated that these agents are highly active across a number of diseases, most notably melanoma, renal cell carcinoma, non-small cell lung cancer and bladder cancer, representing the dawn of a new era in oncologic treatment that may effectively transform chemotherapy infusion rooms into immunotherapy delivery centers.

The introduction of these therapies has created a multitude of uncertainties, important clinical questions and knowledge gaps awaiting resolution. This seems to be particularly true among oncology nurses, who play an integral role in the successful delivery of systemic anticancer therapy and the preservation of patient physical and psychosocial well-being, thereby requiring that they possess a varied set of skills and an extensive knowledge base. These video proceedings from the first part of an 8-part integrated CNE curriculum originally held at the 2016 ONS Annual Congress feature discussions with leading oncology investigators and their nursing counterparts regarding actual patient cases and recent clinical research findings affecting the optimal therapeutic and supportive care for each patient scenario.

PURPOSE STATEMENT
By providing information on the latest research developments in the context of expert perspectives, this CNE activity will assist oncology nurses, nurse practitioners and clinical nurse specialists with the formulation of an understanding of the mechanism of action of cancer immunotherapies, their role in the clinical algorithm and the unique spectrum of associated side effects to facilitate optimal care of patients with cancer.

LEARNING OBJECTIVES
• Develop a basic understanding of the human immune response, and identify the underlying mechanisms by which various cancers evade this process to proliferate and grow.
• Recognize the FDA approvals of nivolumab, pembrolizumab and the combination of nivolumab and ipilimumab for the management of metastatic melanoma, and understand where these approaches fit into the clinical algorithm.
• Discuss the mechanism of action, clinical efficacy and tolerability profiles of checkpoint inhibitors and other immunotherapies in a variety of cancers.
• Understand the broad spectrum of unique side effects related to immunotherapies, and develop a plan to monitor and care for patients accordingly.
• Recall the design of ongoing clinical trials evaluating novel immunotherapeutic approaches, and counsel appropriately selected patients about availability and participation.

ACCREDITATION STATEMENT
Research To Practice is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation.

CREDIT DESIGNATION STATEMENTS
This educational activity for 2.2 contact hours is provided by Research To Practice during the period of August 2016 through August 2017.

This activity is awarded 2.2 ANCC pharmacotherapeutic contact hours.
ONCC/ILNA CERTIFICATION INFORMATION
The program content has been reviewed by the Oncology Nursing Certification Corporation (ONCC) and is acceptable for recertification points. To review certification qualifications please visit ResearchToPractice.com/ONS2016/ILNA.

ONCC review is only for designating content to be used for recertification points and is not for CNE accreditation. CNE programs must be formally approved for contact hours by an acceptable accreditor/approver of nursing CE to be used for recertification by ONCC. If the CNE provider fails to obtain formal approval to award contact hours by an acceptable accrediting/approval body, no information related to ONCC recertification may be used in relation to the program.

FOR SUCCESSFUL COMPLETION
This is a video CNE program. To receive credit, participants should read the learning objectives and faculty disclosures, watch the video, complete the Post-test with a score of 75% or better and fill out the Educational Assessment and Credit Form located at ResearchToPractice.com/ONSImmunotherapy2016/CNE.

CONTENT VALIDATION AND DISCLOSURES
Research To Practice (RTP) is committed to providing its participants with high-quality, unbiased and state-of-the-art education. We assess conflicts of interest with faculty, planners and managers of CNE activities. Conflicts of interest are identified and resolved through a conflict of interest resolution process. In addition, all activity content is reviewed by both a member of the RTP scientific staff and an external, independent reviewer for fair balance, scientific objectivity of studies referenced and patient care recommendations.

FACULTY — The following faculty (and their spouses/partners) reported relevant conflicts of interest, which have been resolved through a conflict of interest resolution process:

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RESEARCH TO PRACTICE STAFF AND EXTERNAL REVIEWERS — The scientific staff and reviewers for Research To Practice have no relevant conflicts of interest to disclose.

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**Hardware/Software Requirements:**
A high-speed Internet connection
A monitor set to 1280 x 1024 pixels or more
Internet Explorer 7 or later, Firefox 3.0 or later, Chrome, Safari 3.0 or later
Adobe Flash Player 10.2 plug-in or later
Adobe Acrobat Reader
(Optional) Sound card and speakers for audio

**Last review date:** August 2016

**Expiration date:** August 2017

There is no implied or real endorsement of any product by RTP or the American Nurses Credentialing Center.
Select Publications


Ansell S et al. Nivolumab in patients (pts) with relapsed or refractory classical Hodgkin lymphoma (R/R cHL): Clinical outcomes from extended follow-up of a phase 1 study (CA209-039). *Proc ASH* 2015;Abstract 583.


Spira AI et al. Efficacy, safety and predictive biomarker results from a randomized phase II study comparing atezolizumab (MPDL3280A) versus docetaxel in 2L/3L NSCLC (POPLAR). *Proc ASCO* 2015;Abstract 8010.
