July 2, 2014

Navidea to Webcast Investor Briefing on Sentinel Lymph Node Biopsy in Head & Neck Cancers July 8, 2014

DUBLIN, Ohio--(BUSINESS WIRE)-- Navidea Biopharmaceuticals, Inc. (NYSE MKT: NAVB), a biopharmaceutical company focused on precision diagnostic radiopharmaceuticals, today announced it will host a webcast of an investor briefing to discuss the role of sentinel lymph node biopsy in head and neck cancers on Tuesday, July 8, 2014 from 8:00 to 9:00 am EDT in New York City.

Invited medical expert, Stephen Y. Lai, MD, PhD, FACS, Associate Professor, Department of Head and Neck Surgery, The University of Texas MD Anderson Cancer Center will present and field questions regarding his experiences and views on head and neck cancer and the use of Lymphoseek® (Technetium Tc99m Tilmanocept) Injection for sentinel lymph node biopsies in the evaluation and treatment of oral cavity cancers. Navidea Interim CEO Michael Goldberg, MD will provide the Company's perspective following the recent sNDA approval of Lymphoseek.

The standard of care for certain head and neck cancers has historically involved the removal of 30 or more lymph nodes. In Navidea's Phase 3 study of Lymphoseek in head and neck cancers of the oral cavity, multiple level nodal dissections of patients with cancer-positive lymph nodes led to an average removal of 38 lymph nodes per patient, whereas Lymphoseek on average would have led to the removal of approximately 4 lymph nodes, representing a substantial reduction in potential morbidity for patients with head and neck cancer undergoing sentinel lymph node biopsy. This data contributed to Lymphoseek becoming the first and only FDA-approved radiopharmaceutical for guiding sentinel lymph node (SLN) biopsy in head and neck cancer patients with clinically node negative squamous cell carcinoma of the oral cavity following approval in June 2014.

The investor briefing will be webcast live, and may be accessed by visiting the "Investors" section of the Company's website, http://ir.navidea.com or this link: http://lifesci.rampard.com/20140708. An archived version of the webcast can be found on Navidea's website for 30 days following the event. To attend in person, please contact Veronica X. Molina, LifeSci Advisors for seating availability at 646-597-6987 or by email at:vmolina@lifesciadvisors.com.

Lymphoseek Indication and Important Safety Information

Lymphoseek (technetium Tc 99m tilmanocept) Injection is indicated, using a hand-held gamma counter, for:

- Lymphatic mapping to assist in the localization of lymph nodes draining a primary tumor site in patients with breast cancer or melanoma.

- Guiding sentinel lymph node biopsy, in patients with clinically node negative squamous cell carcinoma (SCC) of the oral cavity.

Important Safety Information

In clinical trials with Lymphoseek, no serious hypersensitivity reactions were reported, however Lymphoseek may pose a risk of such reactions due to its chemical similarity to dextran. Serious hypersensitivity reactions have been associated with dextran and modified forms of dextran (such as iron dextran drugs).

Prior to the administration of Lymphoseek, patients should be asked about previous hypersensitivity reactions to drugs, in particular dextran and modified forms of dextran. Resuscitation equipment and trained personnel should be available at the time of Lymphoseek administration, and patients observed for signs or symptoms of hypersensitivity following injection.

Any radiation-emitting product may increase the risk for cancer. Adhere to dose recommendations and ensure safe handling to minimize the risk for excessive radiation exposure to patients or health care workers. In clinical trials, no patients experienced serious adverse reactions and the most common adverse reactions were injection site irritation and/or pain (<1%).

FULL LYMPHOSEEK PRESCRIBING INFORMATION CAN BE FOUND AT: WWW.LYMPHOSEEK.COM

About Navidea Biopharmaceuticals Inc.

Navidea Biopharmaceuticals, Inc. (NYSE MKT: NAVB) is a biopharmaceutical company focused on the development and commercialization of precision diagnostics and radiopharmaceutical agents. Navidea is developing multiple precision diagnostic products and platforms, including NAV4694, NAV5001, Manocept™ and NAV1800 (RIGScan™), to help identify the sites and pathways of undetected disease and enable better diagnostic accuracy, clinical decision-making and, ultimately, patient care. Lymphoseek® (technetium Tc 99m tilmanocept) Injection, Navidea's first commercial product from the Manocept platform, was approved by the FDA in March 2013. Navidea's strategy is to deliver superior growth and shareholder return by bringing to market novel radiopharmaceutical agents and advancing the Company's pipeline through selective acquisitions, global partnering and commercialization efforts. For more information, please visit www.navidea.com.

The Private Securities Litigation Reform Act of 1995 (the Act) provides a safe harbor for forward-looking statements made by or on behalf of the Company. Statements in this news release, which relate to other than strictly historical facts, such as statements about the Company's plans and strategies, expectations for future financial performance, new and existing products and technologies, anticipated clinical and regulatory pathways, and markets for the Company's products are forward-looking statements within the meaning of the Act. The words "believe," "expect," "anticipate," "estimate," "project," and similar expressions identify forward-looking statements that speak only as of the date hereof. Investors are cautioned that such statements involve risks and uncertainties that could cause actual results to differ materially from historical or anticipated results due to many factors including, but not limited to, the Company's continuing operating losses, uncertainty

of market acceptance of its products, reliance on third party manufacturers, accumulated deficit, future capital needs, uncertainty of capital funding, dependence on limited product line and distribution channels, competition, limited marketing and manufacturing experience, risks of development of new products, regulatory risks and other risks detailed in the Company's most recent Annual Report on Form 10-K and other Securities and Exchange Commission filings. The Company undertakes no obligation to publicly update or revise any forward-looking statements.

Navidea Biopharmaceuticals
Brent Larson, 614-822-2330
Executive VP & CFO
or
Sharon Correia, 978-655-2686
Associate Director, Corporate Communications

Source: Navidea Biopharmaceuticals, Inc.