



February 3<sup>rd</sup> 2015

Dear Ms. [REDACTED],

Thank you for reaching out to Tata Memorial Centre for an expert opinion in regard to assessing your treatment options. Navya Network is pleased to offer this online consultation service for Tata Memorial Centre.

We converted your case reports into a structured summary to be reviewed by a medical oncologist in the Breast Disease Management Group at Tata Memorial Centre. We asked the following question(s) on your behalf:

1. What is the recommended regimen for adjuvant chemotherapy?
2. What is the recommended regimen for adjuvant hormone therapy?

Tata Memorial Centre's opinion is summarized as follows:

1. FISH test to determine the HER2/neu status is recommended, despite the given immunohistochemical status (IHC) for HER2/neu as positive (3+)
2. Since the histopathology reports indicate that the tumor/lesion is strongly positive for hormone receptor, i.e., Allred score 8 for Estrogen Receptor (ER), and the nodes are negative (i.e. there is no cancer in the lymph nodes/axilla), therefore there is a possibility that the result of the immunohistochemical (IHC) test is falsely elevated for HER2/neu receptor. A confirmatory test for HER2/neu status such as the FISH test is strongly recommended.
3. If HER2/neu status is positive by FISH test, then treatment with adjuvant chemotherapy is recommended, six to eight weeks after surgery.
4. If HER2/neu status is negative by FISH test, then adjuvant chemotherapy may or may not be recommended.
5. BRCA testing is recommended.

We hope that the expert opinion is helpful in determining the course of your treatment.

Navya Network is pleased to provide additional information on your medical reports.

Biomarker Ki 67 test is recommended, while awaiting for the results of FISH test.

Please note that adjuvant Locoregional Radiation Therapy (LRRT) after mastectomy (i.e. complete removal of breast) for node negative patients (i.e. no cancer in the lymph nodes) is not recommended by Tata Memorial Centre and National Comprehensive Cancer Network (NCCN), which lists the globally accepted guidelines for the treatment of cancers.



Please discuss this opinion with your treating oncologist. You may also reach out to us with results of FISH test and Ki 67, for an expert opinion from Tata Memorial Centre for the further treatment plan.

Please do not hesitate to write to us or call us with any questions.

Sincerely,

Gitika Srivastava



**CASE SUMMARY** Navya ID [REDACTED] Expert Opinion ID [REDACTED], Ms. [REDACTED].

**Age:** 62 Years Old

**Note:** H/o uterine cancer

**Family History:** Yes

**Family History - First Degree Blood Relative:** Mother

**Clinical Diagnosis:** Operable Breast Cancer (OBC)

**Path TNM Stage-SubCategory:** Stage IIA - T2 N0 M0

**Menopausal Status:** Post-Menopausal

**Breast Cancer Laterality:** Left

**Upper Outer Quadrant:** Yes

**Chest X-Ray Date:** January 9th 2015

**Chest X-Ray:** Normal

**Abdomen / Pelvis US Date:** January 9th 2015

**Abdomen/ Pelvis US:** Normal

**Bone Scan:** Not Done

**FDG-PET:** Not Done

**Prior Surgery:**

Timing	Surgery	Surgery Date
Primary	Mast- Modified Radical Mastectomy (MRM)	January 13th 2015

**Pathological Tumor Size (cm) Dimension 1 :** 3.00

**Pathological Tumor Size (cm) Dimension 2 :** 2.00

**Pathological Tumor Size (cm) Dimension 3 : 1.50**

**Number of Positive Axillary Pathological Lymph Nodes: 0**

**Number of Axillary Pathological Lymph Nodes Resected: 17**

**Malignant Breast Disease: Invasive Ductal Carcinoma (IDC)**

**Cancer Grade: II**

**Margins - Surgery1: Negative (>10mm)**

**Modified Richardson Bloom Score : 6**

**Extensive Intraductal Component: Negative**

**Ductal Carcinoma In Situ: Yes- comedo necrosis**

**Lymphovascular Invasion: Negative**

**Estrogen Receptors ER - Status: Positive**

**Estrogen Receptors ER - Allred: 8**

**Progesterone Receptors PR - Status: Negative**

**HER 2 NEU Receptors - Status: Positive**

**HER 2 NEU Receptors - IHC: 3+**

**Functional Status- ECOG Score: 0**

**Bone Marrow (Hematologic) Function : Adequate**

**Liver (Hepatic) Function: Adequate**

**Kidney (Renal) Function: Adequate**

**Heart (Cardiac) Function : Adequate**

**LV Ejection Fraction: 60.00**



Navya Network is a Cambridge, MA based company with offices in Bangalore, India. Navya Network is founded by graduates of Harvard University, MIT Sloan School of Management, and the Stanford School of Medicine. Navya's innovative and scalable decision making system is a technology powered solution for complex medical questions. Navya's software solutions are efficient engines to gather and synthesize individual goals of care, evidence specific to an individual medical case, and expert opinion, for evaluating treatment alternatives. Navya's goal is to assist in bringing clarity to the complexity of evaluating treatment alternatives. Navya's system collects the best available information and expertise from several worldwide sources relevant to a specific previously diagnosed medical case and assesses treatment decisions. For more information, please visit [www.navyanetwork.com](http://www.navyanetwork.com)

If you have any questions, please call +91 9845423460 or email [gitika@navyatech.in](mailto:gitika@navyatech.in)

Navya Network, Inc does not diagnose, prescribe medication, treat, or give orders, nor does Navya have the ultimate authority over the care of any individuals. Navya does not provide medical advice nor does its products, services, systems, projects, or programs constitute the practice of medicine, nursing, or any other health care profession. Any information provided by Navya as a result of use of Navya's products, services, systems, projects, or programs is being provided solely for educational and informational benefit and should not be considered diagnosis, treatment or a substitute for professional medical advice. Use of Navya's products, services, systems, projects, or programs does not establish a doctor-patient relationship. Navya encourages that individuals or patients using Navya's products, services, systems, projects, or programs share any reports or other information generated by the use of Navya's products, services, systems, projects, or programs with their treating health care provider.

Use of Navya's products, services, systems, projects, or programs is voluntary and any information communicated as a result of the use of Navya's products, services, systems, projects, or programs is not intended to be, nor implied to be, and cannot and should not be used as a substitute for professional medical advice, diagnosis or treatment. Navya's products, services, systems, projects, or programs are limited to the provision of consultative services with respect to known or previously-identified condition and neither Navya, nor its employees, consultants or agents with whom it contracts will diagnose, treat, give orders, prescribe medications or have any authority over the care of any individuals. Navya's products, services, systems, projects, or programs will not involve any direct face-to-face encounters or physical examinations. Accordingly, individuals using Navya's products, services, systems, projects, or programs are encouraged to share and discuss any information provided as a result of use of Navya's products, services, systems, projects, or programs with their treating physician. The individuals or patients using Navya's products, services, systems, projects, or programs will be the ultimate decision maker over their own care.



INDIVIDUALS OR PATIENTS USING NAVYA'S PRODUCTS, SERVICES, SYSTEMS, PROJECTS, OR PROGRAMS SHOULD NEVER DELAY OR AVOID SEEKING MEDICAL ADVICE OR ATTENTION FROM THEIR REGULAR HEALTH CARE PROVIDER OR TREATING PHYSICIAN OR DOCTOR BECAUSE OF SOMETHING THEY HAVE LEARNED THROUGH THEIR USE OF NAVYA'S PRODUCTS, SERVICES, SYSTEMS, PROJECTS, OR PROGRAMS.

SHOULD ANY UNEXPECTED MEDICAL EVENT OCCUR WHILE AN INDIVIDUAL OR A PATIENT IS PARTICIPATING IN THE USE OF NAVYA'S PRODUCTS, SERVICES, SYSTEMS, PROJECTS, OR PROGRAMS, THE INDIVIDUAL OR THE PATIENT SHOULD IMMEDIATELY CALL THEIR HEALTH CARE PROVIDER OR TREATING PHYSICIAN OR DOCTOR OR LOCAL EMERGENCY ASSISTANCE NUMBER OR IMMEDIATELY VISIT THEIR LOCAL EMERGENCY ROOM.