Ormonoterapia e CHT adj nel carcinoma mammario invasivo

Un po' di chiarezza...

- In situ: NON PASSA LA MEMBRANA BASALE (MB)
- Invasivo: passa la MB
- Early: invasivo senza linfonodi (EBC)
- Localmente avanzato: invasivo con compromissione linfonodale (LABC)

In situ (DCIS o LCIS):

- ER/PgR (+): ormonoterapia???
- ER/PgR (-): osservazione
- HER2 (+) o HER2 (-): non importa. Non sognatevi il trastuzumab!!!

TNM

Table 1

American Joint Committee on Cancer (AJCC) TNM Staging System For Breast Cancer

Primary Tumor (T)

size of the tumor.

T4a

Definitions for classifying the primary tumor (T) are the same for clinical and for pathologic classification. If the measurement is made by the physical examination, the examiner will use the major headings (T1, T2, or T3). If other measurements, such as mammographic or pathologic measurements, are used, the subsets of T1 can be used. Tumors should be measured to the nearest 0.1 cm increment.

TX	Primary tumor cannot be assessed
T0	No evidence of primary tumor
Tis	Carcinoma in situ
Tis (DCIS)	Ductal carcinoma in situ
Tis (LCIS)	Lobular carcinoma in situ
Tis (Paget's)	Paget's disease of the nipple with no tumor
Note: Paget's	disease associated with a tumor is classified according to the

T1		Tumor 2 cm or less in greatest dimension
	T1mic	Microinvasion 0.1 cm or less in greatest dimension
	T1a	Tumor more than 0.1 cm but not more than 0.5 cm in greatest dimension
	T1b	Tumor more than 0.5 cm but not more than 1 cm in greatest dimension
	T1c	Tumor more than 1 cm but not more than 2 cm in greatest dimension
T2		Tumor more than 2 cm but not more than 5 cm in greatest dimension
T3		Tumor more than 5 cm in greatest dimension
T4		Tumor of any size with direct extension to (a) chest wall or

Extension to chest wall, not including pectoralis muscle

(b) skin, only as described below

T4b	Edema (including peau d'orange) or ulceration of the skin of the breast, or satellite skin nodules confined to the same breast	
T4c	Both T4a and T4b	
T4d	Inflammatory carcinoma	

Regional lymph nodes cannot be assessed (e.g., previously

Regional Lymph Nodes (N)

Clinical

N₃c

NX

		removed)	
N0		No regional lymph node metastasis	
N1	Metastasis to movable ipsilateral axillary lymph node(s		
N2		Metastases in ipsilateral axillary lymph nodes fixed or matted, or in <i>clinically apparent*</i> ipsilateral internal mammary nodes in the <i>absence</i> of clinically evident axillary lymph node metastasis	
	N2a	Metastases in ipsilateral axillary lymph nodes fixed to one another (matted) or to other structures	
	N2b	Metastasis only in clinically apparent* ipsilateral internal mammary nodes and in the absence of clinically evident axillary lymph node metastasis	
N3		Metastasis in ipsilateral infraclavicular lymph node(s) with	

	Metastasis in ipsilateral infraclavicular lymph node(s) with or without axillary lymph node involvement, or in clinically apparent* ipsilateral internal mammary lymph node(s) and in the presence of clinically evident axillary lymph node metastasis; or metastasis in ipsilateral supraclavicular lymph node(s) with or without axillary or internal mammary lymph node involvement	
N3a	Metastasis in ipsilateral infraclavicular lymph node(s)	
N3b	Metastasis in ipsilateral internal mammary lymph node(s) and axillary lymph node(s)	

Metastasis in ipsilateral supraclavicular lymph node(s)

*Clinically apparent is defined as detected by imaging studies (excluding lymphoscintigraphy) or by clinical examination or grossly visible pathologically.

Staging continued on next page (ST-2)

N

Table 1 (continued) Pathologic (pN)^a

pNX Regional lymph nodes cannot be assessed (e.g., previously

removed, or not removed for pathologic study)

pN0 No regional lymph node metastasis histologically, no additional examination for isolated tumor cells (ITC)

Note: Isolated tumor cells (ITC) are defined as single tumor cells or small cell clusters not greater than 0.2 mm, usually detected only by immonohistochemical (IHC) or molecular methods but which may be verified on H&E stains. ITCs do not usually show evidence of malignant activity e.g., proliferation or stromal reaction.

pN0(i-) No regional lymph node metastasis histologically, negative

pN0(i+) No regional lymph node metastasis histologically, positive IHC, no IHC cluster greater than 0.2 mm

pN0(mol-) No regional lymph node metastasis histologically, negative molecular findings (RT-PCR)^b

pN0(mol+) No regional lymph node metastasis histologically, positive molecular findings (RT-PCR)^b

"Classification is based on axillary lymph node dissection with or without sentinel lymph node dissection. Classification based solely on sentinel lymph node dissection without subsequent axillary node dissection is designated (sn) for "sentinel node," e.g., pN0(i+) (sn).

^bRT-PCR: reverse transcriptase/polymerase chain reaction.

pN1	Metastasis in 1 to 3 axillary lymph nodes, and/or in internal mammary nodes with microscopic disease detected by sentinel lymph node dissection but not clinically apparent**	
pN1mi	Micrometastasis (greater than 0.2 mm, none greater than 2.0 mm)	
pN1a	Metastasis in 1 to 3 axillary lymph nodes	

pN1b Metastasis in internal mammary nodes with microscopic disease detected by sentinel lymph node dissection but not

clinically apparent**

pN1c	Metastasis in 1 to 3 axillary lymph nodes and in internal mammary nodes with microscopic disease detected by sentinel lymph node dissection but not clinically apparent.**
	(If associated with greater than 3 positive axillary lymph nodes, the internal mammary nodes are classified as pN3b to reflect increased tumor burden)

pN2 Metastasis in 4 to 9 axillary lymph nodes, or in clinically apparent* internal mammary lymph nodes in the absence of axillary lymph node metastasis

pN2a Metastasis in 4 to 9 axillary lymph nodes (at least one tumor deposit greater than 2.0 mm)

pN2b Metastasis in *clinically apparent** internal mammary lymph nodes in the *absence* of axillary lymph node metastasis

pN3 Metastasis in 10 or more axillary lymph nodes, or in infraclavicular lymph nodes, or in clinically apparent* ipsilateral internal mammary lymph nodes in the presence

ipsilateral internal mammary lymph nodes in the *presence* of 1 or more positive axillary lymph nodes; or in more than 3 axillary lymph nodes with clinically negative microscopic metastasis in internal mammary lymph nodes; or in ipsilateral supraclavicular lymph nodes

pN3a Metastasis in 10 or more axillary lymph nodes (at least one tumor deposit greater than 2.0 mm), or metastasis to the infraclavicular lymph nodes

pN3b Metastasis in *clinically apparent** ipsilateral internal mammary lymph nodes in the *presence* of 1 or more positive axillary lymph nodes; or in more than 3 axillary lymph nodes and in internal mammary lymph nodes with microscopic disease detected by sentinel lymph node

dissection but not clinically apparent**

pN3c Metastasis in ipsilateral supraclavicular lymph nodes

Staging continued on next page (ST-3)

^{*} Clinically apparent is defined as detected by imaging studies (excluding lymphoscintigraphy) or by clinical examination.

^{**} Not clinically apparent is defined as not detected by imaging studies (excluding lymphoscintigraphy) or by clinical examination.

BC per stadi

Printed by M.Sofia Rosati on 1/4/2011 5:54:16 AM. For personal use only. Not approved for distribution. Copyright © 2011 National Comprehensive Cancer Network, Inc., All Rights Reserved.



Comprehensive NCCN Guidelines™ Version 2.2011

Invasive Breast Cancer

NCCN Guidelines Index Breast Cancer Table of Contents Staging, Discussion

CLINICAL STAGE WORKUP General workup including: History and physical exam CBC, platelets Liver function tests and alkaline phosphatase · Diagnostic bilateral mammogram, ultrasound as necessary Pathology review^a Stage I Determination of tumor estrogen/progesterone receptor (ER/PR) status and T1, N0, M0 HER2 statusb or Genetic counseling if patient is high risk for hereditary breast cancer^c Stage IIA T0, N1, M0 Optional studies for breast imaging: T1, N1, M0 Breast MRI^d See Locoregional T2, N0, M0 **Treatment** If clinical stage IIIA (T3, N1, M0) consider: (BINV-2) or Stage IIB Bone scan (category 2B) T2, N1, M0 Abdominal ± pelvis CT or US or MRI T3, N0, M0 Chest imaging or Additional studies as directed by signs or symptoms: Stage IIIA T3, N1, M0 Bone scan indicated if localized bone pain or elevated alkaline phosphatase Abdominal ± pelvis CT or US or MRI if elevated alkaline phosphatase, abnormal liver function tests, abdominal symptoms, abnormal physical examination of the abdomen or pelvis Chest imaging (if pulmonary symptoms are present) Optional FDG PET/CT (for T3,N1,M0) (category 2B)^e Consider fertility counseling if indicated^f

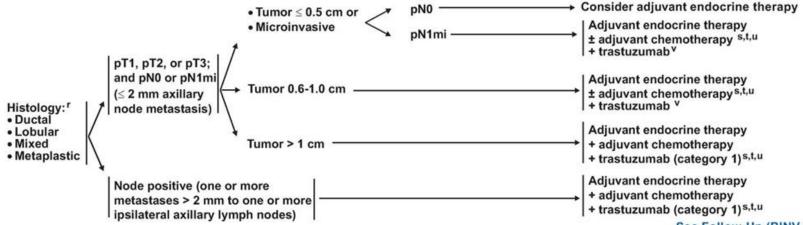
IBC, ER+, HER2+

Printed by M.Sofia Rosati on 1/4/2011 5:54:16 AM. For personal use only. Not approved for distribution. Copyright © 2011 National Comprehensive Cancer Network, Inc., All Rights Reserved.



NCCN Guidelines Index Breast Cancer Table of Contents Staging, Discussion

SYSTEMIC ADJUVANT TREATMENT - HORMONE RECEPTOR POSITIVE - HER2 POSITIVE DISEASE^b



See Follow-Up (BINV-16)

See Adjuvant Endocrine Therapy (BINV-J) and Adjuvant Chemotherapy (BINV-K)

IBC, ER+, HER2-

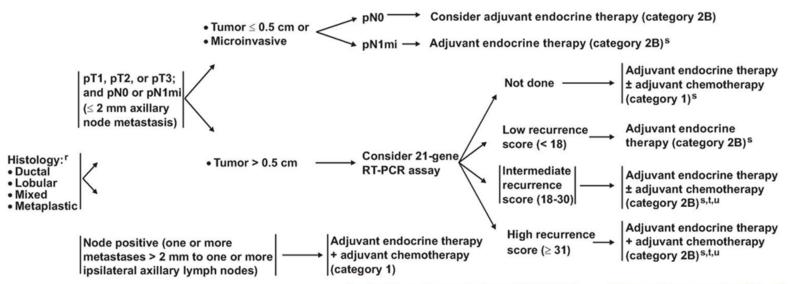
Printed by M.Sofia Rosati on 1/4/2011 5:54:16 AM. For personal use only. Not approved for distribution. Copyright © 2011 National Comprehensive Cancer Network, Inc., All Rights Reserved.



Comprehensive NCCN Guidelines™ Version 2.2011 Cancer Network® Invasive Breast Cancer

NCCN Guidelines Index Breast Cancer Table of Contents Staging, Discussion

SYSTEMIC ADJUVANT TREATMENT - HORMONE RECEPTOR POSITIVE - HER2 NEGATIVE DISEASE^b



See Adjuvant Endocrine Therapy (BINV-J) and Adjuvant Chemotherapy (BINV-K)

ER-, HER2+

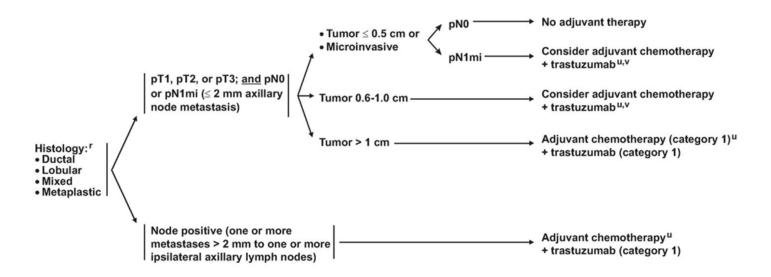
Printed by M.Sofia Rosati on 1/4/2011 5:54:16 AM. For personal use only. Not approved for distribution. Copyright © 2011 National Comprehensive Cancer Network, Inc., All Rights Reserved.



Comprehensive NCCN Guidelines TM Version 2.2011
Cancer
Network* Invasive Breast Cancer

NCCN Guidelines Index Breast Cancer Table of Contents Staging, Discussion

SYSTEMIC ADJUVANT TREATMENT - HORMONE RECEPTOR NEGATIVE - HER2 POSITIVE DISEASE^b



Triplo negative

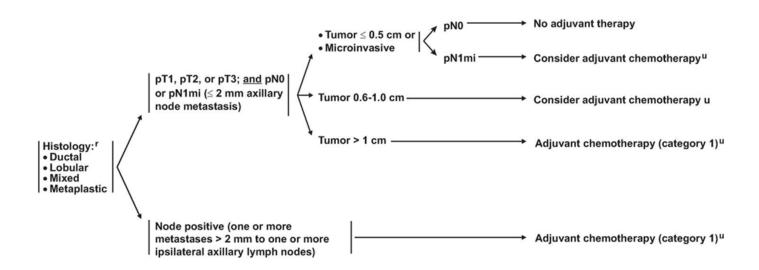
Printed by M.Sofia Rosati on 1/4/2011 5:54:16 AM. For personal use only. Not approved for distribution. Copyright © 2011 National Comprehensive Cancer Network, Inc., All Rights Reserved.



Comprehensive NCCN Guidelines™ Version 2.2011
Cancer
Network* Invasive Breast Cancer

NCCN Guidelines Index Breast Cancer Table of Contents Staging, Discussion

SYSTEMIC ADJUVANT TREATMENT - HORMONE RECEPTOR NEGATIVE - HER2 NEGATIVE DISEASE^b

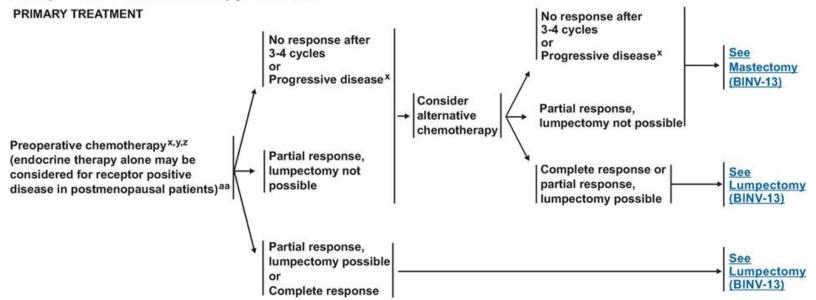




Comprehensive NCCN Guidelines™ Version 2.2011 Cancer Network® Invasive Breast Cancer

NCCN Guidelines Index Breast Cancer Table of Contents Staging, Discussion

Preoperative Chemotherapy Guideline





Comprehensive NCCN Guidelines™ Version 2.2011 Cancer Network® Invasive Breast Cancer

NCCN Guidelines Index Breast Cancer Table of Contents Staging, Discussion

Preoperative Chemotherapy Guideline

CLINICAL STAGE

WORKUP

General workup including: · History and physical · CBC, platelets Liver function tests and alkaline phosphatase Diagnostic bilateral mammogram, ultrasound as necessary Stage IIA Pathology review^a T2, N0, M0 Determination of tumor ER/PR status and HER2 status^b · Genetic counseling if patient is high risk for hereditary breast cancerc Stage IIB Optional additional studies for breast imaging: T2, N1, M0 · Breast MRId T3, N0, M0 See Primary If clinical stage IIIA (T3, N1, M0) consider: Stage IIIA **Treatment** Bone scan (category 2B) T3, N1, M0 **BINV-11**) Abdominal ± pelvis CT or US or MRI Chest imaging and Optional studies as directed by signs and symptoms: Fulfills criteria for breast · Bone scan indicated if localized bone pain or elevated alkaline phosphatase Abdominal ± pelvis CT or US or MRI if elevated alkaline phosphatase, abnormal conserving surgery except for tumor size liver function tests, abdominal symptoms, abnormal physical examination of the abdomen or pelvis Chest imaging (if pulmonary symptoms are present) • FDG PET/CT scan (category 2B)e Consider fertility counseling if indicated^f

CHT neoadj in LABC

Printed by M.Sofia Rosati on 1/4/2011 5:54:16 AM. For personal use only. Not approved for distribution. Copyright © 2011 National Comprehensive Cancer Network, Inc., All Rights Reserved

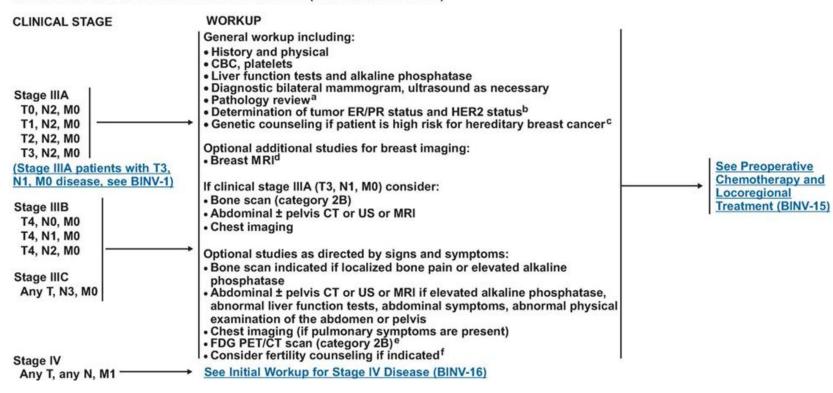


National Cancer

Comprehensive NCCN Guidelines™ Version 2.2011 Invasive Breast Cancer

NCCN Guidelines Index Breast Cancer Table of Contents Staging, Discussion

LOCALLY ADVANCED INVASIVE BREAST CANCER (NON-INFLAMMATORY)





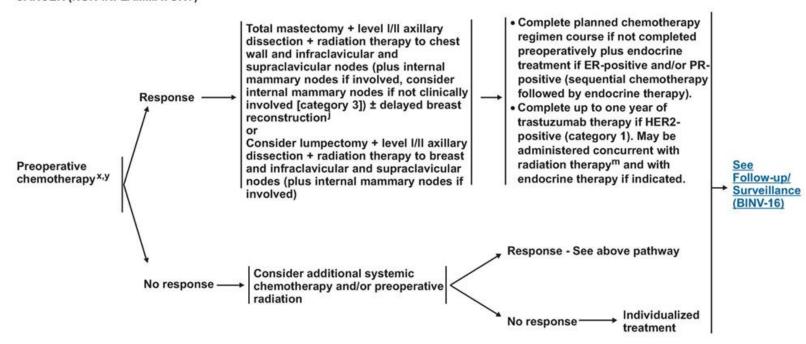
Comprehensive NCCN Guidelines™ Version 2.2011 Cancer Network* Invasive Breast Cancer

NCCN Guidelines Index
Breast Cancer Table of Contents
Staging, Discussion

PREOPERATIVE CHEMOTHERAPY FOR LOCALLY ADVANCED INVASIVE BREAST CANCER (NON-INFLAMMATORY)

LOCOREGIONAL TREATMENT

ADJUVANT TREATMENT



^mSee Principles of Radiation Therapy (BINV-I).

See Principles of Reconstruction Following Surgery (BINV-H).

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any cancer patient is in a clinical trial. Participation in clinical trials is especially encouraged.

^{*}A number of combination and single agent chemotherapy regimens have activity in the preoperative setting. Those chemotherapy regimens recommended in the adjuvant setting (<u>See BINV-K</u>) may be considered in the preoperative setting. If treated with endocrine therapy, an aromatase inhibitor is preferred for postmenopausal women.

YPatients with HER2-positive tumors should be treated with preoperative chemotherapy incorporating trastuzumab for at least 9 weeks of preoperative therapy (See BINV-K).

RT: quando?

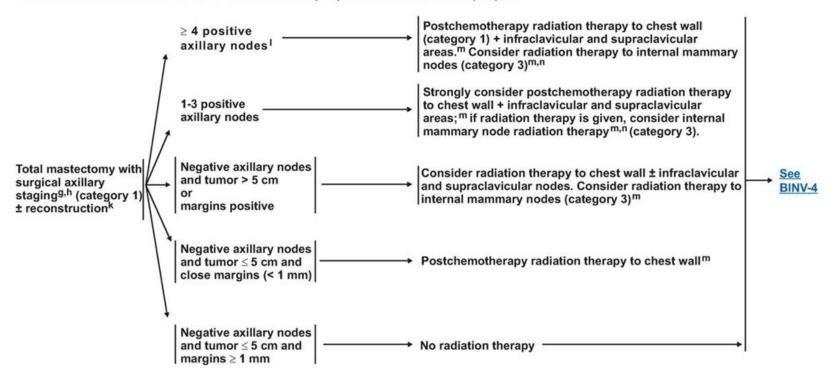
Printed by M.Sofia Rosati on 1/4/2011 5:54:16 AM. For personal use only. Not approved for distribution. Copyright © 2011 National Comprehensive Cancer Network, Inc., All Rights Reserved.



Comprehensive NCCN Guidelines™ Version 2.2011 Cancer Network* Invasive Breast Cancer

NCCN Guidelines Index Breast Cancer Table of Contents Staging, Discussion

LOCOREGIONAL TREATMENT OF CLINICAL STAGE I, IIA, OR IIB DISEASE OR T3, N1, M0



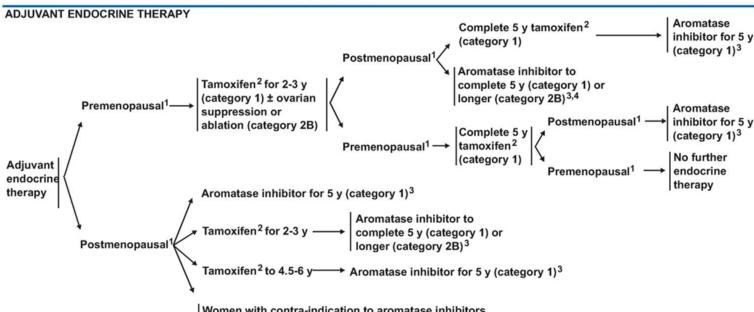
Ormonoterapia

Printed by M.Sofia Rosati on 1/4/2011 5:54:16 AM. For personal use only. Not approved for distribution. Copyright © 2011 National Comprehensive Cancer Network, Inc., All Rights Reserved.



Comprehensive NCCN Guidelines™ Version 2.2011 Invasive Breast Cancer

NCCN Guidelines Index **Breast Cancer Table of Contents** Staging, Discussion



Women with contra-indication to aromatase inhibitors, who decline aromatase inhibitors or who are intolerant of the aromatase inhibitors, tamoxifen for 5 y (category 1)

ALERT (need to know!!!!)

CYP2D6 e TAM

- ATAC (anastrozolo)
- BIG 1-98 (letrozolo)
- IES (ITA) (exemestane)

Da San Antonio 2010....

NCIC CTG MA 27

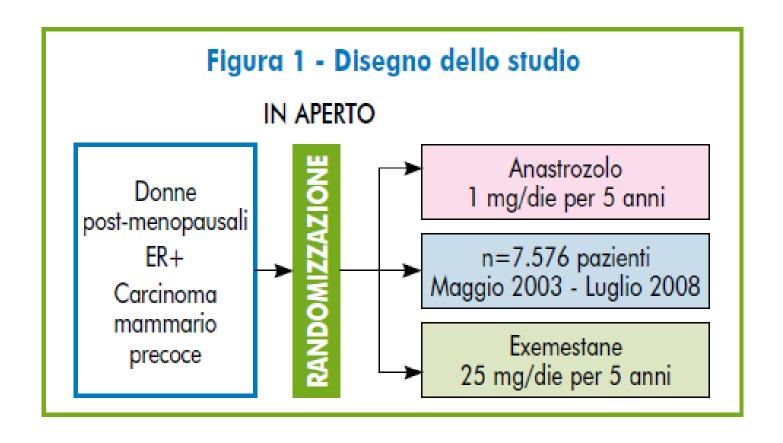


Tabella 1 - Risultati

	Stratificazione di exemestane su anastrozolo			
	Eventi (%)	Eventi (%)	HR (IC 95%)	р
EFS	350 (9,2)	343 (9,1)	1,02 (0,87-1,18)	0,85
OS	208 (5,5)	224 (5,9)	0,93 (0,77-1,13)	0,64
DDFS	157 (4,1)	164 (4,3)	0,95 (0,76-1,18)	0,46
DSS	89 (2,4)	98 (2,6)	0,93 (0,70-1,24)	0,62