# KIN SPARING MASTECTOMY-IMMEDIATE PLAST RECONSTRUCTION (MENT OF EARLY BREAST CANCER)

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# CONTENTS

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1. Introduction – Purposes

2. Patients and Methods

3. Results – Discussion

4. Conclusion

# INTRODUCTION

Changes in treatment of breast cancer

Treatment for early breast cancer:
Modified radical mastectomy
Breast conserving therapy: lumpectomy + radiotherapy
Skin sparing mastectomy - Immediate breast reconstruction

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# HISTORY

1894 : HALSTED : radical mastectomy

1948 : PATEY : modified radical mastectomy

1970 : modified radical mastectomy was popular

1980s : FISHER, VERONESI : breast conserving therapy

1980s : BOSTWICK, HARTRAMF: breast reconstruction following mastectomy

1991: TOTH & LAPPERT : skin sparing mastectomy – immediate breast reconstruction

1997- currently: many researches about complications, oncological outcomes, aesthetic outcomes of skin sparing mastectomy – immediate breast reconstruction 4

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# CONCEPTS

#### Immediate breast reconstruction

- Breast reconstruction immediately after mastectomy
- Areola-nipple reconstruction 3 months after breast reconstruction

#### **Delayed breast reconstruction**

- Breast reconstruction after complete treatment: 1 2 years
- Areola-nipple reconstruction 3 months after breast reconstruction

#### Advantages

- Better functional and aesthetic outcome.
- Local recurrent rate: similar to conventional mastectomy
- Do not increase operative complications

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# **PATIENTS - METHODS**

# Patients

One hundred and ten breast cancer cases stage 0, I, II treated by skin sparing mastectomy and

immediate breast reconstruction at Surgery

Department 4 – Ho Chi Minh City Oncology

Hospital from 5-2003 to 10-2006

### Methods

### PATIENT SELECTION

Indications Stage 0, I, II breast cancer patients who request to be treated with breast reconstruction

Contraindications Patients with high risk for reconstruction surgery Unhealthy patients

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### Methods

**RECONSTRUCTION TECHNIQUE SELECTION** 

Skin sparing mastectomy + immediate reconstruction Extended Latissimus dorsal flap: majority of patients TRAM flap: patients with big breasts, thick abdomen fat

LD flap + implant: patients with big breasts, thin abdomen fat

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Nipple and Areola reconstruction Local flap + tattoo

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# Methods OPERATIVE TECHNIQUE





### Marking before operation

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# Methods OPERATIVE TECHNIQUE

# Skin sparing mastectomy

- Remove the whole breast tissue
- Remove the biopsy scar
- Remove the areola-nipple complex
- Axillary dissection

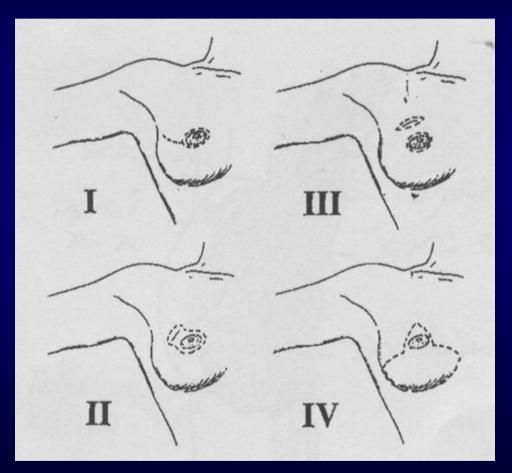
# Modified skin sparing mastectomy

- Nipple-sparing mastectomy
- Areola-sparing mastectomy

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# Methods OPERATIVE TECHNIQUE Skin sparing mastectomy



#### **Incision Selections**

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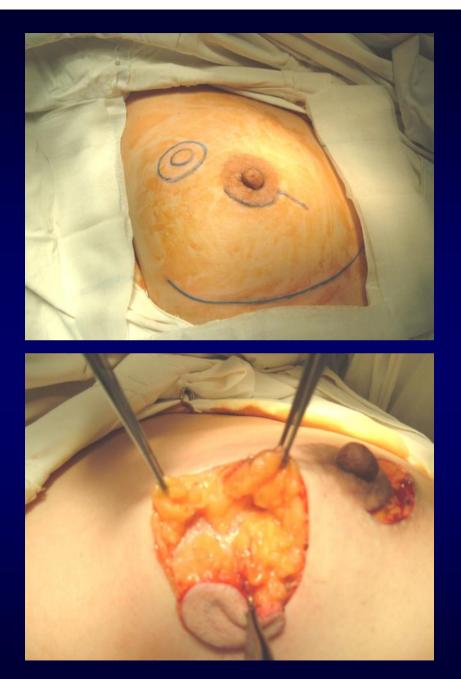


### Skin sparing mastectomy

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### Areola-nipple sparing mastectomy

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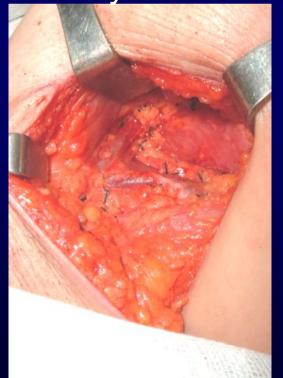




# Areola-nipple sparing mastectomy



#### **Axillary Dissection**



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# Methods TECHNIQUE



### The operative specimen

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#### Weigh and measure the volume of the operative specimen

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### Weigh and shape the flap

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# Methods TECHNIQUE





### The LD flap

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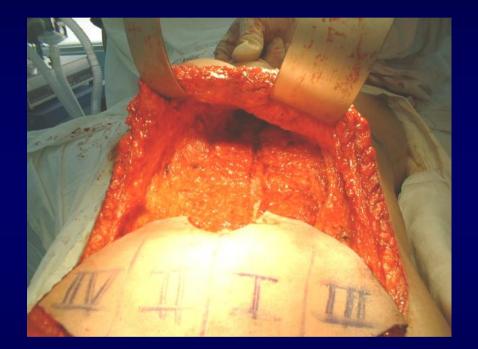


# Cut the insertion of the LD muscle

Rotate the flap and fill in the defect

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### **TRAM** flap

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Abdominal reconstruction Spare the fascia Abdominal reconstruction Use the mesh

21







### Shape the flap

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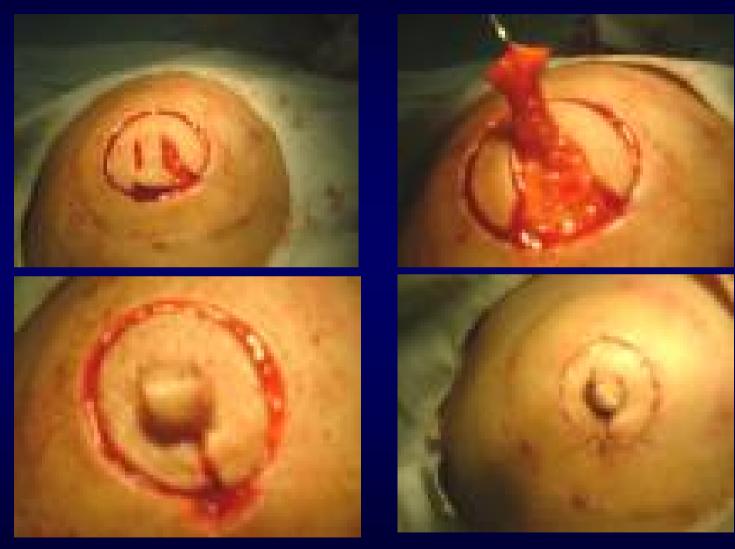
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### **TECHNIQUE**



### Nipple reconstruction with local flap

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# Methods EVALUATION

Finishing: May 30, 2006

Analyse operative techniques and complications

Analyse oncological outcome

• Evaluate aesthetic outcome: 3 doctors

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### SUBSCALE ANALYSIS OF AESTHETIC OUTCOME

- Evaluate:
  - Volume: 2 pts
  - Contour: 2 pts
  - Placement:2 pts
  - IMF:2 pts

Classification Excellent: 7 - 8 pts Good: 6 - 6,9 pts Fair:5 - 5,9 pts Poor: < 5 pts

Subscale	Category 0	Category 1	Category 2
Volume of Breast mound	Marked discrepancy relative to contralateral side	Mild discrepancy relative to contralateral side	Symetrical volume
Contour (shape) of breast mound	Marked contour deformity or shape asymmetry	Mild contour deformity or shape asymmetry	Natural of symmetrical contour
Placement of breast mound	Marked displacement	Mild displacement	Symetrical and aesthetic placement
Inframammary fold	Poorly defined/not identified	Defined but with asymmetry or lack of medial definition	Defined and symmetrical

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# **RESULTS & DISCUSSION**

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#### **RESULTS AND DISCUSSION**

# PATIENT CHARACTERISTICS

### Mean age: 39.3 (23-58)

Stage	Number	Percentage(%)
0	6	5.5
	18	16.4
IIA	56	50.9
IIB	30	27.3
Total	110	100
		27

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#### **RESULTS AND DISCUSSION**

# HISTOLOGY

### Tumor

DCIS: 6 cases (5.5%) Invasive Ductal Carcinoma: 104 cases (94.6%) NOS: 90/100 cases (90%)

Axillary nodes: negative: 73/104 cases (70.2%)
 Positive: 31/104 cases (29.8%)

# • Positive margin (+): 3/110 (2.7%)

### **INCISION SELECTIONS FOR SKIN SPARING MASTECTOMY**

	Incision	Number	Percentage (%)
		24	35.8
	II	37	55.2
		2	3
	IV	1	1.5
	Others	3	4.5
	Total	67	100
			29
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#### **RESULTS AND DISCUSSION**

#### **INCISION SELECTIONS FOR AREOLA NIPPLE SPARING MASTECTOMY**

Incision	Number	Pecentage (%)
Peritumoral incision + periareolar omega incision	22	51.2
Peritumoral incision	21	48.8
Total	43	100

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# Nipple sparing mastectomy incisions

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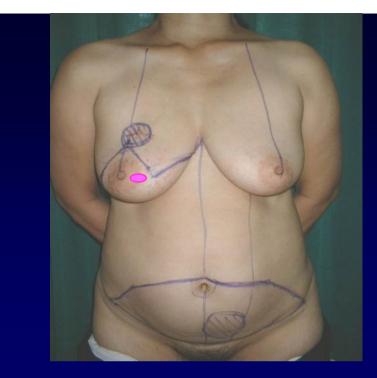
# Skin sparing mastectomy incisions

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# Skin sparing mastectomy incisions

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### Other incisions

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#### **RESULTS AND DISCUSSION**

# **Axillary Dissection**

- Separate axillary incision: 101 cases
- Extend the mastectomy incision : 3 cases

Reconstruction technique	Number	Rate (%)
Extended LD flap	87	79
TRAM flap	17	15.5
LD flap + implant	6	5.5

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# **Areolar Nipple Reconstruction**

Timing: 3 months after operation, or after complete treatment

A minor surgery

Areolar Nipple Reconstruction : 28/67 cases







### LD flap reconstruction

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### **TRAM** flap

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### **3** months after reconstruction <sub>39</sub>

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LD Flap + implant

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# **OPERATIVE CHARACTERISTICS**

- Mean of operative duration: LD: 407 minutes TRAM: 451 minutes
- Blood loss: mean: 100ml
- Withdrawn of drainage: 5-10 days

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Post-op time: 10-14 days

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# **OPERATIVE COMPLICATIONS**

COMPLICATION	SSM (%) n=43	NSM (%) n=67	TOTAL (%) n=110
Mastectomy flap necrosis	0	0	0
Skin splitting	2 (3)	1 (2.3)	3 (2.7)
Nipple necrosis		2 (4.6)	2 (1.8)
Infection		1 (2.3)	1 (0.9)
Hemorrhage	3 (4.5)	1 (2.3)	4 (3.6)
Hematoma	1 (1.5)	1 (2.3)	2 (1.8)
Seroma		2 (4.6)	2 (1.8)
Total	6 (9)	8 (18.6)	14 (12.6) <sub>41</sub>

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# **FLAP COMPLICATIONS**

	LD	TRAM	Total (%)
Seroma	10	0	10 (9)
Skin splitting	4	1	5 (4,5)
Flap necrosis			
- Partial	3	1	4 (5,6%)
- Completely			
Hemorrhage	1		1 (1,1)
Hematoma	1	1	2 (4,8)
Infection		1	1 (0,9)
Abdominal bulge		4	4 (5,6)
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# **Complication: flap necrosis**



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# Adjuvant therapy

Adjuvant therapy	n	(%)
Chemotherapy	82/104	78.8
Radiotherapy	46/104	44.2
Hormonotherapy	69/110	62.7
None	3/93	2.7

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Breast reconstruction and adjuvant therapy

Mean of duration from reconstruction and chemotherapy: 28,7 days.

Radiotherapy: no complication increasing or aesthetic affection

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#### **Pre-operative**



#### **Post-operative**





### After chemotherapy

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### After radiotherapy

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### Local recurrence after Skin Sparing mastectomy

Authors	Year	Number	Local Recurrence %	Duration of follow up (months)	Note
Slavin et al	1998	51	2.0	45	26 DCIS
Newman et al	1998	372	6.2	26	T1/T2
Simmons et al	1999	77	3.9	60	
Toth et al	1999	50	0	51.5	
Kroll et al	1999	114	7.0	72	T1/T2
Rivadeneria et al	2000	71	5.1	49	
Foster et al	2002	25	4.0	49	
Medina-Franco et al	2002	176	4.5	73	
Spiegel and Butler	2003	177	5.6	118	
Carlson et al	2003	539	5.5	65	30,6% DCIS
Gerber et al	2003	112	5.4	59	
HCM City Cancer Hospital	2008	110	3.6	40	5,4% DCIS 47

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## Local recurrence after Skin-sparing mastectomy and non-skin sparing mastectomy

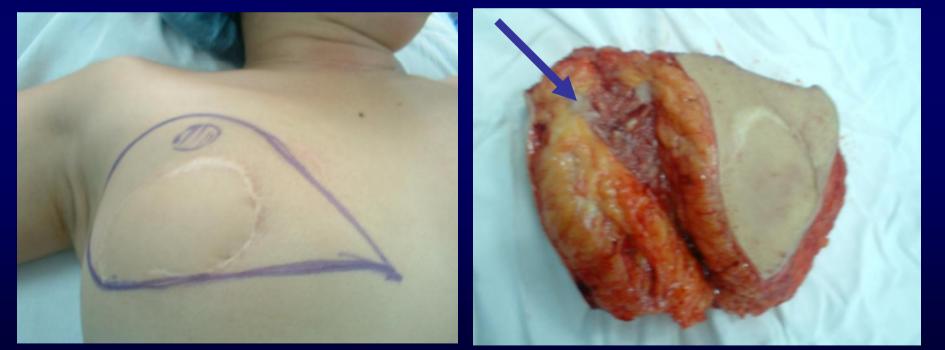
Authors	Number	Local	recurrence rate
SIMMON 2000		SSM	NSSM
	231	5.6%	3.9%
CARLSON 1998	271	4.8%	9.5 %
NEWMAN 1998	437	6.2%	7.4%
ĐẶNG HUY QUỐC THỊNH 2002	712		14.7% (stage I:2.5%, stageII: 12.2%)
			48
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- Local recurrence: 4 cases(3,6%)
- Location: skin-subcutaneous tissue: 2 cases(1 wide excision, 1 mastectomy)

Chest wall:1 case (mastectomy) Axillary node: 1 case (wide excision)



#### Naëg ThòTuyetaL. age: 46

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Chest wall recurrence

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# **Metastasis-Survival**

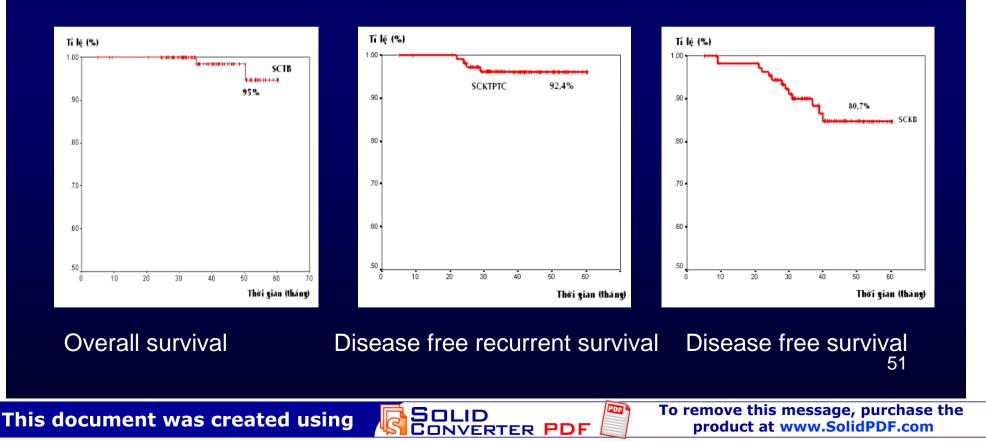
 -10 cases (9.1%) with metastasis, one has local recurrence

Mean of duration of metastasis:
 27.3months (9-58)

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# Survival (4 years)

- 4 year OS: 95%
- 4 year DFRS : 92.4%
- 4 year DFS: 80.7%



### **RESULTS AND DISCUSSION AESTHETIC RESULTS**

- HIDALGO: 21 cases:Excellent-Good: 75%
- GABKA 17 cases : Excellent-Good: 100%
- Ho Chi Minh City Oncology Hospital (2003 2008) :

	Number	Percentage
Excellent	65	61.9
Good	19	18.1
Fair	16	15.2
Poor	5	4.8
Total	105	100
	Reduce revision rate	
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# CONCLUSION

Skin sparing mastectomy-immediate breast reconstruction is safe with low rate of complication and local recurrence, not affect adjuvant therapy

Extended LD flap is appropriate to majority of Vietnamese patients, TRAM flap is for women with big breast and thick abdominal fat, LD flap + implant is for women with big breast and thin abdominal fat

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Good aesthetic result

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# THANK YOU

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