

IMPACT OF LYMPHATIC MICROSURGICAL PREVENTING HEALING APPROACH (LYMPHA) ON POSTOPERATIVE COMPLICATION RATES IN IMMEDIATE PROSTHETIC BASED BREAST RECONSTRUCTION: A RETROSPECTIVE COHORT STUDY

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INTRODUCTION

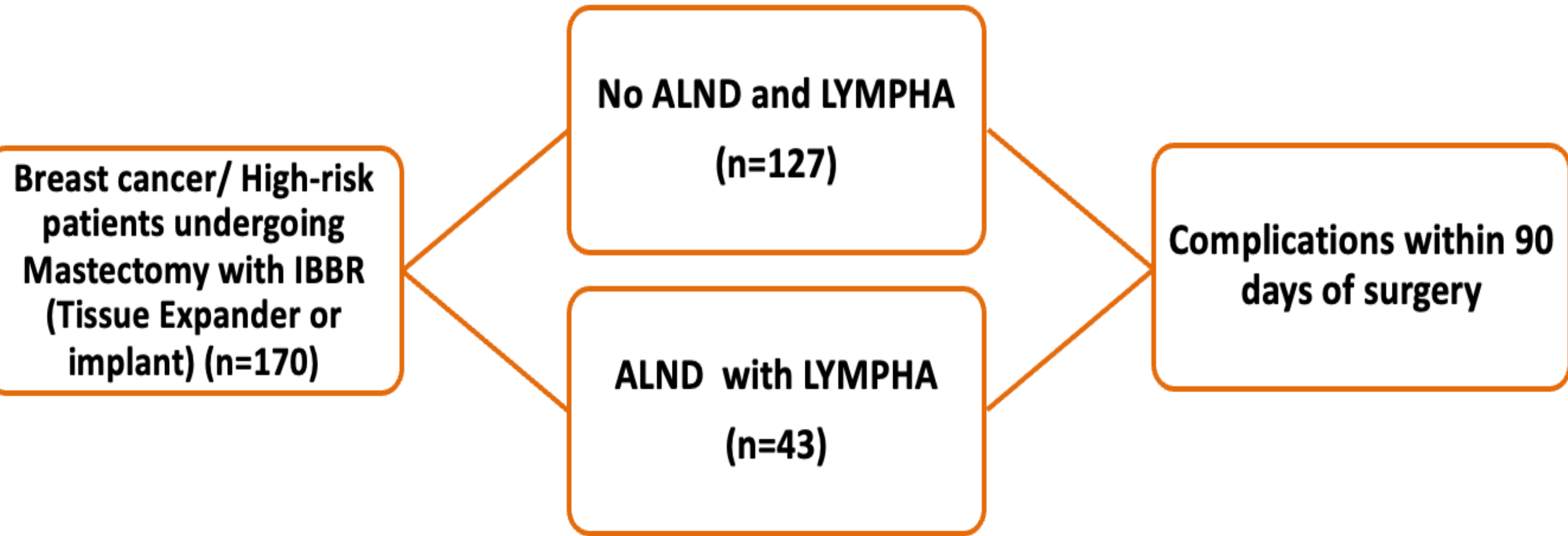
- Lymphatic Microsurgical Preventing Healing Approach (LYMPHA) is a prophylactic microsurgical technique performed at the time of axillary lymph node dissection (ALND) reducing the rate of lymphedema by 70 %
- Breast reconstruction: 151,641 (2022) vs 135,996 (pre-pandemic): 12% increase. Most reconstruction procedures in the United States (81%) are implant-based
- Mastectomy with ALND is followed by Immediate Implant Based Breast Reconstruction (IBBR). Ideally, LYMPHA should be performed with every ALND
- Lack of literature on outcomes when both procedures are performed together

AIM

To compare the rate of surgical site complications within 90 days of surgery in patients undergoing Mastectomy and Immediate IBBR with and without ALND and LYMPHA

METHODS

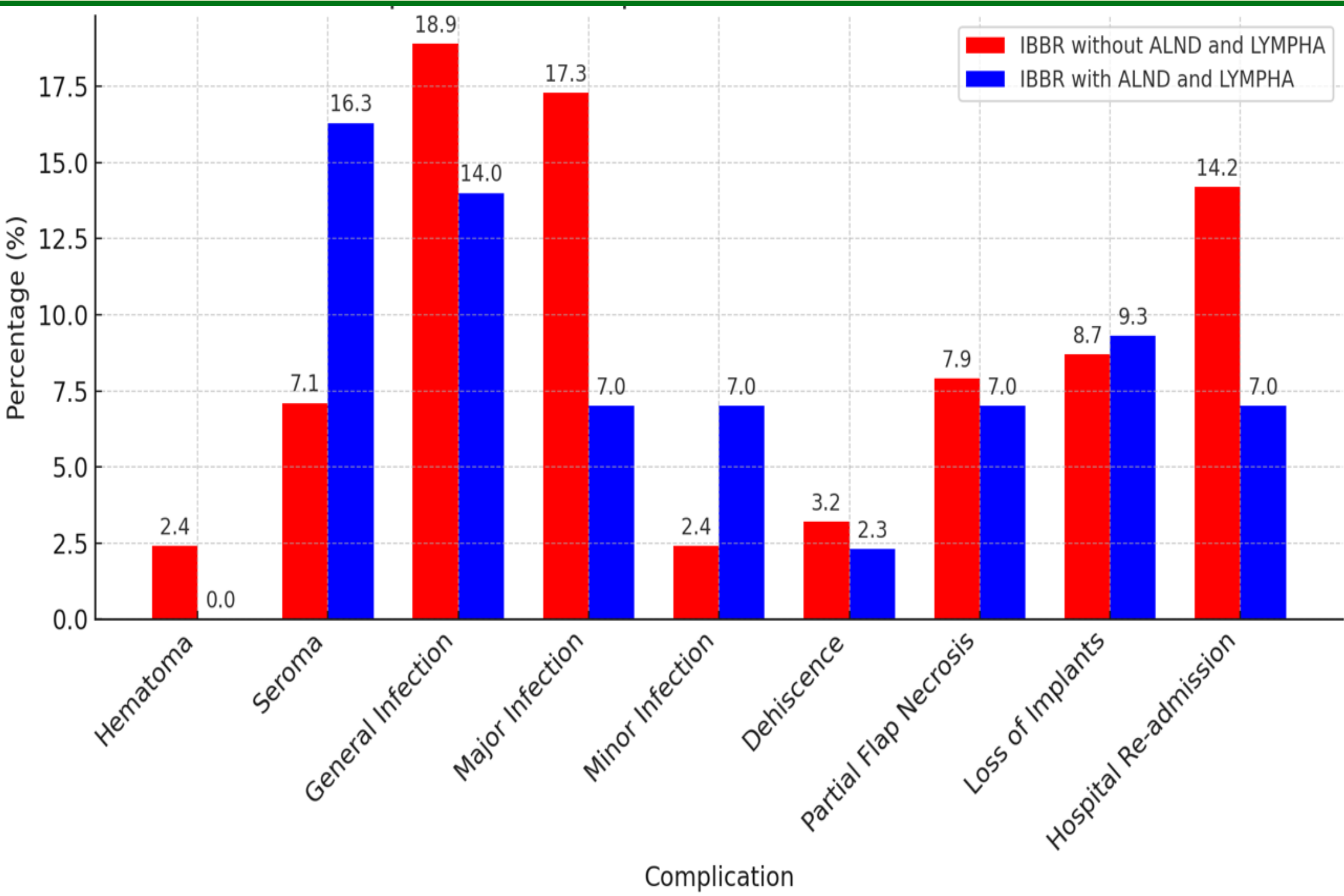
- Study Design:** Retrospective Cohort Study
- Time-Period:** April 2021 and August 2023
- Follow-up Period:** 90 days after surgery
- Location:** Single Institution - University of Miami



RESULTS

	IBBR without ALND and LYMPHA (n,%)	IBBR with ALND and LYMPHA (n,%)	p value
Age mean (SD)	48.8 [10.1]	49.2 [11.7]	0.86
BMI mean (SD)	25.8 [4.7]	27.5 [4.9]	0.06
Race			
White	112, 88.2%	36, 83.7%	0.80
Asian	1, 0.8%	2, 4.7%	
Black	14, 11.0%	5, 11.6%	
Ethnicity			
Non-Hispanic	53, 41.7%	17, 39.5%	0.98
Hispanic	74, 58.3%	26, 60.5%	
Cancer Stage			
0 (DCIS)	23, 18.1%	0	<0.001
I	58, 45.7%	1, 2.3%	
II	31, 24.4%	12, 27.9%	
III	14, 11.0%	30, 69.8%	
IV	1, 0.8%	0, 0%	
Neo-adjuvant chemotherapy			
Yes	35, 27.6%	34, 79.1%	<0.001
No	92, 72.4%	9, 20.9%	
Type of Mastectomy			
SSM	86, 67.7%	36, 83.7%	0.16
-Periareolar Incision	74, 58.3%	33, 76.7%	
-Wise pattern Incision	12, 9.4%	3, 7.0%	
NSM	41, 32.3%	7, 16.3%	
-Radial Incision	10, 7.9%	2, 4.7%	
-Inframammary Incision	31, 24.4%	5, 11.6%	
Anesthesia Time in minutes Mean [SD]	355.2 [97.2]	513.9 [100.7]	<0.001
Type of Reconstruction			
TE	60, 47.2%	13, 30.2%	0.05
DTI	67 52.8%	30, 69.8%	

- There was no statistically significant difference in overall complications (39,30.7% vs 13,30.2%) or any individual complication



CONCLUSION

- Overall number of complications did not show a statistically significant difference.
- LYMPHA with ALND along with IBBR does not increase the risk of postoperative complications.
- LYMPHA can be safely performed with IBBR when ALND is needed to reduce morbidity (Breast Cancer-Related lymphedema)