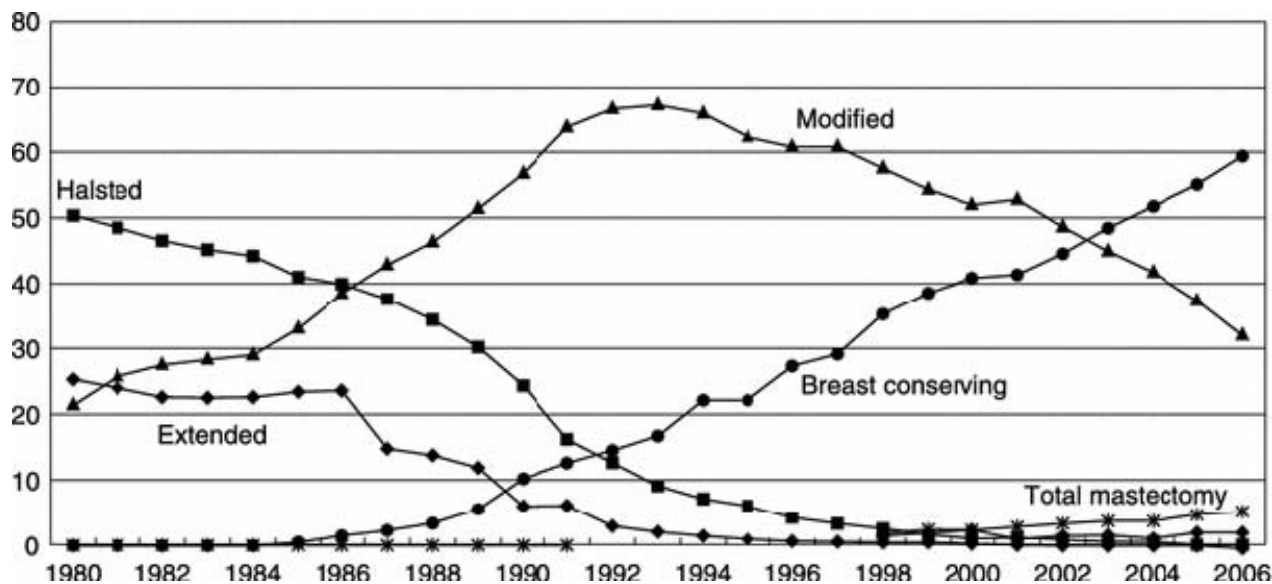


Changing trends in surgical procedures for breast cancer in Japan. The questionnaire survey was accomplished with the cooperation of 352 institutions



Reference: Hiroshi Sonoo, et.al; Results of questionnaire survey on breast cancer surgery in Japan 2004–2006. Breast Cancer 15: 3-4, 2008.

Breast cancer surgery 1995–2006

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
No. of institutions	313	313	313	368	368	368	311	311	311	352	352	352
Extended	156	133	87	110	118	106	59	52	51	61	51	34
Halsted radical	839	558	450	452	289	225	195	163	117	86	86	68
Modified	7,866	8,021	8,516	10,084	9,966	10,204	9,265	8,768	9,258	9,918	9,772	9,151
Breast conserving ^a	2,794	3,616	4,088	6,192	7,074	7,973	7,226	8,016	9,890	12,200	14,293	16,587
With radiation	1,885	2,508	2,959	4,328	4,975	5,739	5,332	5,964	7,309	9,732	11,563	13,666
Without radiation	850	1,032	1,074	1,567	1,770	1,834	1,653	1,840	2,200	2,128	2,289	2,561
Total mastectomy	398	249	286	344	443	475	538	611	748	971	1,241	1,507
Others	487	586	568	379	471	571	217	300	353	352	521	619
Total	12,540	13,163	13,995	17,561	18,361	19,554	17,500	17,910	20,417	23,588	25,964	27,966

^a Including insufficient information regarding radiation

Reference: Hiroshi Sonoo, et.al; Results of questionnaire survey on breast cancer surgery in Japan 2004–2006. Breast Cancer 15: 3-4, 2008.

Investigative Report on Registration of Breast Cancer Patients in Japan: 2006

1. The number of cases in 2006

20,510 cases

2. Sex

	n	%
Female	20,412	99.5
Male	97	0.5
Total	20,510	

3. Breast cancer patients with family history

	n	%
Without	17,363	85.1
With	1,787	8.8
Unknown	1,262	6.2
Total	20,412	

4. Menstruation status

	n	%
Premenopausal	7,085	34.7
Postmenopausal	12,780	62.6
Unknown	547	2.7
Total	20,412	

5. Age distribution

	n	%
0-19	3	0.0
20-24	13	0.1
25-29	95	0.5
30-34	488	2.4
35-39	1,011	5.0
40-44	1,903	9.3
45-49	2,672	13.1
50-54	2,620	12.8
55-59	3,154	15.5
60-64	2,549	12.5
65-69	2,013	9.9
70-74	1,580	7.7
75-79	1,204	5.9
80-84	669	3.3
85-89	260	1.3
90-	98	0.5
Unknown	80	0.4
Total	20,412	
Average	57.2	
Median	57.0	

6. Stage

	n	%
0	1,817	8.9
	7,232	35.4
A	5,344	26.2
B	2,012	9.9
A	618	3.0
B	693	3.4
C	135	0.7
	468	2.3
Unknown	2,093	10.3
Total	20,412	

Note: Based on General Rules for Clinical and Pathological Recording of Breast Cancer 15th Edition (The Japanese Breast Cancer Society)

7. Surgical procedure

	n	%
Without	28	0.1
Breast conservation	11,659	57.9
Total mastectomy	1,494	7.4
Modified radical mastectomy	6,626	32.9
Radical mastectomy	7	0.4
Others	253	1.3
Unknown	5	0.0
Total	20,136	

8. Axillary node dissection

	n	%
Not	1,365	6.8
> Level 1	10,602	52.7
Sentinel node only	7,651	38.0
Sampling	436	2.2
Others	57	0.3
Unknown	25	0.1
Total	20,136	

9. Size of primary lesion

Tumor size (cm)	n	%
0	1,070	5.2
~ 0.5	1,188	5.8
0.6 ~ 1.0	2,407	11.8
1.1 ~ 2.0	7,053	34.6
2.1 ~ 3.0	3,931	19.3
3.1 ~ 4.0	1,458	7.1
4.1 ~ 5.0	741	3.6
5.1 ~	1,123	5.5
Unknown	1,441	7.1
Total	20,412	

10. Number of lymph node matastases

	n	%
0	12,689	62.2
1 ~ 3	4,229	20.7
4 ~ 9	1,191	5.8
10 ~	662	3.2
Unknown	1,641	8.0
Total	20,412	

11. ER

	n	%
+	15,109	74.0
-	4,785	23.4
No examination or uncertain	518	2.5
Total	20,412	

12. PgR

	n	%
+	12,144	59.5
-	7,721	37.8
No examination or uncertain	547	2.7
Total	20,412	

13. HER2

	n	%
+	2,837	13.9
-	15,612	76.5
No examination or uncertain	1,963	9.6
Total	20,412	

14. Histological type

	n	%
Ductal carcinoma in situ	2,384	11.7
Lobular carcinoma in situ	40	0.2
Invasive papillary carcinoma		
Papillo tubular carcinoma	5,352	26.2
Solid-tubular carcinoma	3,293	16.1
Scirrhus carcinoma	6,533	32.0
Unknown / mixed subtype	669	3.3
Special type		
Mucinous carcinoma	590	2.9
Medullary carcinoma	87	0.4
Invasive lobular carcinoma	610	3.0
Adenoid cystic carcinoma	21	0.1
Squamous cell carcinoma	35	0.2
Spindle cell carcinoma	24	0.1
Apocrine carcinoma	219	1.1
Carcinoma with cartilaginous	25	0.1
Tubular carcinoma	48	0.2
Secretory (juvenile) carcinoma	4	0.0
Others	164	0.8
Paget's disease		
Non invasive	49	0.2
Invasive	22	0.1
Sarcoma		
Cystosarcoma phyllodes	13	0.1
Carcinosarcoma	0	0.0
Interstitial sarcoma	1	0.0
Lymphoma	8	0.0
Others	11	0.1
Unknown	210	1.0
Total	20,412	

Note: Based on General Rules for Clinical and Pathological Recording of Breast Cancer 15th Edition (The Japanese Breast Cancer Society)