Breast cancer early disease Tuesday 14 September 1999 S211

almost always in the second stage (II). Breast reconstruction in Egypt is always accompanied by reduction mammoplasty of the other breast. The new method utilizes a myomammary flap from the other side this flap depends on the other breast being of moderate or large size.

Patient's and Methods: A total of 40 female patients were submitted for breast reconstruction using a pectoralis major myocutaneous flap from the other relatively large breast. The flap depended on a blood supply from the pectoral branch of the thoracoacromial artery. The flap being transferred on the pedicle of the pectorals major tunneled under the skin. The new technique utilizes the nipple on the healthy side to reconstruct the nipple of the new breast at the same time. A reduction mammoplasty was achieved in healthy contralateral huge breast.

Results: Good cosmetic results were achieved in 60% of cases, fair results in 25%, and unsatisfactory in 15%.

Conclusion: this new technique of breast reconstruction is suitable especially for patients with large, healthy breasts and for relatively poor patients.

826 PUBLICATION

Complications after level 1, 2 axillary dissection without division of pectoralis minor

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Purpose: most data on complications after axillary dissection regard level 1, 2, 3 clearance with division of pectoralis minor. The prophylactic dissection carried out at the Royal Marsden NHS Trust as in other Centres today consists of level 1 and 2 without division of pectoralis minor.

Method: analysis of the complications in 200 patients so treated.

Results: 38% of patients developed a seroma (30% required aspirations); 15% had transient lymphoedema (LE); 8% complained of tighter rings and 2.5% had problems with clothing; 17% had restriction of shoulder movements; 85% had numbness and this was slight in 58%, moderate in 33% and total in 4%.

90% of patients had no clinical evidence of LE, 5% of patients thought they had LE but the doctor and the nurse disagreed; 5% of patients had clinical LE. Measurements taken 15 cm above olecranon, 10 cm below olecranon and at the metacarpo-phalangeal joints showed a >5% increase in 13% (15 cm), 12% (10 cm), 15% (metacarpals), 7% (total arm), and a >10% increase in 1% (15 cm), 3% (10 cm), 0.5% (metacarpals), 0% (total arm). Differences in centimetres were:

	15 cm	10 cm	Metacarpals	
No difference (0-1 cm)	68%	70%	82%	
1-1.9 cm (minimal)	18%	18%	16%	
2-2.9 cm (mild)	11%	8%	0.5%	
3-3.9 cm (moderate)	1%	2.5%	0	
> 4 cm (severe)	0.5%	0.5%	0	

Conclusions: Level 1, 2 axillary dissection has in our experience a lesser incidence of lymphoedema than complete axillary dissection.

827 PUBLICATION

Follow-up of postirradiation side effects after breast conserving surgery (BCS): Presentation of a new scoring system based on MRI findings

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Purpose: To establish an objective method for evaluation the extent, topography and quantity of skin and soft tissue side effects after radiotherapy (RT) of the conserved breast and to compare the sequales of different radiation methods.

Methods: 48 patients operated on for breast cancer recieved postoperative RT 1. 50 Gy teletherapy + 10–16 Gy electron boost (12), 2. 50 Gy teletherapy + 10–15 Gy brachytherapy (BT) boost (13), 3. 46–50 Gy teletherapy (12), 4. 36.4 Gy sole HDR-BT (11). The post-RT side effects were examined by MRI, mammogram (MGR), ultrasound (US) and physical examination, MRI was performed on a 0.5 T double breast coil with SE-T1, SE-T2 and 3D-GE sequences. The findings of MKI and MGR were compared to physically detectable side effects using the RTOG/EORTC late radiation morbidity scoring scheme.

Results: US is useful only in the diagnosis of fat necrosis. MGR and physical examination are subjective and low specificity methods to evaluate

post-RT side effects. MRI is a suitable and more objective method to detect the real extent and quantity of skin thickening and fibrosis. The differences between the side effects of whole breast RT and sole BT are also clearly demonstrated.

Conclusion: The authors established the MRI criteria for categorization the extent and grade of skin thickening and fibrosis. Breast MRI is an objective toot for assisting to the evaluation of the side effects of postoperative RT. BT alone after BCS is feasible without compromising cosmetic results.

828 PUBLICATION

Analysis of loco-regional failure pattern according to the radiation volume after conservative breast cancer treatment

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Purpose: To determine the optimum radiotherapy (RT) volume in the primary RT for early breast cancer, we analyzed loco-regional failure pattern.

Materials and Methods: In 1991–1995, 264 patients with stage I, II breast cancer were treated with breast-conserving surgery & primary RT. In N0 or <4 involved ALN, RT volume was involved breast alone with tangential technique. In \geq 4 involved ALN, ipsilateral supraclavicular fossa (SCF) was also irradiated and in cases with inadequate ALN dissection or perinodal tumor extension, axillary fossa was included in the SCF field with posterior axillary boost (45–50.4 Gy). Supplemental dose to the primary tumor sites was 10–20 Gy.

Results: During the FU periods (median 38 mo), 30 patients recurred. 5-year disease-free survivals of stage I, IIA, & IIB were 93%, 87.2%, & 61.2% respectively. There were 6 LR alone, 13 DM alone, 5 supraclavicular lymph node recurrences (SCLR) alone, 4 LR + DM, & 2 DM + SCLR. There was no axillary recurrence. Four cases among 16 with >8 involved ALN recurred at breast skin. SCLR were more common in the inner quadrant location.

Conclusion: Axillary RT is not necessary in the cases who received adequate ALND. In cases with > 8 involved ALN, skin recurrence was a major LR pattern. Therefore, application of skin bolus should be considered. If the tumor location is inner quadrant, SCF RT can be considered to reduce SCL recurrence, even though axillary lymph nodes are not involved.

829 PUBLICATION

Management of impalpable breast lesions in Greece

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Purpose: Localization biopsy for impalpable breast lesions imaged by mammography is a means of accurately excising the suspicious lesions and avoiding an unnecessarily large biopsy. The results of a prospective study are evaluated here.

Methods: In the last 8 years, 131 women underwent a needle localization breast biopsy (NLBB) for impalpable breast lesion. The mean age was 50.6 years (range 33 to 75). Ten of them belonged in the third age (>65 years old). The mammographic presentation of the lesion was categorized as follows:

Category 1: Suspicious microcalcifications (clustered or other)

Category 2: Stellate lesion with microcalcifications

Category 3: Stellate lesion without microcalcifications

Category 4: Suspicious lesion (opacity-mass or developing density – with ill-defined borders) with microcalcifications

Category 5: Suspicious lesion without microcalcifications

Category 6: Distortion of the normal architectural pattern, striking asymmetry.

The Kopans localization needle and hookwire was applied in all instances with the aid of a special mammographic grid.

Results: The application of the method yielded a total of 25 breast cancers, that is 19.2%. The majority of Stage I and in situ carcinomas were classified on mammographic Category 4. The final staging of the patients found to have a breast cancer was: 6 pts Stage I, 4 pts Stage IIA, 1 pt Stage IIB, 3 pts Stage IIIA, 2 pts Stage V, 2 pts lobular in situ and 7 pts ductal in situ carcinomas. Six out of them underwent conservative surgery and another ten total mastectomy with standard axillary disection. The in situ carcinomas were treated initially with simple mastectomy (4 pts) and conservative surgery plus radiotherapy (5 pts) thereafter.

Conclusion: Needle localization biopsy for suspicious impalpable breast lesions yields a high percentage (19.2%) of breast cancer. This is accor-

dance with other previous series with a quoted American National average of 15%. The majority of Stage I and in situ carcinomas was presented as a suspicious lesion (opacity-mass or developing density – with ill-defined borders) with microcalcifications.

830 PUBLICATION

Uracil-ptegafur (UFT) + Prednimustine (P) as an oral adjuvant treatment for premenopausal women with node positive breast cancer

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In 1997 the Grupo Oncológico de Sevilla reported on a trial of oral adjuvant treatment for premenopausal women with node-positive breast cancer using (P), 60 mg/m2 for 7 days every 4 weeks for 6 cycles, and (UFT) 400 mg/day in two divided doses continuosly for 24 weeks. They randomly compared this treatment vs Cyclophosphamide, 600 mg/m², Methotrexate, 40 mg/m² and 5-fluoruracil, 600 mg/m2, (CMF) once every 4 weeks for 6 cycles, and after a median follow up of 5 years they didn't find any difference in disease free survival (DFS) or overall survival (OS) nor in the whole group nor in the groups defined by the number of axillar involved nodes. The toxicity had a low profile. (Oncology, 1997, 11 (9 suppl 10), 74-81). We report now, after a median follow up of 7 years, on the group of patients from our Hospital that were involved in this trial. They were 105 premenopausal women, 54 included in the arm CMF and 51 in the arm P + UFT. Their characteristics (age, stage, number of involved nodes) were similar although in the CMF arm the patients were younger, but this hadn't any effect in the survival curves. Again there were no differences in the outcome of both arms, as much in DFS as in OS, and the same in the whole group as in the groups with 3 or less or more than 3 involved nodes.

We conclude that UFT + P is as active as the CMF as used in this trial, and it could be useful in patients who are inelegible for intravenous therapy or simply prefer oral administration.

831 PUBLICATION

A single centre experience of adjuvant doxorubicin-CMF chemotherapy for multiple node positive breast cancer

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Sequential doxorubicin and CMF chemotherapy (Bonadonna et al JAMA 1995;542–547) has the best non-myeloablative medium and long term result in the treatment of multiple node (N) positive breast cancer. Over 4 years, 75 patients (pts) (median age 48, range 26–62) with operable multiple N positive breast cancer (median 10 N; 3N, 2 pts; 4–9 N, 35 pts; 10+ N, 38 pts) were treated with doxorubicin 75 mg/m² × 4 followed by i.v. CMF (cyclophosphamide 600 mg/m², 5-FU 600 mg/m² and methotrexate 40 mg/m²) both q21 days. Tamoxifen 20 mg/day was given to 57 ER positive pts on completion of chemotherapy. Standard adjuvant locoregional radiotherapy was given to 61 pts.

The projected overall survival (OS) is 95% at 3 years for the 4–9 N group and 70% for the 10+ group (p = 0.027) similar to that reported by Bonadonna. Grade, ER and use of Tamoxifen are not significant for survival. Disease free survival at 3 years for the same groups are 62% and 60%. Site of relapse was local in 8 and distant (with or without local) in 18. Local control at 3 yrs is 80%. Toxicity was predictable and acceptable with no deaths and no observed clinical cardiac toxicity. There was no difference in OS for 18 pts who were receiving sequential doxorubicin and CMF as the control arm of the Anglo-Celtic Group trial compared with the 57 pts receiving sequential doxorubicin and CMF as standard therapy.

Endocrine tumours

POSTER

Current treatment for papillary carcinoma of the thyroid in the US and Germany: Report on 5612 cases

832

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Purpose: There is no complete agreement on treatment modalities for differentiated thyroid cancer, especially for patients at low risk.

This includes the extent of surgical procedures as well as the indication for adjuvant radio-iodine therapy.

Methods: In order to compare and evaluate the management of patients with thyroid cancer in the United States and Germany a Patient Care Evaluation Study (PCES) was carried out parallel in the year 1996. PCES are designed to monitor the quality of diagnosis, therapy, and follow-up of specific tumour diseases.

Results: 3927 patients in the US and 1685 in Germany, first diagnosed in 1996, have been included in this study. Our results indicate that patients with papillary thyroid cancer of all UICC stages, especially stage I and II, underwent more extensive turnour operations in Germany. Lobectomy was performed in only 2% of the German cases against 18% in the US for patients in stage I. Total thyroidectomy plus lateral lymph node dissection was done in 23% of the German and 7% of the American cases. 85% of the German patients with papillary thyroid cancer were receiving a combined treatment including radio-iodine, whereas in the US less than 50% of these patients were treated this way.

Conclusion: Our analysis show differences in the treatment of papillary thyroid cancer between the US and Germany, with in general an interdisciplinary and more radical approach in Germany. Long term observation within this PCES will demonstrate how variances in treatment will affect outcome.

833 POSTER

Primary treatment and survival in anaplastic thyroid carcinoma

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Purpose: Anaplastic thyroid carcinoma (ATC) is a fatal tumor despite combined treatment. The optimal sequence of treatment modalities is not known. The aim of our study was to find out if primary surgery (S) prolongs survival in comparison to combination of primary radiotherapy (RT) and/or chemotherapy (ChT).

Methods: In our retrospective study there were 79 patients (26 men, 53 women, age: 40–86 years, mean 65 years) with ATC treated at our Institute from 1972–98. Excluded were patients with distant metastases, without treatment or with survival shorter than one month. The patients were classified into (1) primary surgery group (n = 26) and (2) primary RT and/or ChT group (n = 53, among them RT and ChT enabled S in 12). Survival of both groups was compared by log rank test and group characteristics by ANOVA and χ^2 test using SPSS program.

Results: There was no difference in survival of both groups (p = 0.17). Longer survival than one year was observed in 25% of patients with primary S and in 21% of patients with primary RT and/or ChT. In comparison to primary RT and/or ChT group the patients from primary S group were younger with more frequent slow-growing, smaller and to thyroid confined tumors without regional metastases.

Conclusion: Primary S does not prolong survival in comparison to primary RT and/or ChT. This study suggests that treatment should start by RT and ChT (with S to follow if possible) because it was equally effective in locoregionally more advanced ATC than primary S in less advanced ATC.