OUTCOMES IMPROVED AFTER TOTAL MESORECTAL (TME) WORKSHOPS IN BRITISH COLUMBIA (BC) PT Phang, CE McGahan, G McGregor, JK MacFarlane, C Brown, M Raval, R Cheifetz, H Kennecke, J Hay Department of Surgery, University of British Columbia and Surgical Oncology Network, British Columbia Cancer Agency

In a province-wide audit in BC in 1996, the 4-year local rectal cancer surgery techniques and postoperative adjuvant chemoradiation. To improve these outcomes TME education workshops were held in BC in 2002 and 2003 with promotion of change to adjuvant short course preoperative radiation and surgical technique standardized to TME. To assess whether local recurrence was changed, a province-wide audit was repeated for patients treated in the year after the workshops.

In 2003-2004, 396 patients had radical resection of rectal cancers with curative intents. Redian followup was 34.5 months with 91% of patients followed for at least 2 years.

Overall the 2-year survival was 84%, disease-specific survival was 89%, pelvic recurrence was 7%, and distant recurrence was 7%, and distant recurrence was 14%. The 2 year pelvic recurrence was 10% and was significantly lower than in 1996 (P=0.03, Kaplan Meier). Overall recurrence risk was 0.57 (95% CI 0.25-0.94, Hazard ratio) compared to 1996.

We conclude that pelvic recurrence was improved after TME education and medical oncologists has been successful in improving outcomes for rectal cancer management in a with integrated strategy by surgeons and radiation and medical oncologists has been successful in improving outcomes for rectal cancer management in a with integrated strategy by surgeons and radiation and medical oncologists has been successful in improving outcomes for rectal cancer management in a with integrated strategy by surgeons and increased use of preoperative radiation and medical oncologists has been successful in improving outcomes for rectal cancer management in a with integrated strategy by surgeons and increased use of preoperative radiation and medical oncologists has been successful in improved after TME education with integrated strategy by surgeons and radiation and medical oncologists has been successful in improving outcomes for rectal cancer management in a with integrated strategy by surgeons and radiation and medical oncologists has been successful in improving outcomes for rectal cancer management in a with integrated strategy by surgeons and radiation and medical oncologists has been successful in the strategy by surgeons and radiation and medical oncologists has been successful in the strategy by surgeons and increased use of preoperative radiation and medical oncologists has been successful in the strategy by surgeons and radiation and medical oncologists has been successful in the strategy by surgeons and increased use of preoperative radiation and medical oncologists has been successful in the strategy by surgeons and increased use of preoperative radiation and medical oncologists has been successful in the strategy by surgeons and increased use of preoperative radiation and medical oncologists has been successful in the strategy by surgeons and increased use of preoperative radiation and medical oncologists has been successful in the strategy by surgeons and increased use of preoperative radiation and medical oncol population setting.

INTRODUCTION

Problem with rectal cancer outcomes in BC

4-year local recurrence in 1996 review

- Overall, 16%
- Stage 3, 27%
- 1996 rectal surgery
- Non-standardized, most likely not TME
- 1996 adjuvant therapy
- Postop chemoradiation

BC Rectal Cancer Project – Strategy to improve pelvic recurrence

- Education Workshops 2002-03 to implement change in management guidelines
- 1. Standardize adjuvant Rx to preoperative short course radiation (+ postop chemo)
- 2. Standardize surgery to TME

Questions:

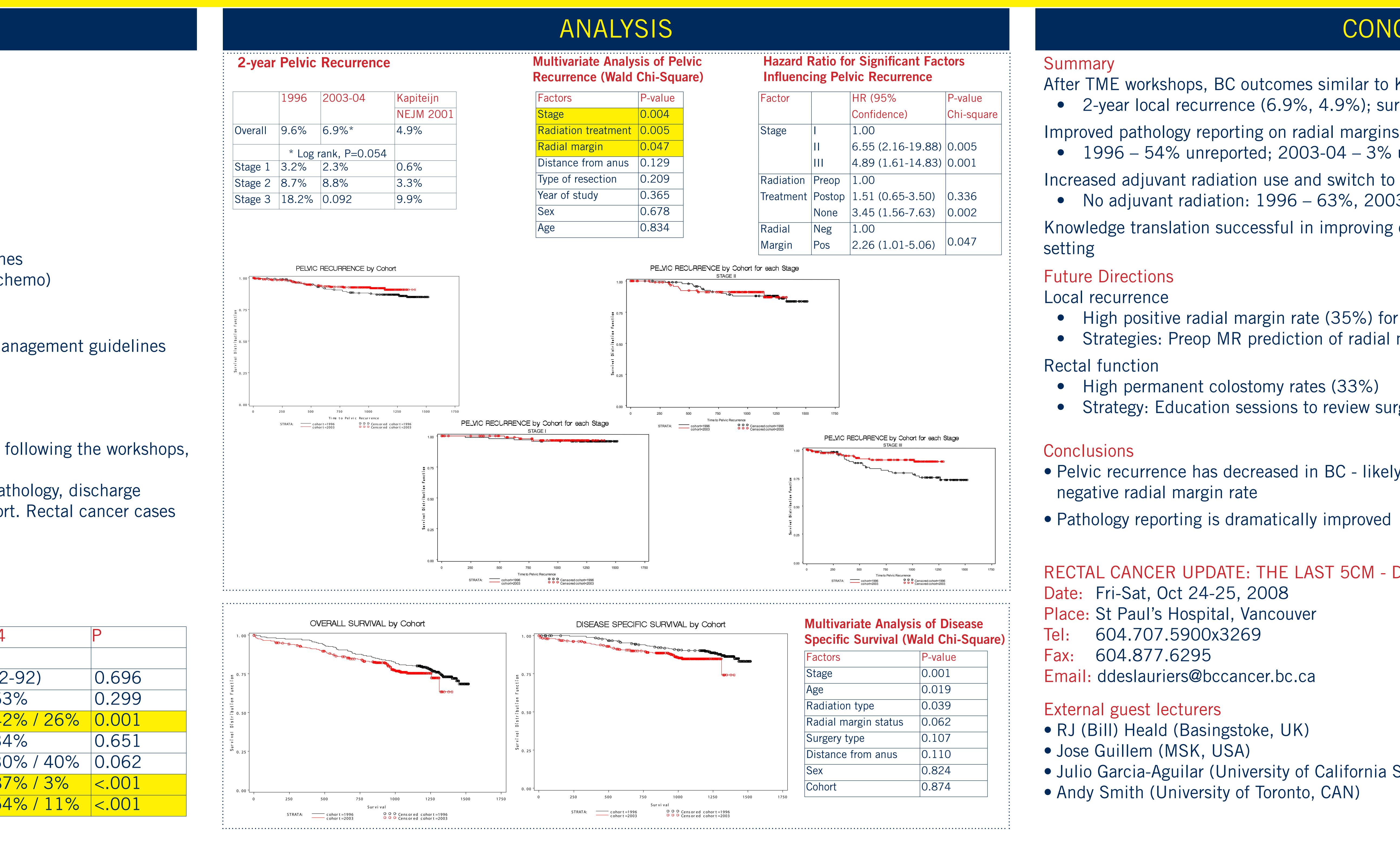
- 1. Were pelvic recurrence and survival affected by change in rectal cancer management guidelines in BC?
- 2. What factors affect pelvic recurrence and survival?

Methods:

- Inclusion: Curative resection of rectal cancer in 1996 and those in the year following the workshops, Oct 2003 to Sep 2004
- All BC hospitals' medical records departments were asked to provide OR, pathology, discharge summary for rectal cancer major resective procedures for the 2003/04 cohort. Rectal cancer cases for the 1996 data were identified from the BC Cancer Registry.
- Adjuvant radiation and chemo data from BCCA records
- Followup data questionnaires sent to GP's

Cohort Charatcteristics

	1996	2003-04
Number	283	367
Age (avg, range)	67.4 (36-95)	67.8 (32
Sex (F/M)	41% / 59%	37% / 63
Distance from anus (<5cm / 5-10cm / >10cm)	20% / 45% / 35%	32% / 42
Surgery (AR+Hartmann / APR)	64% / 36%	66% / 34
Stage (I/ II/ III)	34% / 35% / 31%	30% / 30
Radial margin (pos/ neg/ unknown)	4% / 42% / 54%	10% / 87
Radiation (%none / %preop / %postop)	63% / 4% / 33%	35% / 54



CONCLUSIONS

After TME workshops, BC outcomes similar to Kapiteijn, NEJM 2001 • 2-year local recurrence (6.9%, 4.9%); survival (89%, 87%)

Improved pathology reporting on radial margins 1996 – 54% unreported; 2003-04 – 3% unreported, p<0.0001

Increased adjuvant radiation use and switch to preoperative • No adjuvant radiation: 1996 – 63%, 2003-04 – 35%, p<0.0001

Knowledge translation successful in improving outcomes for rectal cancer management in a population

• High positive radial margin rate (35%) for distal third rectal location • Strategies: Preop MR prediction of radial margin involvement, education, rectal surgery centres

• Strategy: Education sessions to review surgical techniques and research on functional outcomes

• Pelvic recurrence has decreased in BC - likely due to increased use of adjuvant radiation and 87%

RECTAL CANCER UPDATE: THE LAST 5CM - DISTAL TME AND BEYOND

• Julio Garcia-Aguilar (University of California SF, USA)





BC Cancer Agency CARE & RESEARCH An agency of the Provincial Health Services Authority