Title: A radiobiological analysis of multicentre data for postoperative keloid radiotherapy
Authors: John c. Flickinger, m.d.
Publication: International Journal of Radiation Oncology Biology Physics
Date Published: 15/03/2011
Abstract: To identify factors significantly affecting recurrence rates after postoperative external beam radiotherapy (XRT) of keloids, and to delineate any radiation dose response and effects of radiation dose per fraction. Postoperative keloid radiotherapy requires moderately high doses and optimal technique to be effective. The relatively low a/b ratio indicates that radiotherapy with a limited number of fractions and high doses per fraction is the best strategy.

Title: Dose–effect relationships for recurrence of keloid and pterygium after surgery and radiotherapy
Authors: Henk B. Kal, Ph.D., Ronald E. Veen, M.D., Ph.D., and Ina M. Ju¨ Rgenliemk-Schulz, M.D., Ph.D
Publication: International Journal of Radiation Oncology Biology Physics
Date Published: 01/01/2009
Abstract: To show radiation dose–response relationships for recurrence of keloid and pterygium after radiotherapy following surgery. Most of the doses in the radiotherapy schemes used for prevention of keloid recurrence after surgery are too low. In contrast, the doses applied in most regimens to prevent pterygium recurrence are too high. A scheme with a BED of 30 to 40 Gy seems to be sufficient to prevent recurrences of keloid as well as pterygium.

Title: Descriptive study of patients receiving excision and radiotherapy for keloids
Authors: Giovanna Speranza, M.D., M.Sc., Khalil Sultanem, M.D., and Thierry Muanza, M.D
Publication: International Journal of Radiation Oncology Biology Physics
Date Published: 18/12/2007
Abstract: To review and describe an institution’s outcomes in patients treated with external beam radiotherapy after keloid excision. The results of the study have shown that orthovoltage-based radiotherapy after surgical excision for keloids is a good method for the prevention of relapse. It is well tolerated, causes little toxicity, and leads to a high patient satisfaction level.

Title: The role of kilovoltage irradiation in the treatment of keloids
Authors: J. Fred Doornbos, M.D., Thomas J. Stoffel, M.D., A. Curtis Hass, M.D., David H. Hussey, M.D., Antonio P. Vigliotti, M.D., B-Chen Wen, M.D., Mohammed K. Zahra, M.D. and Val Sundeen, R.T.
Publication: International Journal of Radiation Oncology Biology Physics
Date Published: 01/04/1990
Abstract: A retrospective analysis of the results of kilovoltage irradiation given to prevent the regrowth of 203 keloids excised at the University of Iowa Hospitals and Clinics, Iowa City, Iowa, Lutheran Hospital in Moline, Illinois, and Mercy Hospital in Cedar Rapids, Iowa.