

ANAL CANCER

5-FLUOROURACIL – MITOMYCIN – RADIATION

| | | | |
|-------------------|--|------|-----------------------------|
| 5-Fluorouracil | 1000 mg/m ² /day | CIVI | Days 1 – 4 and 29 – 32 |
| Mitomycin C | 15 mg/m ² | IV | Day 1 |
| Radiation Therapy | 2 Gy/day* | | Days 1 – 5, 8–12, & 15 – 19 |
| | *2 Gy/day, 5 days/week starting on Day 1; Maximum radiation dose 30 Gy | | |
| Surgery | 4 – 6 weeks following the last day of radiation treatment | | |

Reference: [Nigro ND, et al. *Cancer* 1983;51:1826–9.](#)

NOTE: An alternative is 5-Fluorouracil at a dose of 750 mg/m²/day CIVI for 5 days plus mitomycin C. Radiation started immediately after the completion of chemotherapy.

Reference: [Michaelson RA, et al. *Cancer* 1983;51:390 – 5.](#)

5-FLUOROURACIL – CISPLATIN (or MITOMYCIN C) – RADIATION

| | | | |
|----------------|------------------------------------|------|------------|
| Radiation | 45 Gy in 25 fractions over 5 weeks | | |
| 5-Fluorouracil | 1000 mg/m ² /day | CIVI | Days 1 – 4 |
| Cisplatin* | 100 mg/m ² | IV** | Day 1 |
| | <i>OR</i> | | |
| Mitomycin C* | 10 – 15 mg/m ² | IV | Day 1 |

Followed by

Brachytherapy Implants Boost (to 60 Gy total) or external beam

*Either cisplatin or mitomycin C are administered, NOT BOTH; **Routine pre- and post-hydration required.

Chemotherapy generally given concurrently with radiation for medically fit patients who have positive nodes or T 2 – 4 lesions 3 cm or larger and consisted of 2 cycles during week 1 and 5.

Reference: [Mitchell SE, et al. *Int J Radiation Oncology Biol Phys* 2001;49:1007 – 13.](#)

5-FLUOROURACIL – CISPLATIN – HIGH-DOSE RADIATION

| | | | |
|----------------|---|-------|------------|
| Radiation | External beam radiotherapy administered (total 30 Gy in 3 Gy fractions for 10 fractions (4 days/week) with boost to lymph nodes concurrent with chemotherapy); and during the first week of external beam radiotherapy concomitant chemotherapy was administered as listed below: | | |
| 5-Fluorouracil | 1000 mg/m ² /day | CIVI* | Days 1 – 4 |
| Cisplatin | 25 mg/m ² /day | IV** | Days 1 – 4 |

Followed by

Brachytherapy Implants 8 weeks after the end of the external beam radiation

*5-Fluorouracil dose decreased to 800 mg/m²/day and cisplatin to 20 mg/m²/day for elderly patients with a poor performance status; **Routine pre- and post-hydration administered.

Reference: [Gerard JP, et al. *Radiotherapy and Oncology* 1998;46:249 – 56.](#)

