

|                                    | D     |    |    |            |       |  | Increase factor |
|------------------------------------|-------|----|----|------------|-------|--|-----------------|
|                                    | d     | FX | D  | alpha/beta | D(2)  |  |                 |
| 5 fractions/week, 2 Gy/fraction    | 2     | 30 | 60 | 2          | 60.0  |  |                 |
| 3 fractions/week, 3.33 Gy/fraction | 3.333 | 18 | 60 | 2          | 80.0  |  | 1.33            |
| 2 fractions/week, 5 Gy/fraction    | 5     | 12 | 60 | 2          | 105.0 |  | 1.75            |

| Table E.II.b) Influence of treating all fields every day vs. alternating fields (skin) |     |     |      |     |     |      |      |            |      |                 |      |
|----------------------------------------------------------------------------------------|-----|-----|------|-----|-----|------|------|------------|------|-----------------|------|
|                                                                                        | d1  | FX1 | D1   | d2  | FX2 | D2   | D    | alpha/beta | D(2) | Increase factor |      |
| 2 parallel opposite fields every day, 30 fractions                                     | 2   | 30  | 60   |     |     |      | 60.0 | 3          | 60.0 |                 |      |
| skin in the head region, factor 2 (e.g., d1 nearly 2*d2)                               | 2.7 | 15  | 40.5 | 1.3 | 15  | 19.5 | 60.0 | 3          | 62.9 |                 | 1.05 |
| skin in abdominal region, factor 3 (e.g., d1 nearly 3*d2)                              | 3   | 15  | 45   | 1   | 15  | 15   | 60.0 | 3          | 66.0 |                 | 1.10 |

| Table E.II.c) Influence of treating all fields every day vs. alternating fields (rectum) |     |     |      |      |     |      |    |            |      |                 |      |
|------------------------------------------------------------------------------------------|-----|-----|------|------|-----|------|----|------------|------|-----------------|------|
|                                                                                          | d1  | FX1 | D1   | d2   | FX2 | D2   | D  | alpha/beta | D(2) | Increase factor |      |
| all fields every day                                                                     | 2   | 30  | 60   |      |     |      | 60 | 3          | 60.0 |                 |      |
| example of rectum, factor 2 (e.g., d1 nearly 2*d2)                                       | 2.7 | 15  | 40.5 | 1.30 | 15  | 19.5 | 60 | 3          | 62.9 |                 | 1.05 |

| Table E.II.d) Influence of treating all fields every day vs. alternating fields (spinal cord) |     |     |      |      |     |      |    |            |      |                 |      |
|-----------------------------------------------------------------------------------------------|-----|-----|------|------|-----|------|----|------------|------|-----------------|------|
|                                                                                               | d1  | FX1 | D1   | d2   | FX2 | D2   | D  | alpha/beta | D(2) | Increase factor |      |
| all fields every day                                                                          | 2   | 30  | 60   |      |     |      | 60 | 2          | 60.0 |                 |      |
| example of thoracic or lumbar cord (factor 2) (e.g., d1 nearly 2*d2)                          | 2.7 | 15  | 40.5 | 1.30 | 15  | 19.5 | 60 | 2          | 63.7 |                 | 1.08 |

Table A.II. Examples-trial

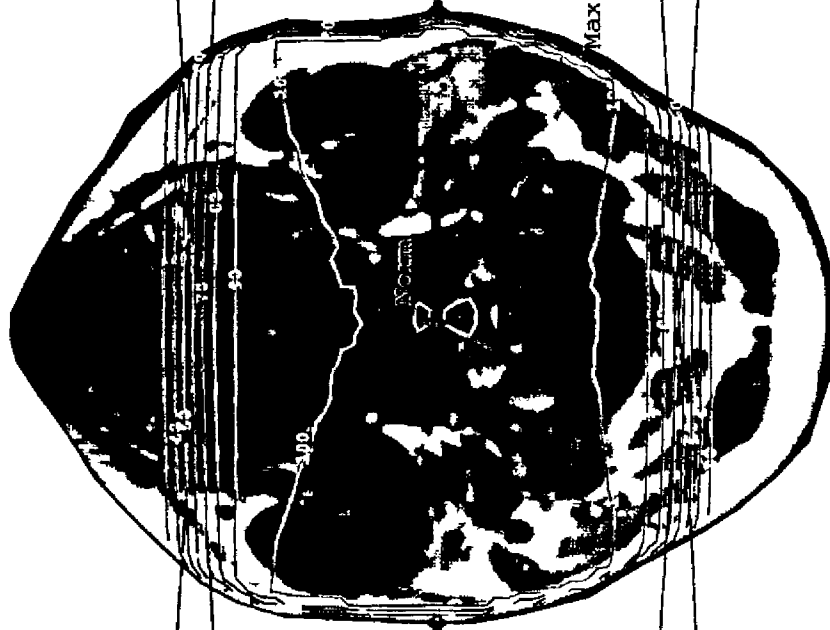
| ID | tissue                                                  | D1< | FX1< | D1<  | D2< | FX2< | D2< | min  | std  | D1>  | FX1> | D1>  | D2> | FX2> | D2>  | U        | range of<br>alpha/b<br>eta                                                                                     | Remarks from the medical<br>findings                   |
|----|---------------------------------------------------------|-----|------|------|-----|------|-----|------|------|------|------|------|-----|------|------|----------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 8  | skin and subcutaneous<br>tissue in the sacral<br>region | 3   | 3    | 10   | 33  | 1    | 10  | 10   | 2.58 | 5.25 | 3    | 15.8 | 1.6 | 2    | 3.2  | 61.9     | 2 4 82.6                                                                                                       | 75.7 severe sacral pigmentation                        |
| 62 | skin and subcutaneous<br>tissue in pelvis region        |     |      |      |     |      |     |      | 2.57 | 5.23 | 8    | 41.8 | 1.3 | 7    | 9.2  | 51.0     | 2 4 83.2                                                                                                       | 72.5 woody induration, concern<br>about skin breakdown |
| 78 | skin and subcutaneous<br>tissue in the sacral<br>region | 3.3 | 5    | 16.5 | 1   | 4    | 4   | 2.04 | 4.15 | 8    | 33.2 | 1.2  | 8   | 10.0 | 63.7 | 2 4 84.0 | 77.2 infected ulceration as a result<br>of overexposure of the skin<br>and also an ulcerated vaginal<br>lesion |                                                        |

Table A.III Estimated dose, BED and equivalent 2 Gy/fraction dose, for skin and subcutaneous tissue in abdominal region, for parallel oposite alternating fields

HYPOPHARINX 052

Z = 0.0

052 / 1  
2: 2 F 13X9 LAT / 3  
1997-11-10 17:01:58



2

1

10 cm

1.00

Helax