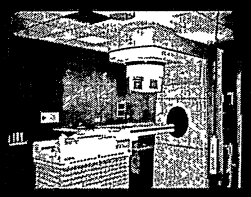
Radiotherapy



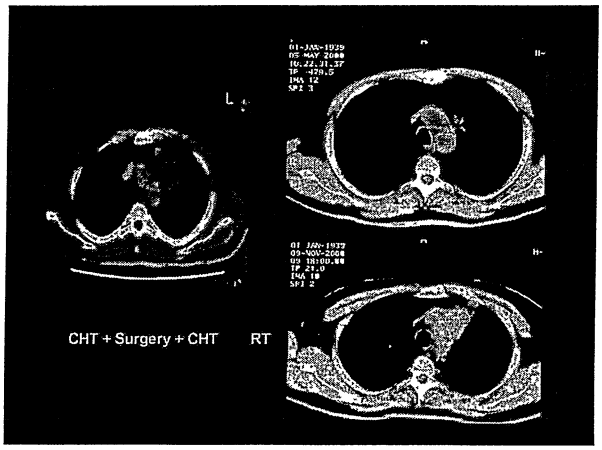


Lung cancer

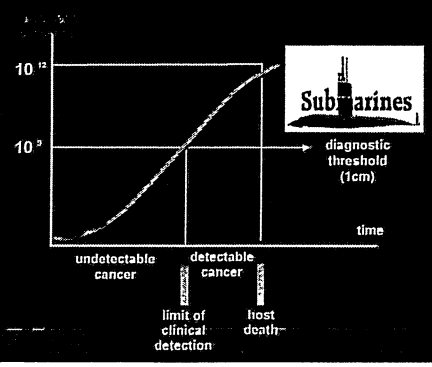
Αρχές προπαγάνδας
Ραδιοβιολογικά στοιχεία

Ακτινοβόληση:
Παρελθόν
Σύγχρονη
Ακτινοθεραπεία:
Προσαρμοσμένη.
Στερεοτακτική Σώματος.
IMRT.

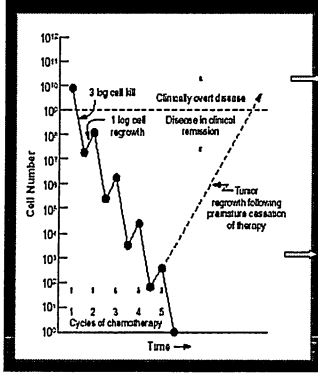




Tumor Growth



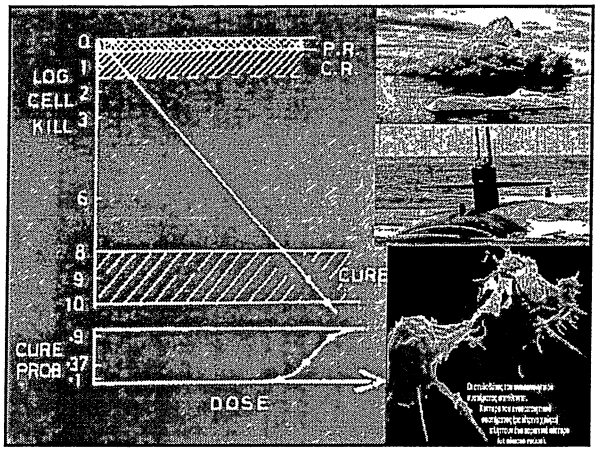
Cell survival and treatment.

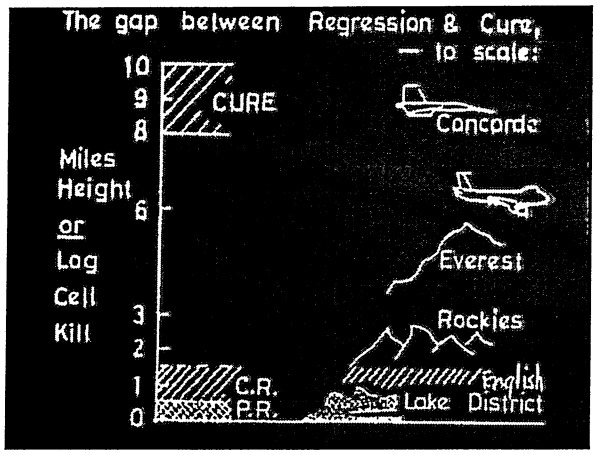


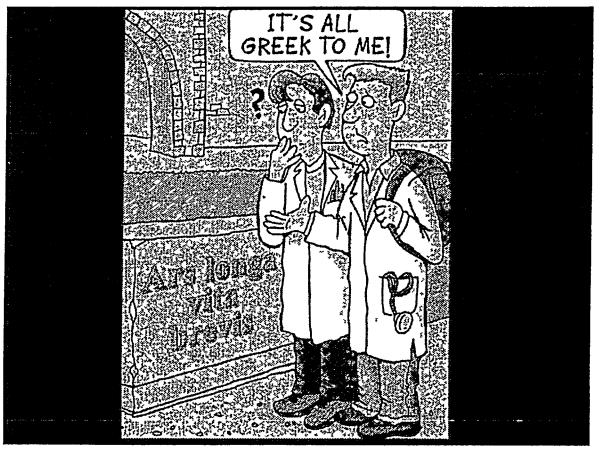
Εκθετική σχέση μεταξύ δόσης φαρμάκου και επιβίωσης καρκινικών κυττάρων, υποδηλώνει οτι stady potpotion of cells, και Not number, εξουδετερωνονται με καθε κύκλο θεραπείας.

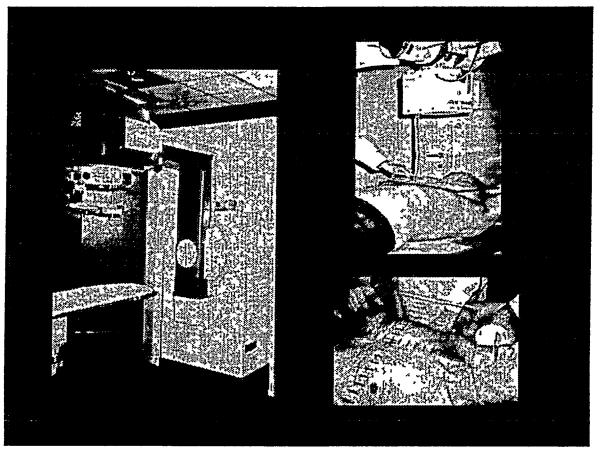
Καθε κύκλος εχει σαν υποτέλεσμα **99.9% (3 log) of cell kill**, ενω 1 log κυττάρων αναπτυσσεται ξανα μεταξύ των κύκλων.

Η διακεκομμη γραμμή υποδηλωνει την εκβαση αν παραληφθει ο τελευταίος κυκλος θεραπείας παρά την πληρη κλινικη ύφεση της νόσου , η υποτροπή είναι αναποφευκτη.









Radiation therapy classic.
Pneumonitis compatible with previous treatments

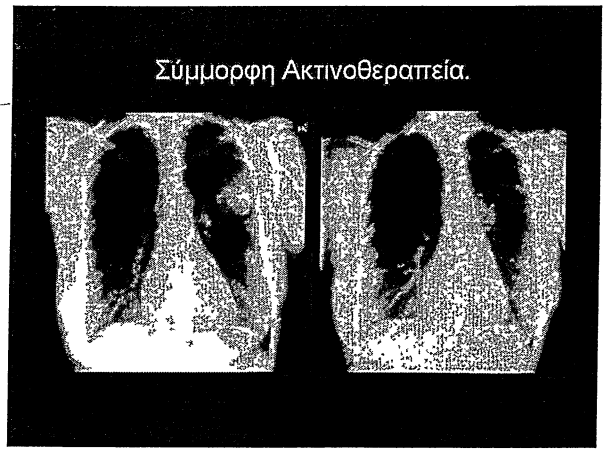


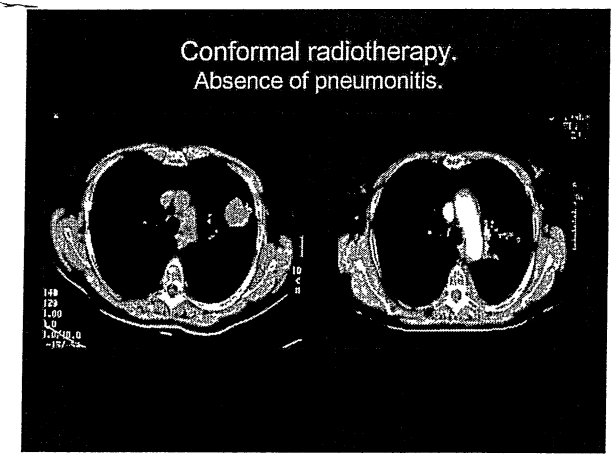
Optimization of radiotherapy.

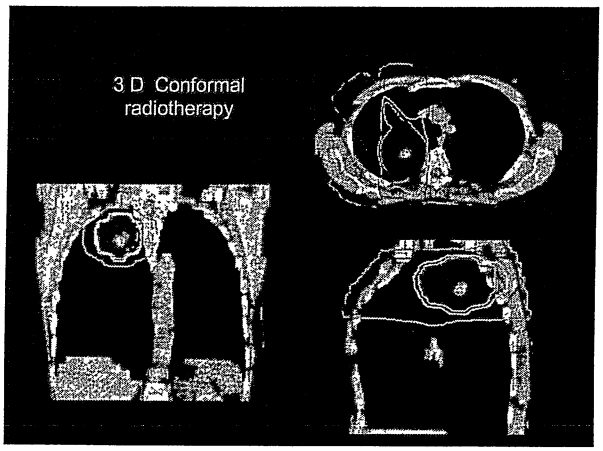
New techiques

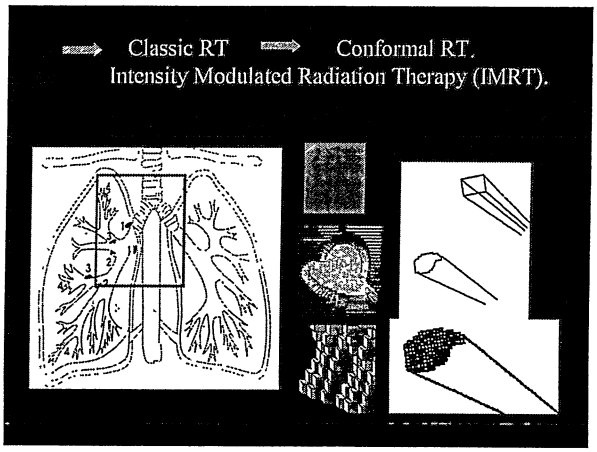
- ✓ Conformal Radiotherapy.
- ✓ Intensity Modulated Radiation Therapy.

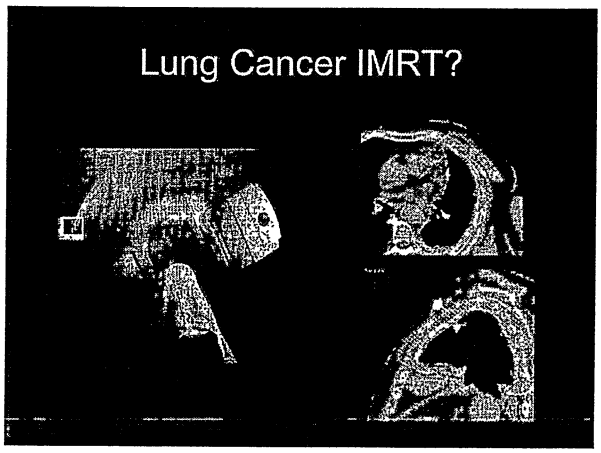


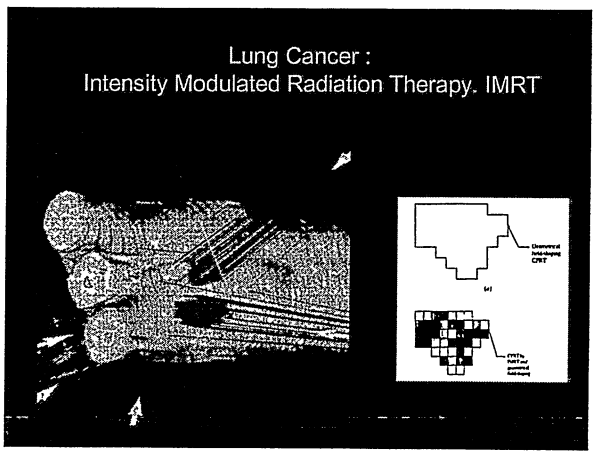

Σύμμορφη Ακτινοθεραπεία.


Conformal radiotherapy.
Absence of pneumonitis.

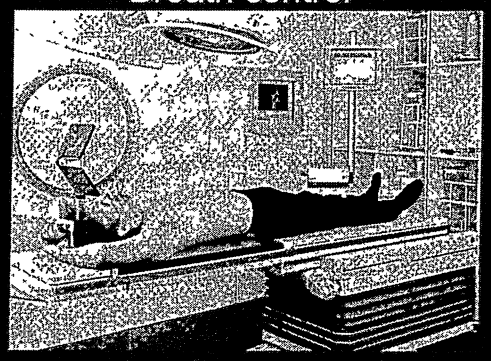

3 D Conformal
radiotherapy


Classic RT
Conformal RT,
Intensity Modulated Radiation Therapy (IMRT).

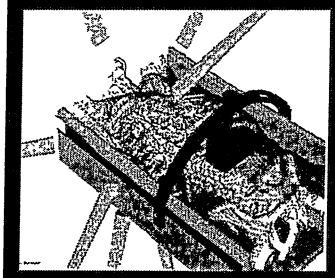

Lung Cancer IMRT?

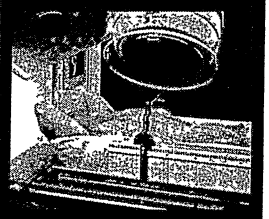

Lung Cancer :
Intensity Modulated Radiation Therapy. IMRT

Breath control



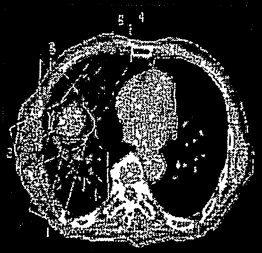
Body-stereotactic



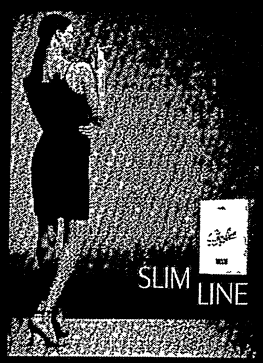


Body-stereotactic



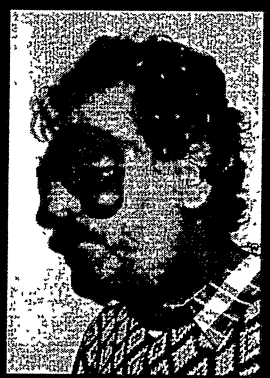


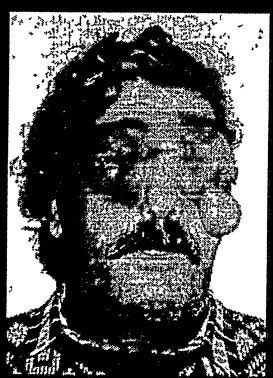
The bigger
the lie
The more likely
that people
will believe it

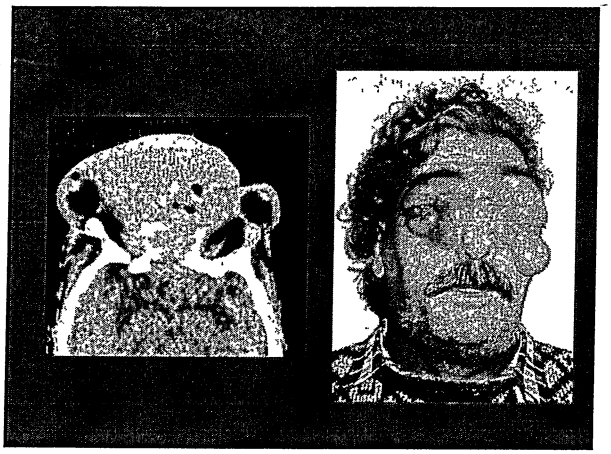


When
Treating Cancer

Your First Chance
is Your
Best Chance

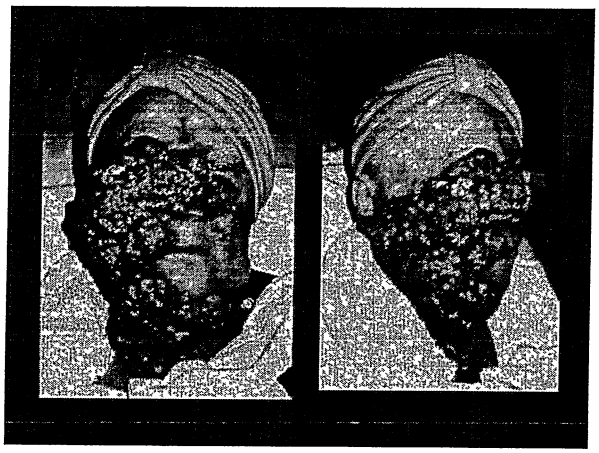












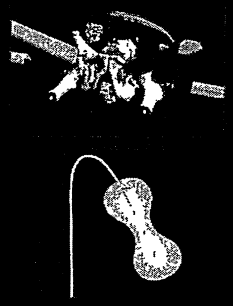


When
Treating Cancer

Your First Chance
is Your
Best Chance

Ακτινοθεραπεία

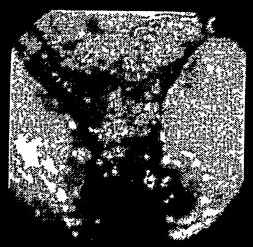
- Εξωτερική Δέσμη
  - Προεγχειρητική
  - Μετεγχειρητική
  - Διεγχειρητική
- Βραχυθεραπεία
  - Ενδοϊστική
  - Ενδοκοιλοτική



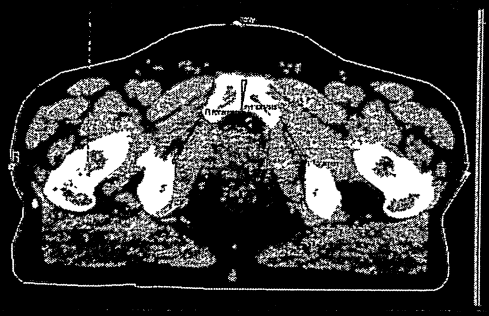
Head and neck cancer



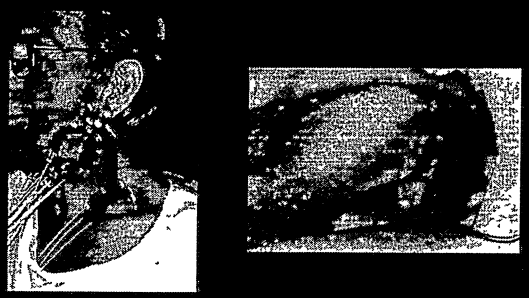
Cancer off the cervix



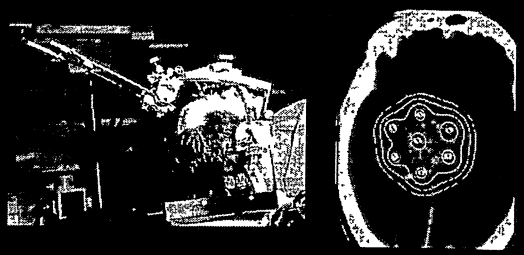
Ουρολογικός καρκίνος



Βραχυθεραπεία Κεφαλής -Λαιμού



Brachytherapy brain



conclusion

- Radiation treatment for local control.
- ✓ Multimodality treatment for cancer. (Local regional control)
- ✓ Meeting dedicated to cancer treatment in every Hospital.



Radiation Oncology

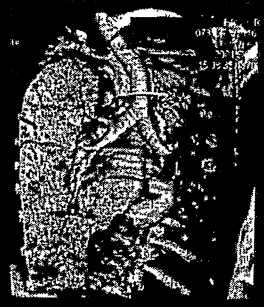
Aim:

- Cure.
- Palliation.

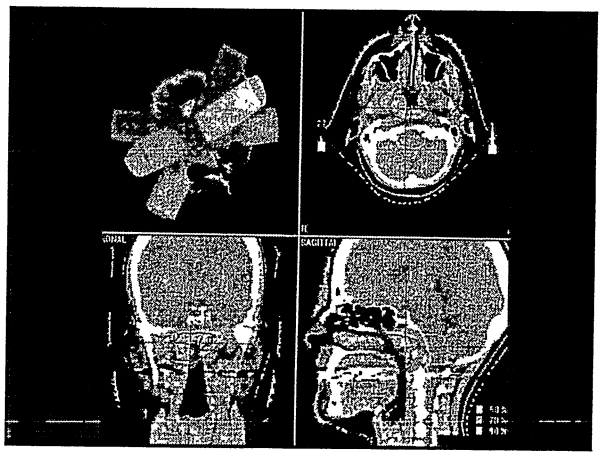


Virtual simulation









Students of Medicine Watch What We Do Not What We Say

Am.Med.Assoc.1849

Radiation treatment

- Cures many times.
- Palliate frequently.
- Support always.



