

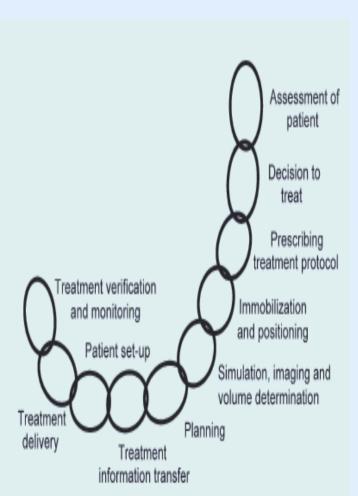
ALBANIA 2016 (Oncology Service UHC)

Year	Population	Median Age	Fertility Rate	Density (P/Km²)	Urban Pop %	Country's Share of World Pop	World Population	Albania Global Rank
2016	2,903,700	34.5	1.78	106	64.5 %	0.04 %	7,432,663,275	139



- New cancer patients 5710
- New patients undergoing RT 1016
- New courses of treatment in RT 1618

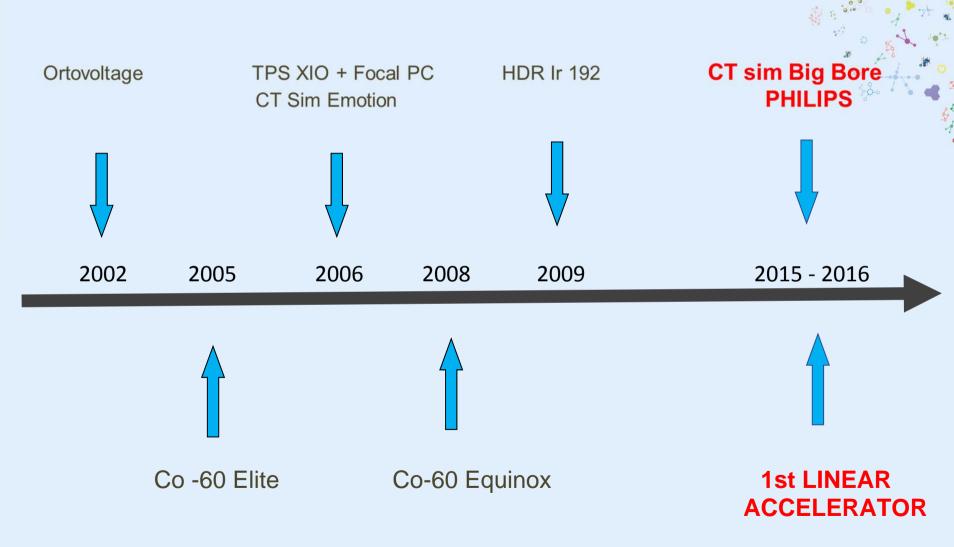
Challenges



To ensure QC&QA programs that any link of this chain works properly

- Improvement in human resources
- Improvement in infrastructure and technology
- Standardization of radiotherapy (to reduce overload per machine and staff, well defined protocols)

Evolution of RT Department under TC projects with IAEA



2015 Radiotherapy New Building

Contributor: MOH









Transition from COBALT to LINAC

ELITE-80

- Manual data input
- Symmetric jaws
- Co 60 source
- Only one wedge valid
- The smallest field size 5x5cm
- No second monitor



EQUINOX - 100

- Digital data input
- Asymmetric jaws
- •Co 60 source
- All wedges available (dynamic W)
- The smallest field size 3x3cm
- Second monitor check



LINAC

- MOSAIQ patient information management system, reducing data entry errors
- MLC (80 Multi Leaf Collimator)
- No Radioactive source (photons and electrons)
- Motorized wedges
- The smallest field size 1x1cm
- iView (MV image) for patient position verification



Work Load (Oncology Service UHC)

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Total number of treated patients							
Year	Cobalt therapy	Ortovoltage	Linear Accelerator				
2015	1100	360	0	+ 158 patients May-December			
2016	903	286	429	They becomed			

Machines

Linac (6,18MV)	~800pat/yr
Cobalt 60	~500pat/yr
Ortovoltage	~300pat/yr

Regular Maintenance Contract

RT Staff

Radiation Oncologist	7	~ 230pat/yr
Medical Physicist	6	~270pat/yr
> RTT	10	~120pat/yr
> RT nurse	1	

Training Programme only for RO since 2004

Innovation

- Hypofractionated RT (Breast cancer patients)
- * Reirradiate cancer patients
- Irradiate Pediatric Patients
- Irradiate patients with GI tumors

By end of 2017- early 2019

- ➤ The second Linear Accelerator with Cone Beam CT
- A new TPS MONACO for IMRT and VMAT
- Implementation of advanced techniques IMRT& VMAT



Way Forward

- Strengthening the development of a national plan for radiation oncology
- Continued government commitment for sustainable financing in RT
- Avoiding waiting list and work overload
- Human resources for RT
- > Expansion of access to RT
- > Supporting research

Thank You