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Conflicts of interest: Nothing to declare
Introduction

• First IMRT in Thailand was in 2003 and then it was gradually increased in contexts of resource-limited developing country.

• We analysed the THASTRO annual statistical reports from 2008-2015 to report
  • Growth of availability and use of IMRT
  • Difference between centers in capital (Bangkok) and the rest of country
  • Significant of resource factors on IMRT use
Results I

From 2008 to 2015 statistics
- IMRT Machine, ↑ from 9 to 42
  - Bangkok: 7 to 28 machines
  - Others: 2 to 14 machines
- % of IMRT, ↑ 2.5% to 12.52%
  - Bangkok: 5.22% to 19.81%
  - Others: 0.41% to 4.92%

Growth of IMRT availability and use

Thailand
- Area 513,120 sq.km.
- Population 67,959,000

Bangkok
- Area 1,568 sq.m.
- Population 8,280,925
Results II

In 2015 statistical report,

- Average IMRT patients per machine were 106.61 and 51.65 for machines in Bangkok and others (p=0.05)

- Workload was difference between Bangkok and Others
  - Average number of patients per radiation oncologists and physicists were lower in Bangkok
  - p=0.0024 and 0.0058, respectively

Workload to personnel
(Number of patients per personnel)
Discussion/conclusions

• IMRT in Thailand was gradually increased which mostly concentrated in Bangkok
• Workload factors were significant obstacle for IMRT implementation

• Our findings urge the need of improvement of distribution, accessibility and efficient use of IMRT in Thailand