International Atomic Energy Agency Scientific Forum

# A Decade of Action on Cancer Control

and the Way Forward



17—18 September 2019 Vienna International Centre Board Room D, C Building, 4th Floor

Regional collaboration:

China's experience in thyroid cancer

management

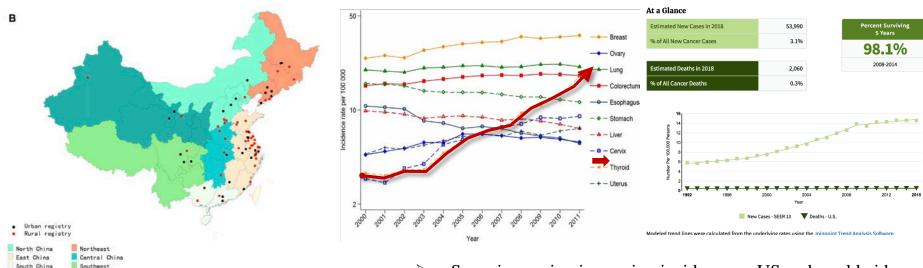
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#### Thyroid cancer in China: Increasing incidence with unpromising survival



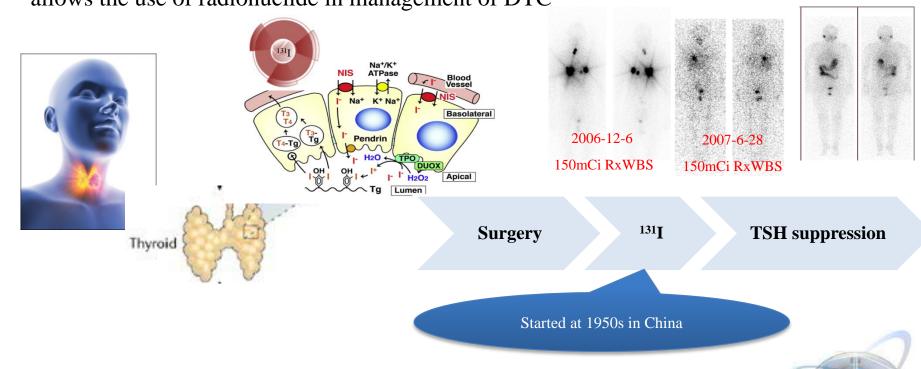
- > Incidence: 6.79 / 100,000<sup>1</sup>
- New cases 194232/567233 (34%)<sup>2</sup>

Same increasing increasing incidence as US and worldwide

2008: China vs US: 73.9% vs 97.93% <sup>3, 4</sup>

1.He J, et al., CA CANCER J CLIN. 2015; 66: 115-132 2. Ferlay J, et al. Int. J. Cancer, 2019, 144: 1941-1953 3. He J, et al., Lancet Glob Health 2018; 6: 255-6 4. Howlader N, et al. SEER Cancer Statistics Review, 1975-2016, National Cancer Institute. Bethesda, MD, https://seer.cancer.gov/csr/1975\_2016/, based on November 2018 SEER data submission, posted to the SEER web site, April 2019.

Features of the differentiated thyroid cancer (DTC accounts for 90% of thyroid cancer) allows the use of radionuclide in management of DTC



#### Influence of IAEA in the management of thyroid cancer in China

- RAS 6043/RAS 6047/RAS 6074/RAS 6083
- Training course, Workshop, Scientific visitors greatly updated our knowledge about the standards of IAEA and trends of management of thyroid cancer worldwide.





Workshop on Leadership Skills for Emerging Challenges in Nuclear Medicine (Nov. 2018, IAEA)

Final Workshop iof RAS 6083 (Dec. 2018, SIN)

-held in conjunction with the IAEA Ministerial Conference

Expert Mission to CPR, Oct. 2016.

## International Collaboration: Formed the Thyroid Study Group Project of the Asia Oceania Research Initiative Network, (AORIN) under the help of IAEA

Friendship/Guidance /Self- promotion/Partner and Academic coordination



#### Domestic collaborations

Friendship/Guidance /Self- promotion/Partner and Academic coordination













Chinese Society of Clinical Oncology Beijing Xisike Clinical Oncology Research Foundation







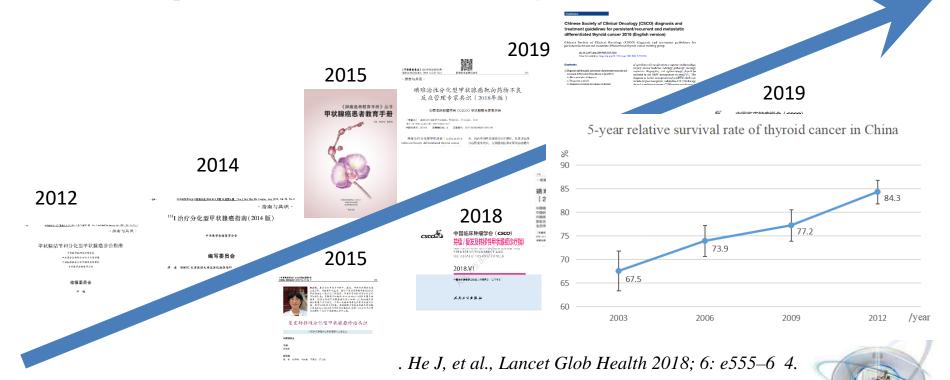








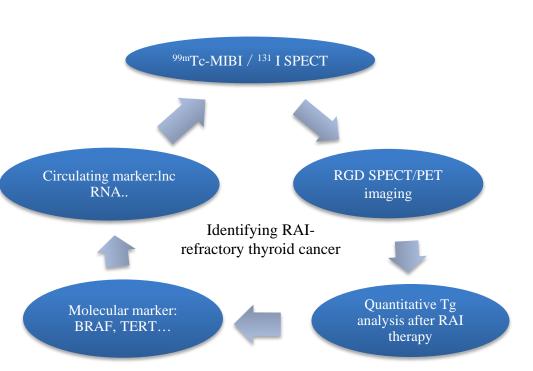
Consensus/guidelines/pamphlets by relative Chinese associations –greatly improved the standardized care of thyroid cancer in China

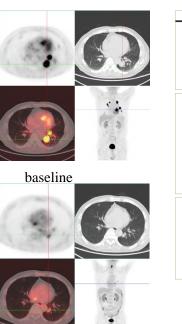


#### Recent advances:

1)Early identifying RAI-refractory thyroid cancer

2) Exploring safe, effective, more affordable drug for Chinese RAI-Refractory- thyroid cancer patients







56days after apatinib (750mg qd po)



#### Regional collaboration:

China's guidance in thyroid cancer management among Asian area



Combining of IAEA activity with China National project: Regional training course on the use of Nuclear Medicine in management of thyroid disease



Collaborative research papers

Expert mission of RAS6083 Pakistan

#### Devolope E-learning materials:

- Evaluation before RAI treatment
- Early identification of RAI-refractory thyroid cancer
- Management of advanced thyroid cancer

### Summary

- Huge patients base of thyroid cancer accounts for 1/3 of the the annual new cases worldwide with unpromising surviving status.
- With the guidance of IAEA RAS programme /regional cooperation, we gain partners and academic cooperative platform.
- Both the standardized care and management of advanced thyroid cancer had been improved over the recent 10 years in China.
- Activities aim at minimizing the academic imbalance between urban and rural area, promoting the public education of thyroid cancer knowledge, remain on the way.
- Meanwhile, China is eager to be involved in academic cooperation and taking the responsibility in guidance of management of thyroid cancer among Asian-Oceania.



