

# 10<sup>th</sup> Global Annual Oncologists Meeting

July 11-13, 2016 Cologne, Germany

## Challenges in treating ca nasopharynx, ca tonsil and post op head neck cancers by intensity modulated radiationtherapy

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Globally with the advancement in technology and intensity modulated radiation therapy technique and thorough knowledge on the microscopic areas of spread of the head and neck tumors in defining PTV, CTV and dose prescription when treated either by radiation therapy alone or with concurrent chemotherapy and radiation therapy or as post operative radiation therapy proved an increase in the locoregional control rate and 5 year survival rate in locally advanced head neck cancers by more than 60% and early disease by more than 75%. The CTV in tonsil should include pterygoid plates, medial pterygoids, retropharyngeal nodes, maxillary tuberosity, retrostyloid nodes, tongue base, GB sulcus, lateral pharyngeal wall. The CTV in nasopharynx posterior includes 1/3rd of tongue, medial part of clivus, pharyngeal space, skull base, inferior sphenoid sinus. The CTV in post-op head and neck cancers should be preoperative area of extent of tumour, post-op histopathology details and include microscopic involvement of the tumour, positive margins, extracapsular nodal spread includes skin in CTV, perineural spread the entire nerve involved will be the CTV, nodal stations involved and differential dose prescription of subsequent level will be the CTV in post-op Ca Buccal mucosa prefacial node, in post-op Ca Retromolar trigone, Upper alveolus and tumors crossing the midline the CTV should include pterygoid muscles. In post-op Ca Tongue, the entire tongue and mandibular foramen would be the CTV. If pterygoid muscle is involved, temporalis is included in CTV.

### Biography

Anitha Gopal has completed her MD in Radiation Therapy from Barnard Institute of Oncology at Madras Medical College in 2003. She is the Head of Oncology, Fortis Hospitals Bangalore, India, accredited to Joint Commission International (JCI). She has been awarded the Best Poster Award in AROI State Conference-2004 (Association of Radiation Oncologist of India Tamil Nadu and Pondicherry chapter) on "Volume reduction analysis and hearing function preservation in stereotactic radiotherapy of Vestibular schwannoma" representing as a registrar of Apollo. She participated in a paper presentation on her MD thesis study in AROI State Conference-2003 as a MD postgraduate. She won Best Paper Presentation Award on 2 rare case reports of Follicular Dendritic Cell Sarcoma in AROI State Conference-2005, and National Faculty in AROI National Conference-2007. She has a publication on "Follicular dendritic carcinoma of Medistinum" in the Journal of Neuroncology.

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