







2016 RADIOTHERAPY PLAN COMPETITION

Be the strongest In the radiotherapy chain

Knowledge Sharing for Better Quality

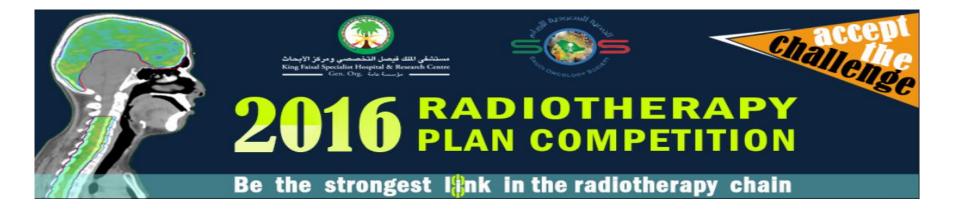
Live-Webinar Series RayStation TPS

Organizer:

Ahmad Nobah, M.Sc., DABR

Medical Physicist Biomedical Physics Department King Faisal Specialist Hospital & Research Centre Riyadh, Saudi Arabia

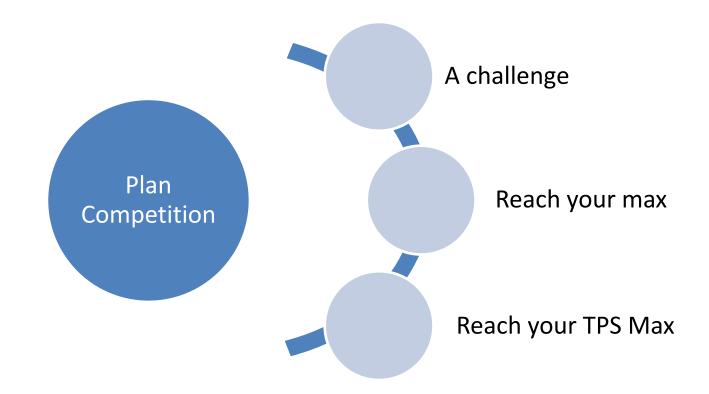




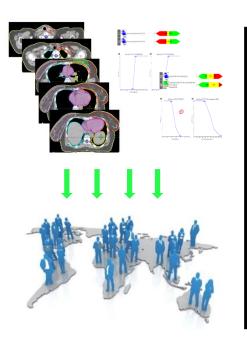
Agenda

- The 2016 plan competition: Ahmad Nobah (5 min)
- RayStation Best Plan Presentation: Hugues Mailluex (France): 25 min
- Final Announcements: Ahmad Nobah (5 min)

Plan Competition



Plan Competition - Concept











Through Live-webinar and shared documents

Competition Cycle

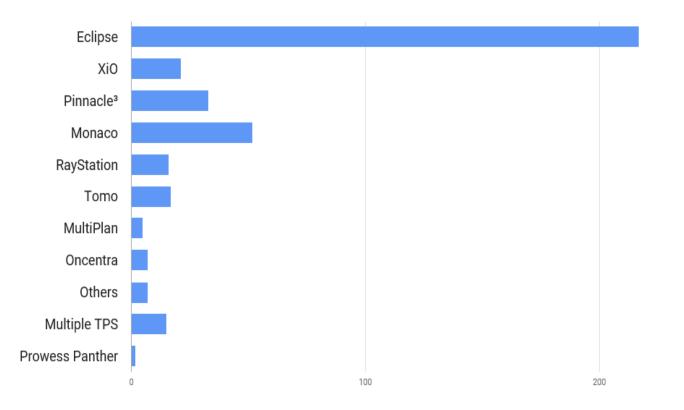




The first edition of the Radiotherapy International Plan Competition:

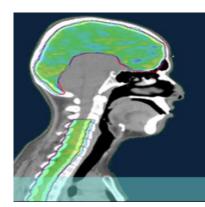
- Statistics
- Case Description & Dosimetric Criteria

Treatment Planning Systems



No. Participants

300









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Activities so far:

- Eclipse TPS Live-webinar
- Monaco TPS Live-webinar
- Pinnacle TPS Live-webinar
- Tomotherapy TPS Live-webinar



Website

http://www.radmed.org/plancompetition2016.php

WhatsApp competition group.

To join us, send a msg to the admin No:

+966-531271245

Live-Webinar Presentation:

- Next Use-Webinar Presentation:

- Please check the Important Dates tap to follow up with the live-webinar schedules

The Competition

Process

About the

Competition

To join our mailing list: Send email to anobah@kfshrc.edu.sa

Evaluation Responses

Statistics

of 2016

Important

Dates

Evaluation

Form

The Evaluation

Tool

165 Forms Submitted

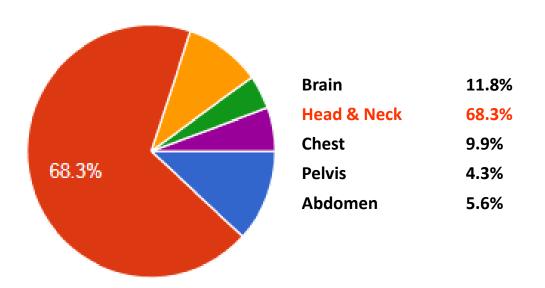
Evaluation

Responses

Scroll Down

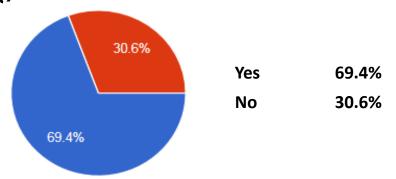
Evaluation Reponses

What site you suggest to be selected for our next competition?

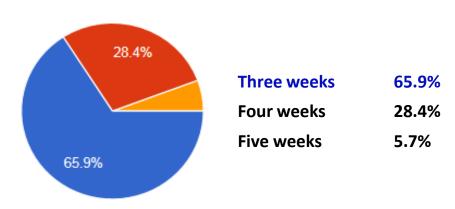


Organizers' Response

Decision has been made: 2017 Plan Competition will be Head & Neck case Get Ready © Was the time given to finish the plan (2 weeks) enough?



If the time was short, what do you suggest the period (weeks) to be for the next competition?



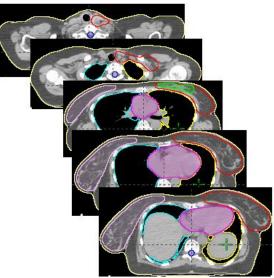
Organizers' Response

2017 Plan Competition will have <u>3 weeks planning time</u>

Case Description

Case Description

- Case diagnosis: Left Breast Cancer
- Treatment Site: Left breast with axilla and supraclavicular lymph nodes
- Target: PTV_TOT_EVAL
- Dose prescription: 50.0 Gy in 25 fr.
- Protocol followed: RTOG-1304 (Criteria squeezed more !)
- Techniques: 3D-CRT, IMRT, VMAT
- General plan criteria were set: # of fields, single isocenter, energies, ... etc
- Dose calculation grid should be less than 3 mm
- PB dose calculation is not allowed to be used
- Generated plan should be deliverable (no couch/patient collision)





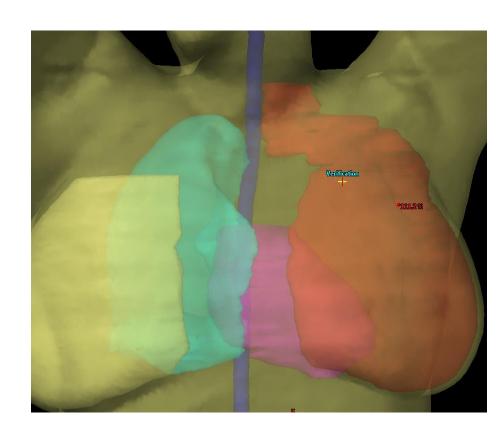
Challenging Criteria

1. Target: (Total of 45 points out of 100)

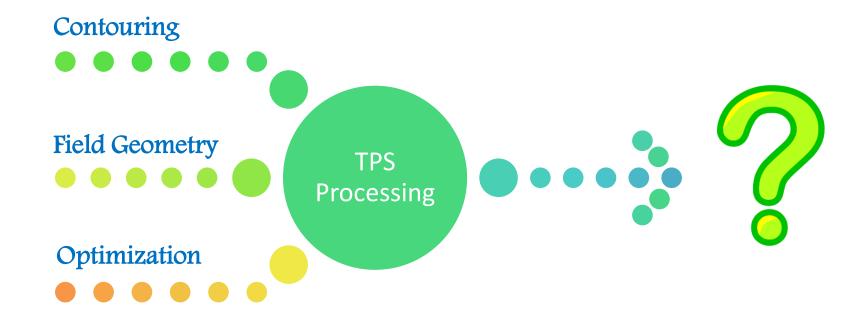
- DVH
- Conformity Index
- Homogeneity Index

2. OARs:

- Heart: (Total of 20 points)
- Left Lung: (Total of 19 points)
- Contra-lat Breast: (Total of 6 points)
- Right Lung: (Total of 4 points)





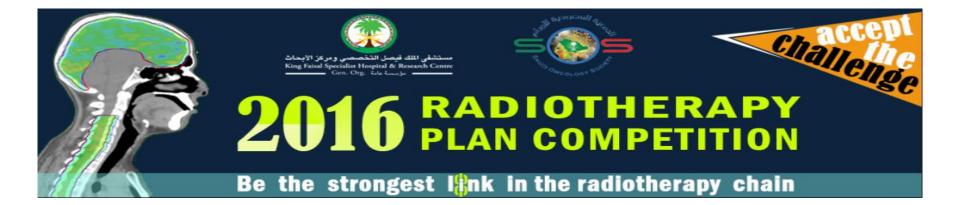


Good inputs → Good outputs

Mr. Hugues got the highest score in our competition

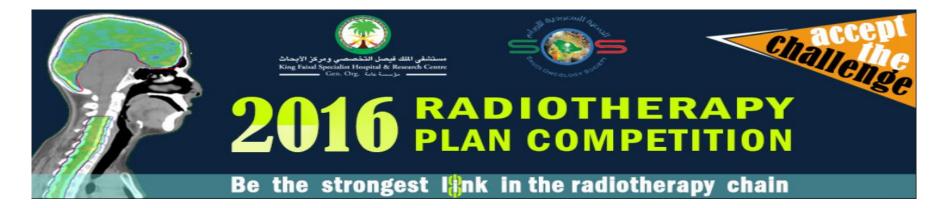
98.2/100

Let is find out more about his amazing plan and also learn some of his thinking methodology



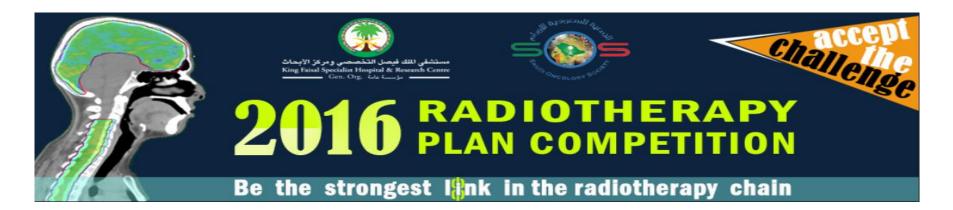
Announcements

- IAEA Web: Human Health Campus (Medical Physics main page)
- Join us and subscribe to our YouTube Channel:
 Radiotherapy Plan Competition & Medical Physics
- Dropbox shared folder: Already sent (Webinars + Best Plans' Templates)
- Your follow-up questions → Plz add them to the survey after webinar or send to Ahmad
- Follow-up re-plan will be in on Aug 14th, 2016 [⊕] get ready



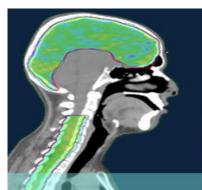
Google Follow-up Document

- The main goal is to share the best practice per TPS for the Follow-up Re-Plan (Aug 14th, 2016), and compare your previous plan with the one created based on this document.
- LT Breast google document will be shared with you per TPS, soon plz submit your questions
- Questions need to be related to the LT Breast plan
- Please do not answer the questions in the Google document, add your own questions ©



Thank you

- Sun Nuclear Corp: Plan IQ software
- Saudi Oncology Society for their sponsorship and support
- King Faisal Specialist Hospital & Research Centre
- To all participants for being with us in this journey and we hope to see you in our next competition









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To join our mailing list:

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Share the competition with your colleagues Let us make the next competition reach thousands

Thank you:)