Live-Webinar Series

Eclipse TPS

Organizer:
Ahmad Nobah, M.Sc. , DABR
Medical Physicist
Biomedical Physics Department
King Faisal Specialist Hospital & Research Centre
Riyadh, Saudi Arabia

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Agenda

- The 2016 plan competition: Ahmad Nobah (15 min)
- RapidArc top Plan: Saad Al-Delaijan (20 min)
- IMRT top Plan: Vanessa & Anthony Magliary (20 min)
The Goal of Radiotherapy ...

![Graph showing the relationship between tumor dose and effect, with optimal dose marked.](image)
Personal Skill

TPS Understanding

High Quality Plan
Quality Specifiers

- Dose Conformity
- OAR Sparing

TCP

NTCP

- Dose Homogeneity
- Dose Conformity
In Radiotherapy

The clinical criteria are ‘mostly’ achieved
but still the plan quality varies

Planners differ in skills, TPS understanding, experience, ... etc

This causes plan quality to differ from planner to the other

How can unify the quality of plans in a more objective approach?

Is there a way to stimulate planners worldwide to reach the max of their capabilities?
Plan Competition
Plan Competition

- A challenge
- Reach your max
- Reach your TPS Max
Plan Competition - Concept

Plan

Select Best Plans

Share Best Plans & Techniques

Download

Through Live-webinar and shared documents
Competition Cycle

Every Year

1. Download
2. Plan
3. Evaluation
4. Upload
5. Plans' Document
6. Webinars
7. Follow-Up Plan
8. Register

Every Year
The first edition of the Radiotherapy International Plan Competition:

- Statistics
- Case Description & Dosimetric Criteria
Total Participants ~ 400
From ~ 55 countries
210 Submitted Plans
Participants Per Country

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<th>Country</th>
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Website
Website


WhatsApp competition group. To join us, send a msg to the admin No:
+966-531271245

To join our mailing list: Send email to
anobah@kfshrc.edu.sa
Evaluation Responses
166 Forms Submitted

How did you hear about the competition?

- Website: 11.1%
- Colleague: 42.6%
- Social Media: 19.1%
- Emails: 21%
- Other: 6.2%

Organizers’ Response
Please share the competition with your colleagues and use other means of sharing
Evaluation Responses

Do you feel that such a competition was beneficial and improved your planning skills?

- Yes: 94.5%
- No: 5.5%

Organizers’ Response

It was a tough competition!
But most have learned from being in such a challenging situation.
Organizers’ Response

Decision has been made:
2017 Plan Competition will be Head & Neck case
Get Ready 😊
Organizers’ Response

2017 Plan Competition will have **3 weeks** planning time

Was the time given to finish the plan (2 weeks) enough?

- Yes: 69.4%
- No: 30.6%

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

- Three weeks: 65.9%
- Four weeks: 28.4%
- Five weeks: 5.7%
Evaluation Responses

Would you recommend this competition to your colleagues in its next edition?

- Yes: 98.8%
- No: 1.2%

Organizers’ Response

Thank you 😊

Please share this competition with your colleagues, we really like the competition community to reach thousands in the 2017
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)
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)
How to get started ?
Contouring
Field Geometry
Optimization

TPS Processing

Good inputs → Good outputs
How planners achieved such high quality plans in our left breast challenging case?

Let us find out now