



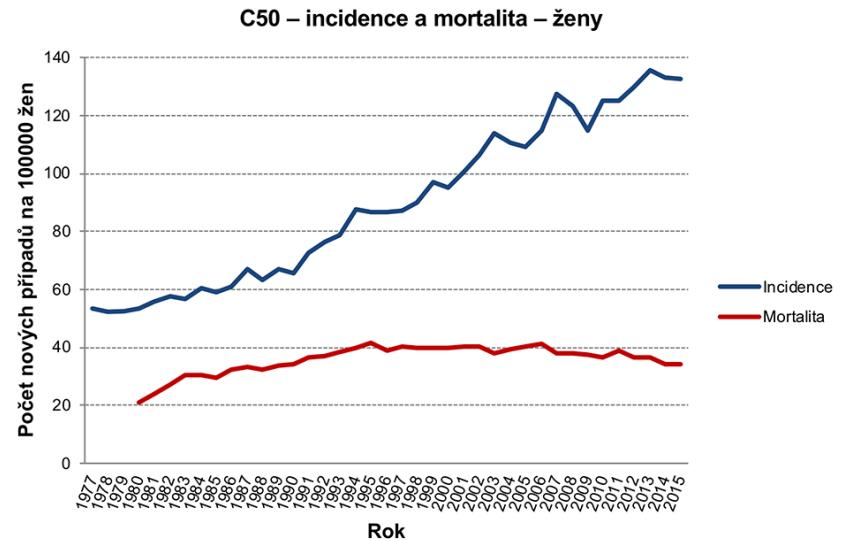
Adjuvant radiotherapy and postmastectomy breast reconstruction

Zarubova L., Patzelt M.

Royal Vinohrady Teaching Hospital
Third Faculty of Medicine, Charles University, Prague

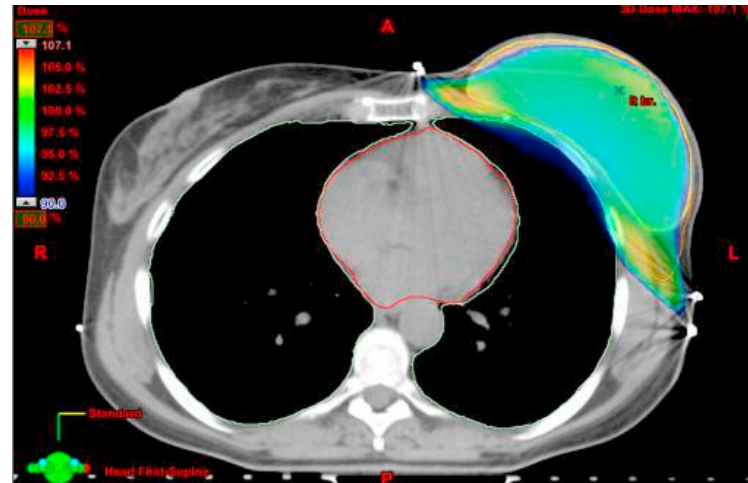
Breast cancer in Czech republic

- Most common women malignancy
- Incidence 137 for 100 000
/98 for 100 000/
- Mortality 37 for 100 000



Breast cancer radiotherapy

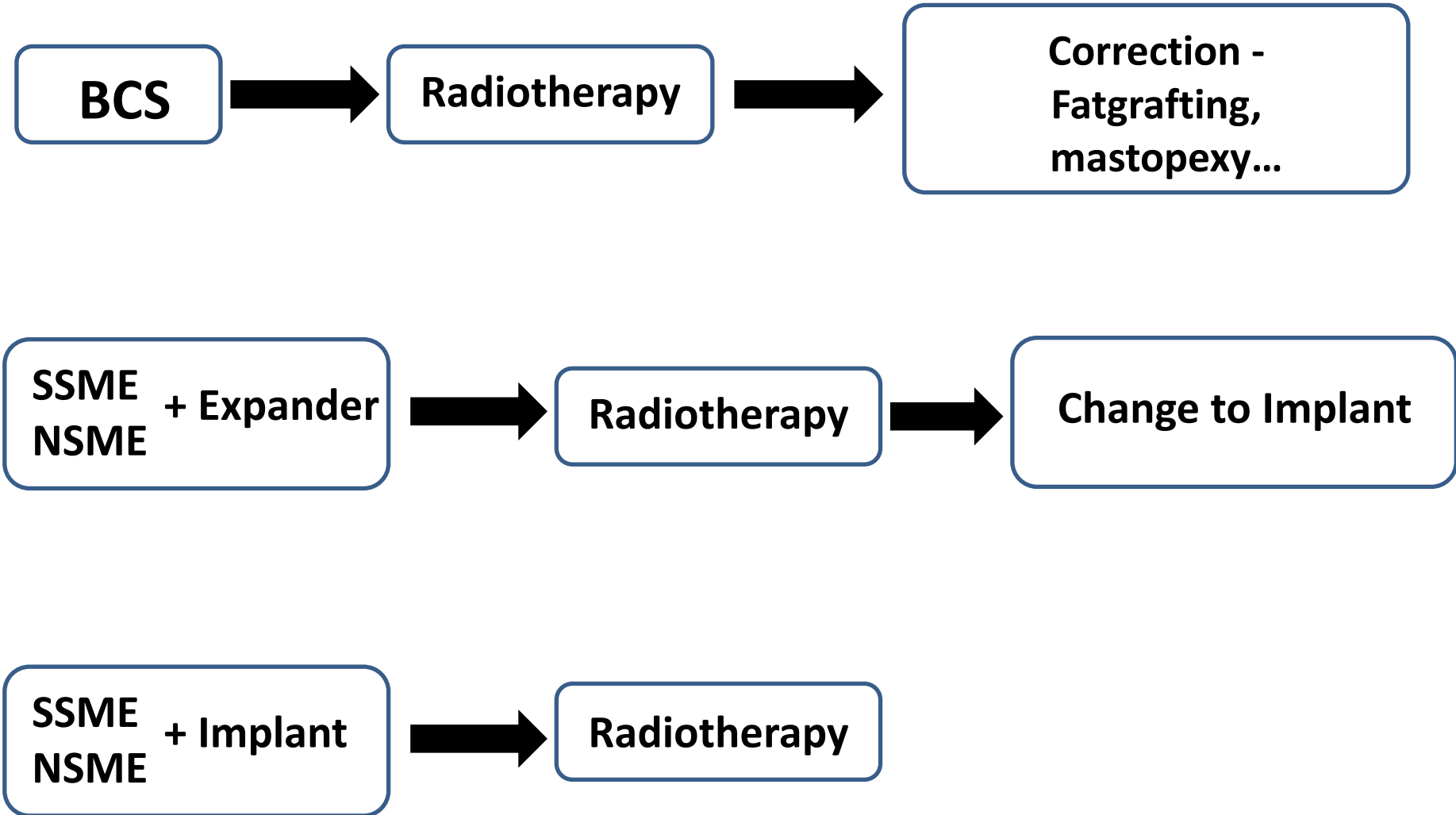
- Ionizing radiation
- 3D planning
- Standart dose is 2Gy in 25 fractions in 5 weeks



Breast cancer radiotherapy

- The main goal is to apply a maximum dosage to the precisely targeted volume with a minimal damaging of a healthy tissue
- The objective is to eradicate any tumor deposits remaining following the surgery
- It reduces risk of locoregional recurrence and improves breast cancer-specific and overall survivals

Current trends



Irradiation and implants

- 2018 Lo Torto et. al. investigate the effect of radiotherapy protocol on silicone breast implants
- Polyurethane implants seem to be more resistant to radiotherapy damage



NCCN Guidelines 3.2015

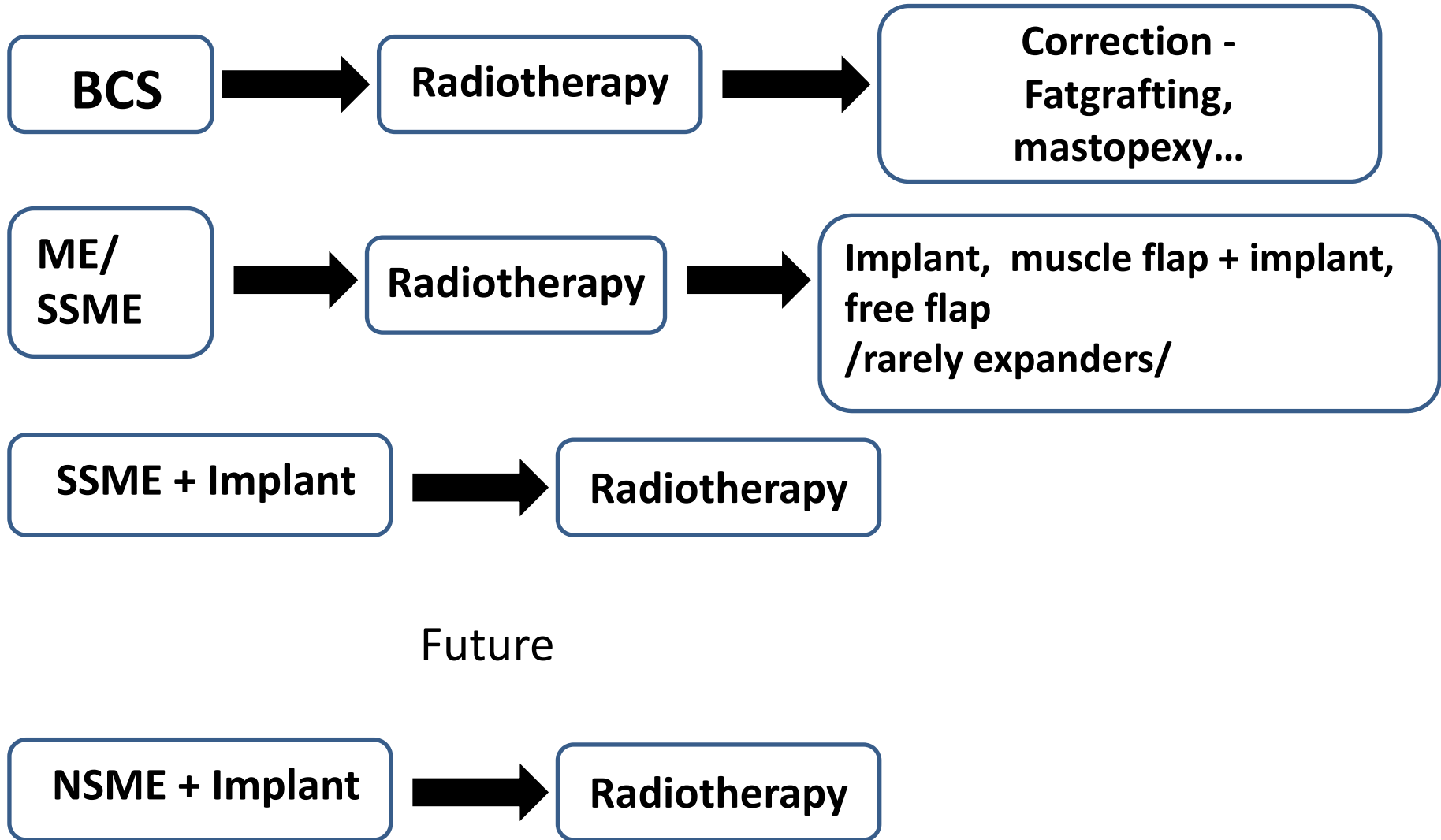
- Skin sparing mastectomy - standard
- Postmastectomy radiotherapy after SSM /SRM/ with immediate breast reconstruction IBR is the same as after mastectomy

SSM with IBR



Budapest, Hungary, June 13th 2019

Meanwhile in the Czech Republic



History

SSM

- Toth, Lappert **1991**

IBR

- Kroll
1991 SSM + IBR
- 100 women
- follow-up 23,1
- LR 1

BCS with adjuvant radiotherapy



Budapest, Hungary, June 13th 2019

BCS with adjuvant radiotherapy



Budapest, Hungary, June 13th 2019

Adjuvant radiotherapy without reconstruction



Budapest, Hungary, June 13th 2019

Delayed reconstruction after adjuvant radiotherapy



Immediate reconstruction without adjuvant radiotherapy



Immediate reconstruction without adjuvant radiotherapy



Immediate reconstruction without adjuvant radiotherapy



SRME /wise pattern/ with adjuvant radiotherapy



Immediate reconstruction with adjuvant radiotherapy



Budapest, Hungary, June 13th 2019

Immediate reconstruction with adjuvant radiotherapy



Complications of radiotherapy

- Dryness, itching, burnt skin and blistering
- Shrinkage of the skin /scar/
- Depigmentation
- Hyperpigmentation



Complications of radiotherapy with implants

- Capsular contracture
- Implant failure /28%/



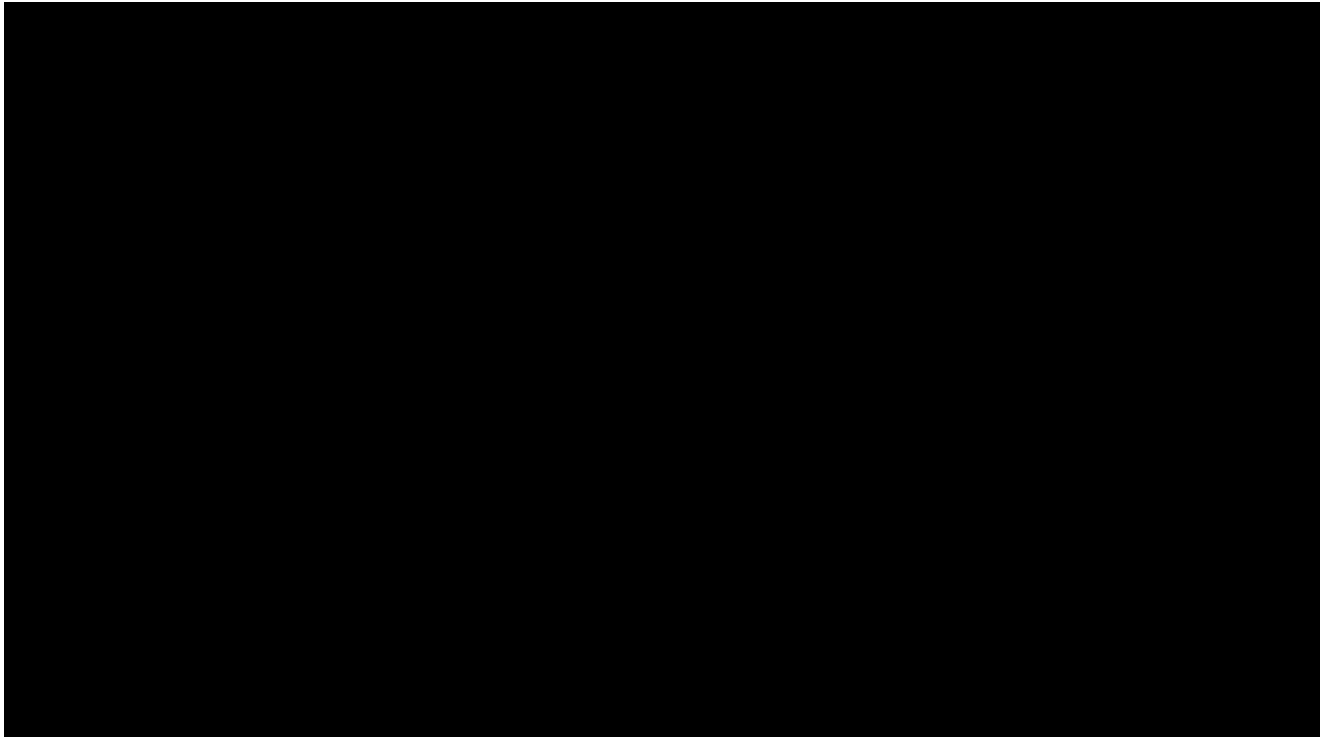
Conclusion

- The esthetic result of breast reconstruction is much better with immediate reconstruction followed by radiotherapy, than delayed reconstruction after the radiotherapy!

Conclusion

- Quality of life

Sometimes you think you can't go on



Thank you for your attention



Budapest, Hungary, June 13th 2019