

Integration of Local Therapy with Systemic Treatment in Oligometastatic Disease

ESMO-ESTRO-ESSO Joint Symposium

Introduction

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Disclosure slide

- I have no COI to declare

Clinical Presentation of Malignant Disorders

Local Malignant Growth

Oligometastatic Disease

Plurimetastatic Disease



S. Hellman & R. Weichselbaum, J. Clin. Oncol. 1995

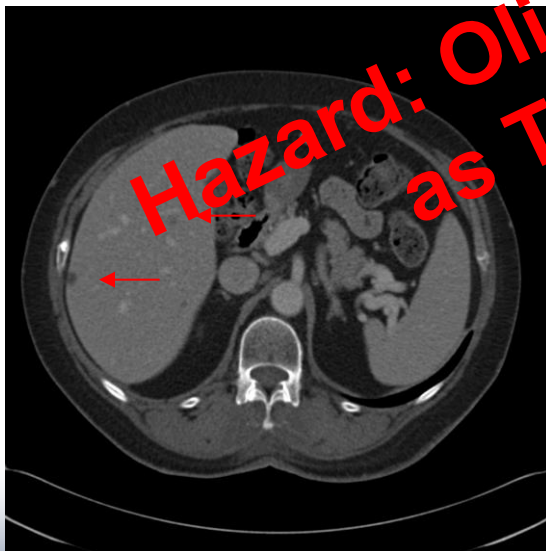
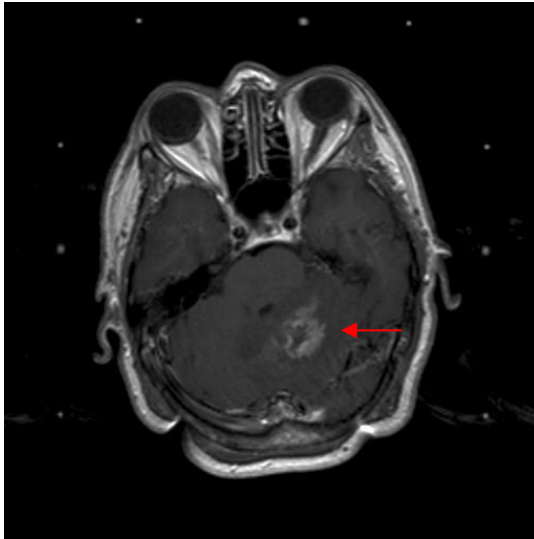
S. Hellman, J. Clin. Oncol. 1994

Definition of Oligometastatic Disease

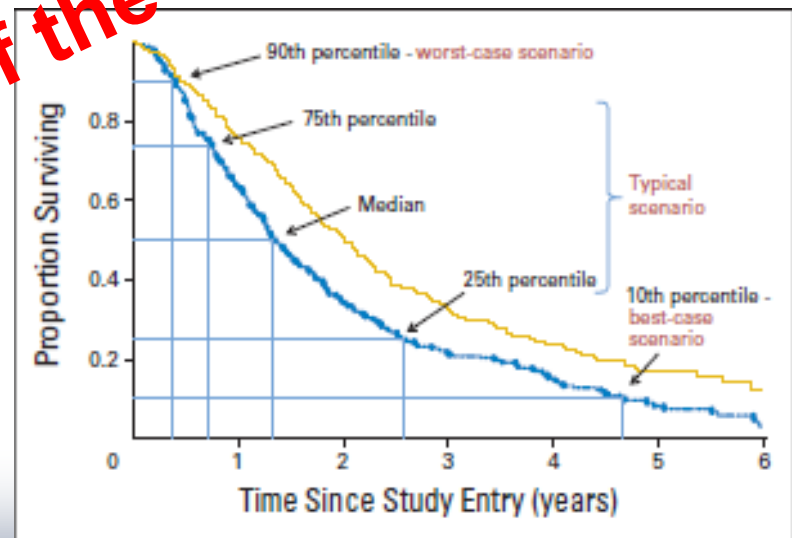
1-3 or 1-5 Metastases

Synchronous
Metachronous

Concept: Long-Term Survival after Ablation of Oligometastatic Disease



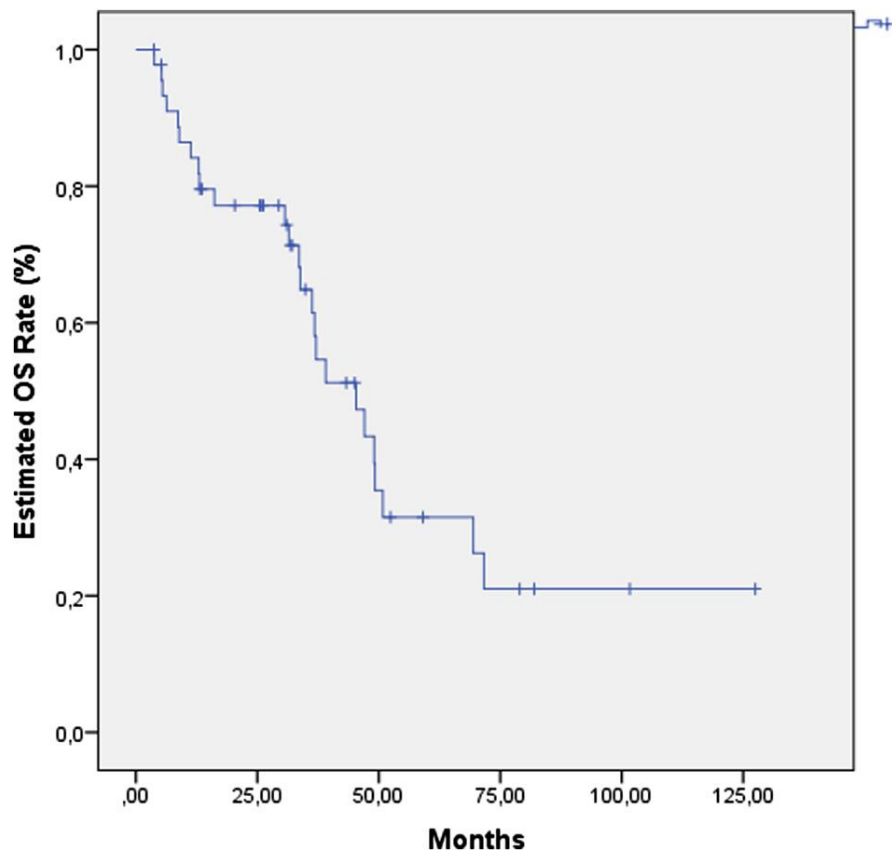
Hazard: Oligometastatic Disease as Tip of the Iceberg



The Oligometastatic Disease Paradigm

**„Patients with Malignancy and a Small
Number of Metastases if Treated
Aggressively by Local Interventions (Surgery,
Stereotaxy, etc) Might Achieve Long-Term
Survival.“**

Overall Survival from First Pulmonary Metastasectomy in Soft Tissue Sarcoma. *



- S. Schur et al., Eur J Cancer 2014 Jul 2. pii: S0959-8049(14)00659-5. doi: 10.1016/j.ejca.2014.05.009

Treatment of Oligometastatic Disease

Few Randomized Trials*

**Numerous Non-Randomized Trials and Clinical
Observations on Various Patient Sizes with Various
Diagnoses****

* T. Aberg et al., J Thorac Surg 1980; R. Patchell et al., N. Engl. J. Med. 1990; P. McCormack et al., Arch Surg 1992; S. Okumura, J Thorac Cardiovasc Surg 1996; D. Andrews et al., Lancet 2004; T. Ruers et al., Ann Oncol 2012

** J. Barney et al., J. Urol 1939; J.A. van Dongen et al., Cancer Treat. Rev. 1978; J. Wagner et al., Ann. Surg. 1984; B. Nordlinger et al., Cancer 1996; S. Hellman & R. Weichselbaum, J. Clin. Oncol. 1995; M. Selzner et al., Surgery 2000; T. Tanvetyanon et al., J Clin Oncol 2008; E. Morris et al., Br. J Surg. 2010; H. Pan et al., Cancer 2011; P. Gray et al., Lung Cancer 2014; S. Schur et al., Eur. J. Cancer 2014

Lots of Questions in Oligometastatic Disease

- **Longitudinal Concepts Including Systemic and Local Therapies (Delay of Systemic Therapy, Abscopal Effect)**
- **(Supreme or Different?) Efficacy of Local Therapies incl. Surgery, Radiotherapy and Radiofrequency Ablation**
- **Predictive Factors (micro-RNAs?)**
- **Divergent Molecular Characteristics?**

Randomized Trials:

RTOG 0937 (NSCLC) Trial: PCI +/- Radiotherapy

NSCLC Randomized Phase II Trial: Chemotherapy +/- Local Intervention

PulMiCC Trial: Pulmonary Metastasectomy in mCRC

SABR-COMET Trial: Chemo-/Radiotherapy +/- Stereotactic Ablative Radiotherapy

PRIMULA Study (PI: PierFranco Conte, Padova)