

SOUS LE PATRONAGE DU MINISTÈRE DE LA SANTÉ

5^{ème} CONGRÈS
NATIONAL
DE LA STOM

STOM
Société Tunisienne d'Oncologie Médicale

Ensemble pour une oncologie Tunisienne meilleure

18 OCTOBRE
19 2019

Hôtel Mövenpick du lac-Tunis



Cancer du poumon oligométastatique: un casse tête dans la prise en charge?

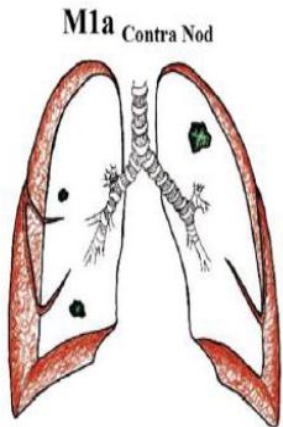
Nesrine Mejri, MD
Service d'oncologie médicale de l'Ariana (SOMA)

18-19 Octobre 2019

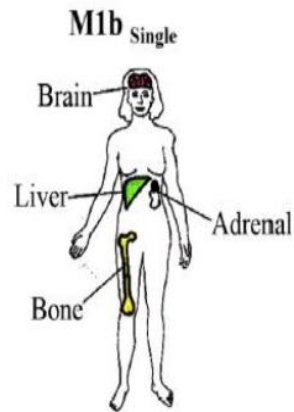
C'est une entité maintenant reconnue

Different outcome in oligometastatic disease in lung and other organs
(recognised in TNM version 8)

Stage IVA

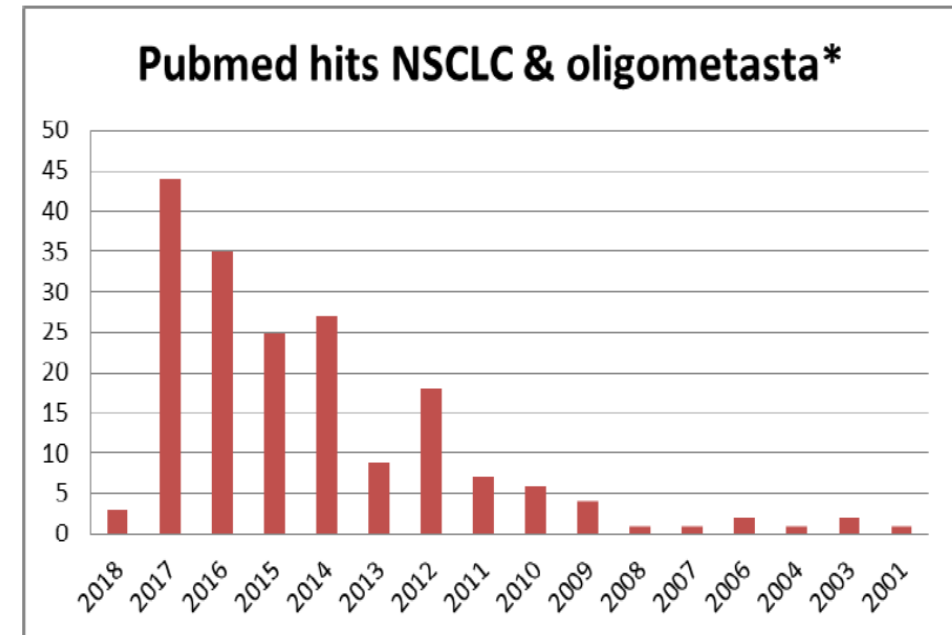


Stage IVB



Detterbeck CHEST 2017

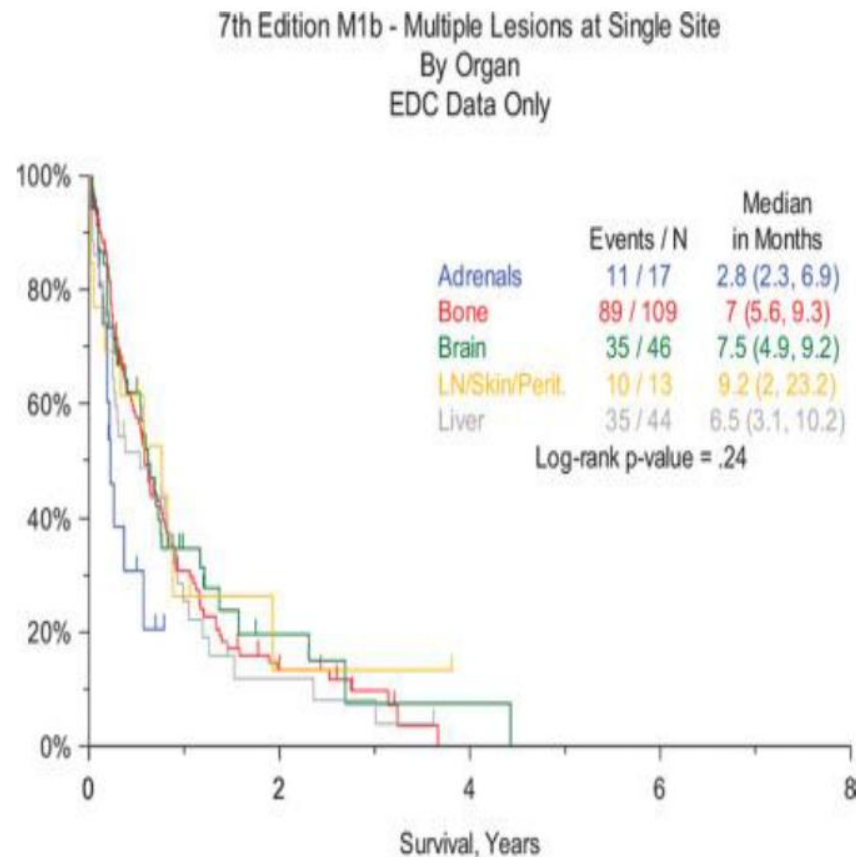
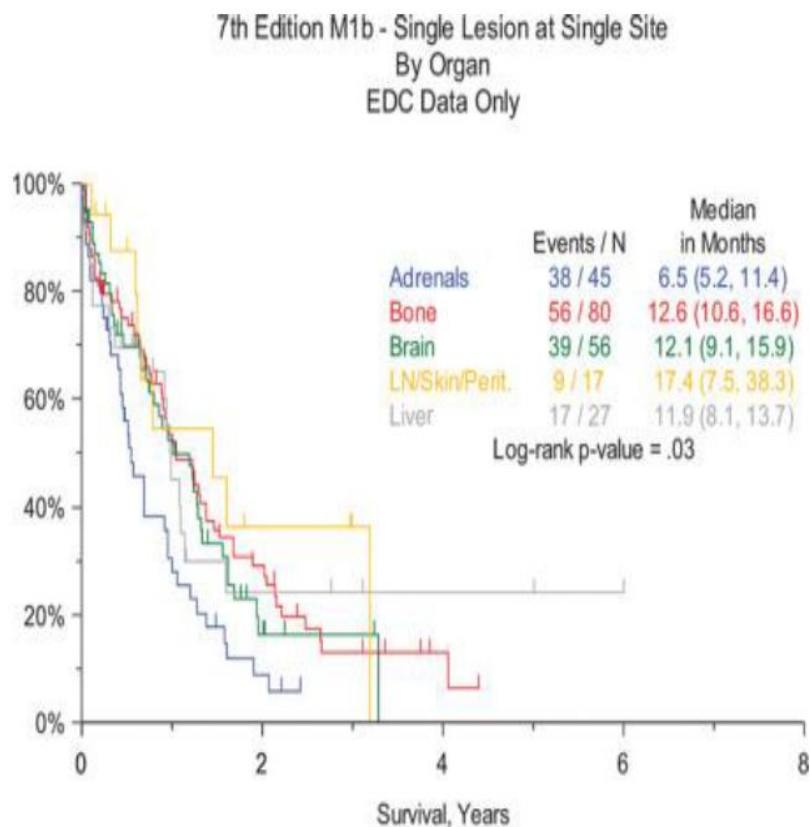
Première mention 1995 Hellman and Weichselbaum (J Clin Oncol, 1995)



Lung Cancer TNM 8th edition

- ▶ M1a Separate tumor nodule(s) in a contralateral lobe
- ▶ M1b Single extrathoracic metastasis
- ▶ M1c Multiple extrathoracic metastasis

Tous les Oligo métastatiques ne se comportent pas de la même façon!



-Le foie c'est le pire

-Le cerveau pas particulièrement de mauvais pronostic

Indulgence

- ▶ Très peu de données robustes
- ▶ La majorité des études sont des études observationnelle
- ▶ Pas d'essai clinique phase III
- ▶ Mais le futur est prometteur!

La définition d'une MOM?

- ▶ Est-ce une question de nombre? Il existe différentes définitions, 1 à 5 organes, 1 à 5 lésions dans un organe
- ▶ Est-ce une question de faisabilité? Toutes les lésions sont traitables de façon curative avec toxicité acceptable
- ▶ Est-ce une question de disponibilité de moyens thérapeutiques permettant un traitement efficace du primitif et des métastases

La plus grande méta analyse

Individual Patient Data Meta-Analysis: 757 patients with 1-5 synchronous or metachronous metastases

Median OS **26 months**, 1-year OS 70.2%, and 5-year OS **29.4%**

Surgery was commonest treatment for both primary (84%) and metastases (62%)

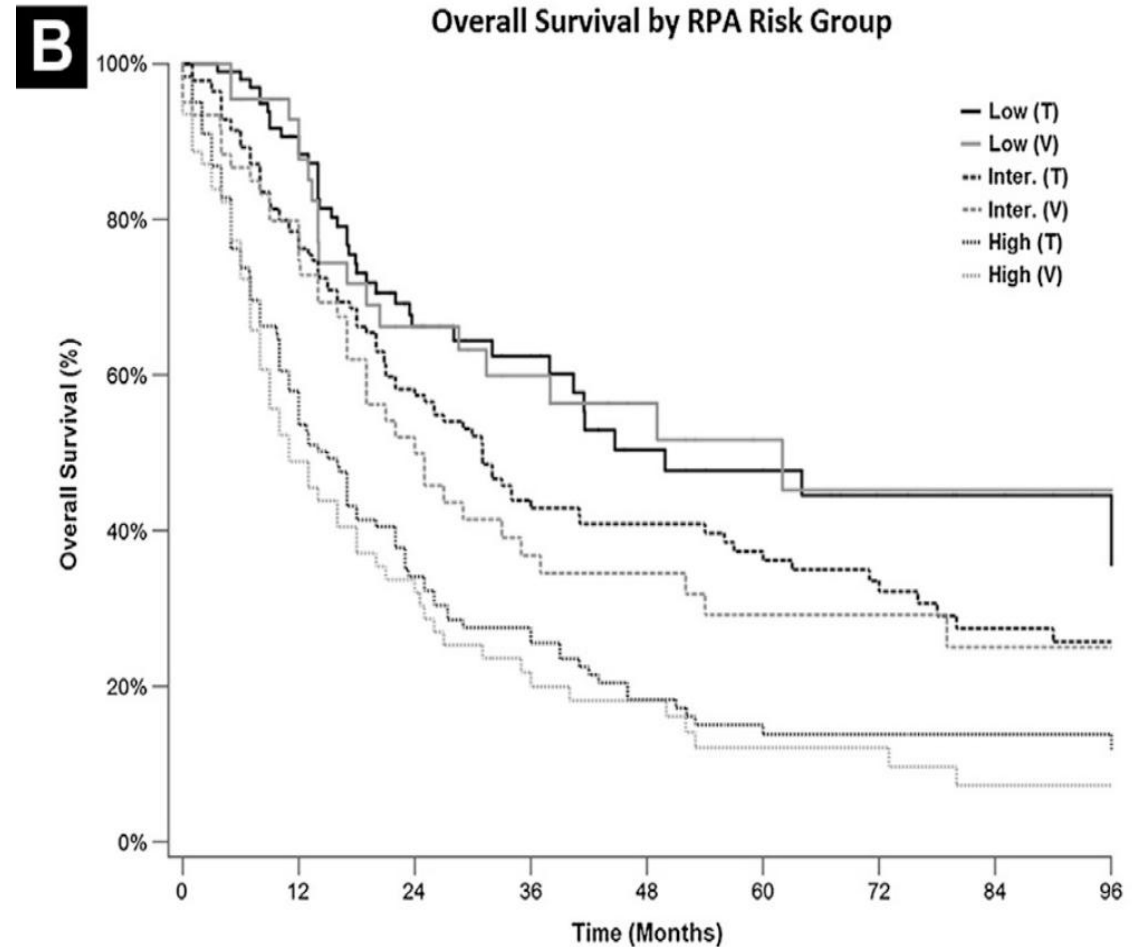
Recursive Partitioning Analysis for risk groups:

Low risk: metachronous metastases (5-year OS 48%)

Intermediate risk: synchronous metastases, N0 disease (5-year OS 36%)

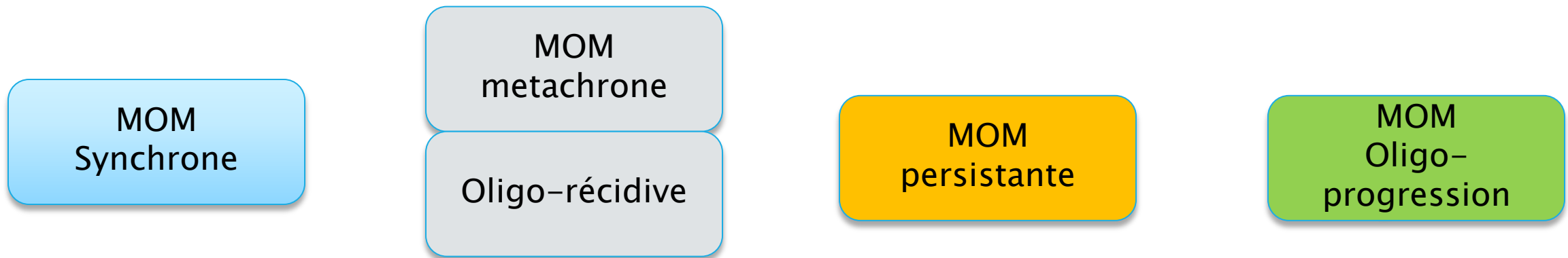
High risk: synchronous metastases, N1/N2 disease (5-year OS 14%)

Treated with surgical metastasectomy, stereotactic radiotherapy or radical EBRT and curative treatment of the primary lung cancer



Ashworth et al., Clin Lung Cancer 2014

Pour avancer sur la sélection des malades



- A la présentation ou métastases **synchrones**
- **Oligorecidive** métastatique après une période de maladie sous contrôle (metachrone)
- Maladie **oligopersistante** après une réponse au traitement systémique pour une maladie disséminée
- Maladie **Oligoprogressive** dans le cadre d'un traitement systémique qui permet un contrôle partiel de la maladie

MOM
Fake

**MOM
Synchrone**

**Risque
intermédiaire**

MOM
metachrone

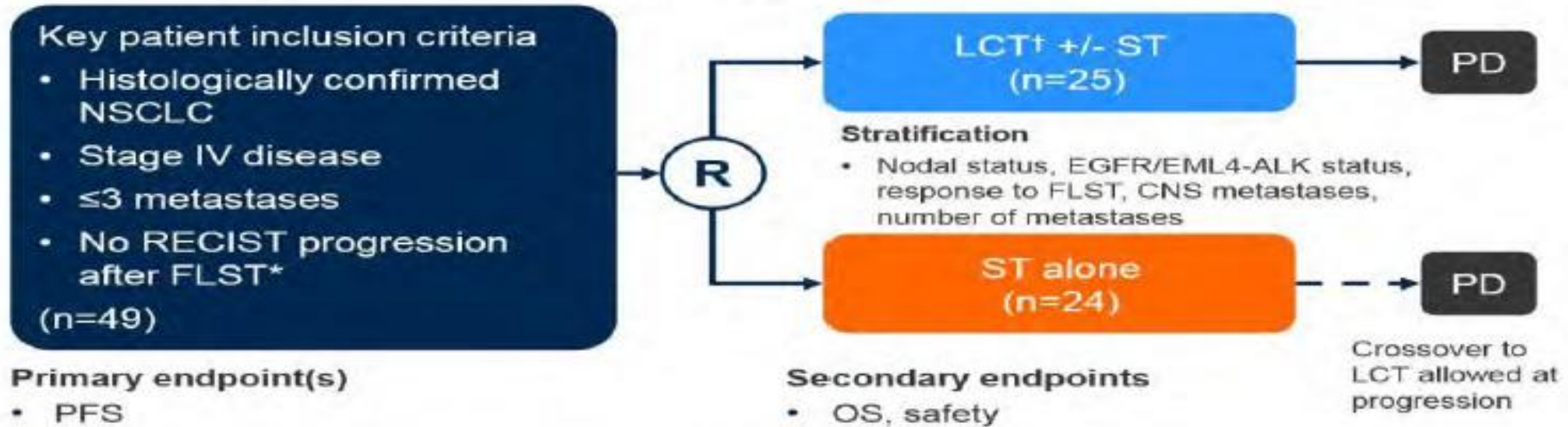
Oligo-récidive

MOM
persistante

MOM
Oligo-
progression

9004: Local consolidative therapy (LCT) to improve progression-free survival (PFS) in patients with oligometastatic non-small cell lung cancer (NSCLC) who receive induction systemic therapy (IST): Results of a multi-institutional phase II randomized study
 – Gomez D et al

- **Study objective**
 - To investigate the effect of aggressive LCT in patients with oligometastatic NSCLC who did not progress after front-line systemic therapy (FLST)*



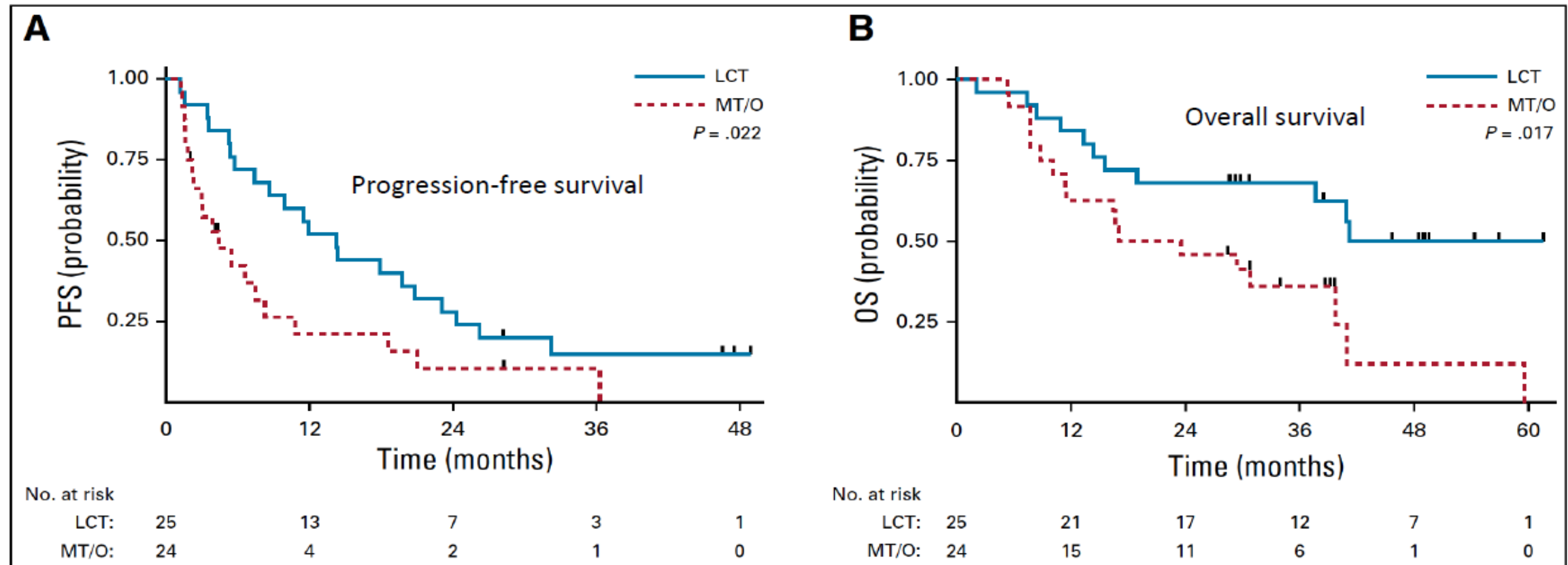
*≥4 cyc afatinib therapy [chemo]

*≥4 cycles of platinum-doublet chemotherapy, ≥ 3 months of erlotinib, afatinib or gefitinib therapy if EGFR mutation or ≥ 3 months of crizotinib therapy if EML4-ALK fusion; †LCT, local consolidative therapy (i.e. [chemo]radiation or surgical resection of all sites); ST, systemic therapy

; 34 (suppl): abstr 9004

Gomez, Lancet Oncol 2016

Oligometastatic NSCLC without progression after first-line systemic therapy: A randomised, phase 2 study



Gomez DR, JCO 2019

Type of local consolidative therapy used

- Hypofractionated RT or SABR in 48%
- Surgery and RT for 24%
- Chemo-RT for 8%
- Hypofractionated RT and CT-RT for 12%
- Surgery only for 4%

Deux principaux essais randomisés



- ▶ Gomez et al., JCO 2019
- ▶ Iyengar P et al. JAMA Oncol 2018

Deux essais sont en cours (SBRT in oligometastatic NSCLC)

- ▶ STOP trial (NCT02756793)
- ▶ HALT (NCT03256981)

	Gomez D, Lancet Oncol 2016	Iyengar P, JAMA Oncol 2017
Design	Randomized	Randomized
Number of patients	48	29
PFS	11.9 months (5.7–20.9) vs 3.9 months (2.3 – 6.6)	9.7 months vs 3.5 months
Median OS	37 vs 9.4, p=0.034	
	Closed by IDMC	Closed by IDMC

Local ablative treatment for synchronous single organ oligometastatic lung cancer— A propensity score analysis of 180 patients

Nikolaj Frost ^a  , Antje Tessmer ^b, Alexander Schmittl ^c, Vincent van Laak ^d, Matthias Raspe ^a, Christoph Ruwwe-Glösenkamp ^a, Matthias Brunn ^e, Carolin Senger ^f, Dirk Böhmer ^f, Sebastian Ochsenreither ^g, Bettina Temmesfeld-Wollbrück ^a, Christian Furth ^h, Bernd Schmidt ^d, Jens Neudecker ⁱ, Jens-Carsten Rückert ⁱ, Norbert Suttorp ^a, Martin Witzenrath ^{a,j}, Christian Grohé ^b

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<https://doi.org/10.1016/j.lungcan.2018.09.021>

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**Prognostic factors: T1a, N0-2,
ADK, ECOG-PS 0-1**

- ▶ **Progression-free survival (25.1 vs. 8.2 months), HR: 0.30; 95% CI, 0.21–0.43; $p < 0.001$**
- ▶ **Overall survival: 60.4 vs. 22.5 months, HR: 0.42; 95% CI, 0.28–0.62 $p < 0.001$**

Frost N et al, Lung Cancer, 2018

Nodule pulmonaire controlatéral isolé

ACCP 2013 guidelines (contralateral lobe)

- in patients with a contralateral lobe tumor nodule(s), **resection of each lesion is suggested**, provided the patient has adequate pulmonary reserve (Grade 2C).

Lung mets – strategy

- contralateral metastasis or second primary?
- which one is metastasis?
- sequence: primary first or metastasis first?
- for metastasis: surgery or SBRT?

Nodule surrénalien

- ▶ Méta surrénalienne: ou incidentaloma, besoin de confirmation?
- ▶ Séquence: primitif en premier temps?
- ▶ Surrénalectomie laparoscopique: mortalité <1% et 6% de morbidité, préférée pour les petites lésions, moins de complications post-op, moins de séjour à l'hôpital et plus d'épargne de sang.

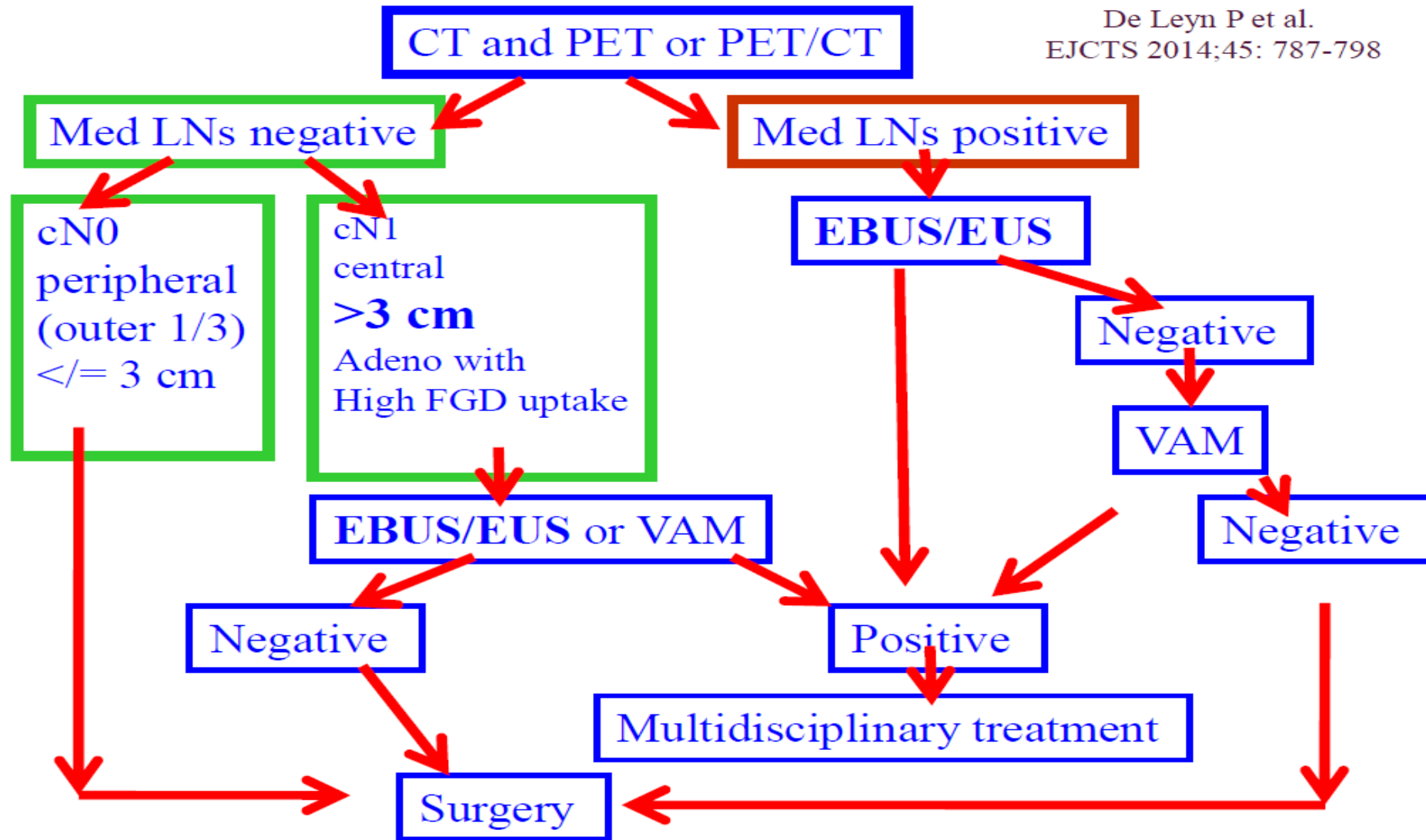
Thompson, Surgery 1997, Arenas et al., World J Surg
2014

Métastases cérébrales

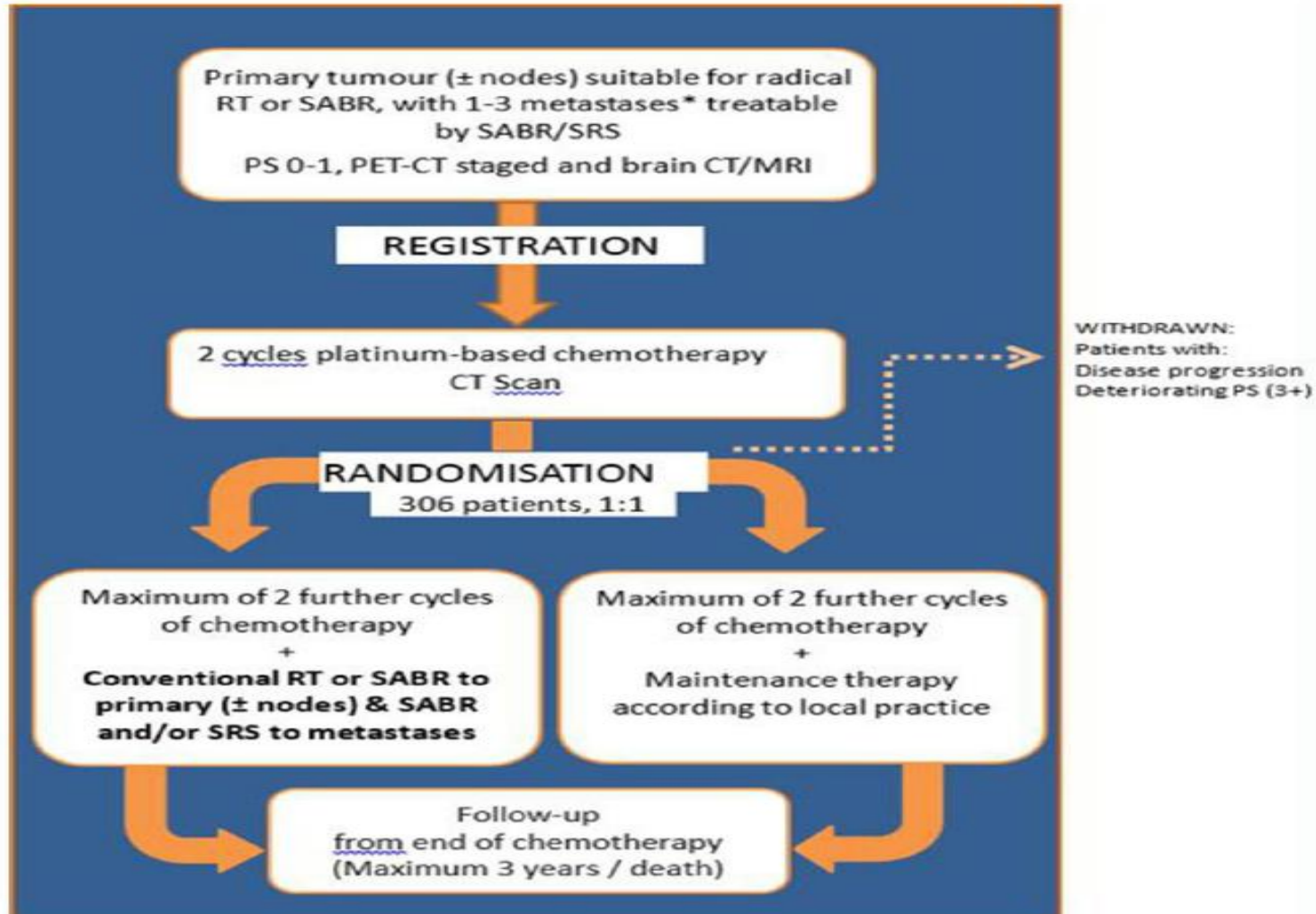
- ▶ Quelle séquence? Primitif ou métastase en premier?
- ▶ Chirurgie ou RT stéréotaxique?
- ▶ Tout depend de l'anatomie, du nombre et de la balance bénéfice risque opératoire.

La stadification médiastinale est très importante!!

De Leyn P et al.
EJCTS 2014;45: 787-798



Essais cliniques en cours: SARON



*Brain metastases can be included if at least one extra-cranial metastasis is also present.

ESMO Clinical Practice Guidelines for NSCLC

- Stage IV patients with 1-3 **synchronous** metastases at diagnosis may experience long-term DFS following systemic therapy and local consolidative therapy (**high-dose RT or surgery**) [III, B]. Because of the limited evidence, these patients should be discussed within a multidisciplinary tumour board [II, B], and inclusion in clinical trials is preferred

Planchard D, Ann Oncol updated in 2019

MOM
Synchrone

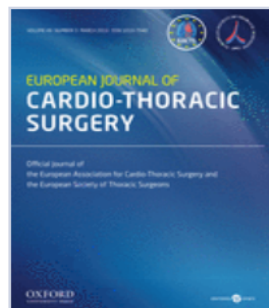
MOM
metachrone

Oligo-récidive

MOM
persistante

MOM
Oligo-
progression

Faible risque



Volume 49, Issue 3

Postoperative oligo-recurrence of non-small-cell lung cancer: clinical features and survival[†] **FREE**

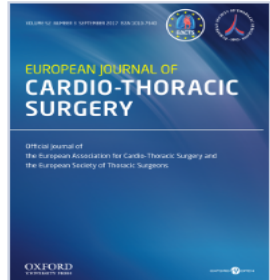
Tomoyuki Hishida ✉, Junji Yoshida, Keiju Aokage, Kanji Nagai, Masahiro Tsuboi Author Notes

European Journal of Cardio-Thoracic Surgery, Volume 49, Issue 3, March 2016, Pages 847–853,

<https://doi.org/10.1093/ejcts/ezv249>

Published: 22 July 2015 **Article history** ▼

- ▶ 162 oligorecurrent NSCLC , 1 à 3 localisations (surrénale, os, foie, cerveau).
- ▶ Initial definitive local therapy increased progression free survival HR=0,44 CI[0,29–0,68]



Volume 52, Issue 3
September 2017

Long-term survival outcome after postoperative recurrence of non-small-cell lung cancer: who is 'cured' from postoperative recurrence? FREE

Keigo Sekihara, Tomoyuki Hishida ✉, Junji Yoshida, Tomonari Oki, Tomokazu Omori, Shinya Katsumata, Takuya Ueda, Tomohiro Miyoshi, Masaki Goto, Syoko Nakasone ... [Show more](#)

European Journal of Cardio-Thoracic Surgery, Volume 52, Issue 3, September 2017, Pages 522–528,
<https://doi.org/10.1093/ejcts/ezx127>

- ▶ Prognostic factors: female [hazard ratio (HR) = 0.78], adenocarcinoma (HR = 0.77), locoregional (only) recurrence (HR = 0.59) and longer recurrence-free survival (HR = 0.99) were favorably associated with PRS
- ▶ 13% live more than 5 years

Stereotactic ablative radiotherapy versus standard of care palliative treatment in patients with oligometastatic cancers (SABR-COMET): a randomised, phase 2, open-label trial



David A Palma, Robert Olson, Stephen Harrow, Stewart Gaede, Alexander V Louie, Cornelis Haasbeek, Liam Mulroy, Michael Lock, George B Rodrigues, Brian P Yaremko, Devin Schellenberg, Belal Ahmad, Gwendolyn Griffioen, Sashendra Senthil, Anand Swaminath, Neil Kopeck, Mitchell Liu, Karen Moore, Suzanne Currie, Glenn S Bauman, Andrew Warner, Suresh Senan

▶ Phase 2, 99 patients

With oligo recurrent NSCLC

Standard of care

Standard of care+ SABR of all M+ sites

Interpretation SABR was associated with an improvement in overall survival, meeting the primary endpoint of this trial, but three (4.5%) of 66 patients in the SABR group had treatment-related death. Phase 3 trials are needed to conclusively show an overall survival benefit, and to determine the maximum number of metastatic lesions wherein SABR provides a benefit.

ESMO Clinical Practice Guidelines for NSCLC

Stage IV patients with limited **metachronous** metastases maybe treated with a radical local therapy (**high-dose RT or surgery**) and may experience long-term DFS [IV, B].

However, this is based mainly on retrospective data and inclusion in clinical trials is preferred.

Planchard D, Ann Oncol updated in 2019

MOM
Synchrone

MOM
metachrone

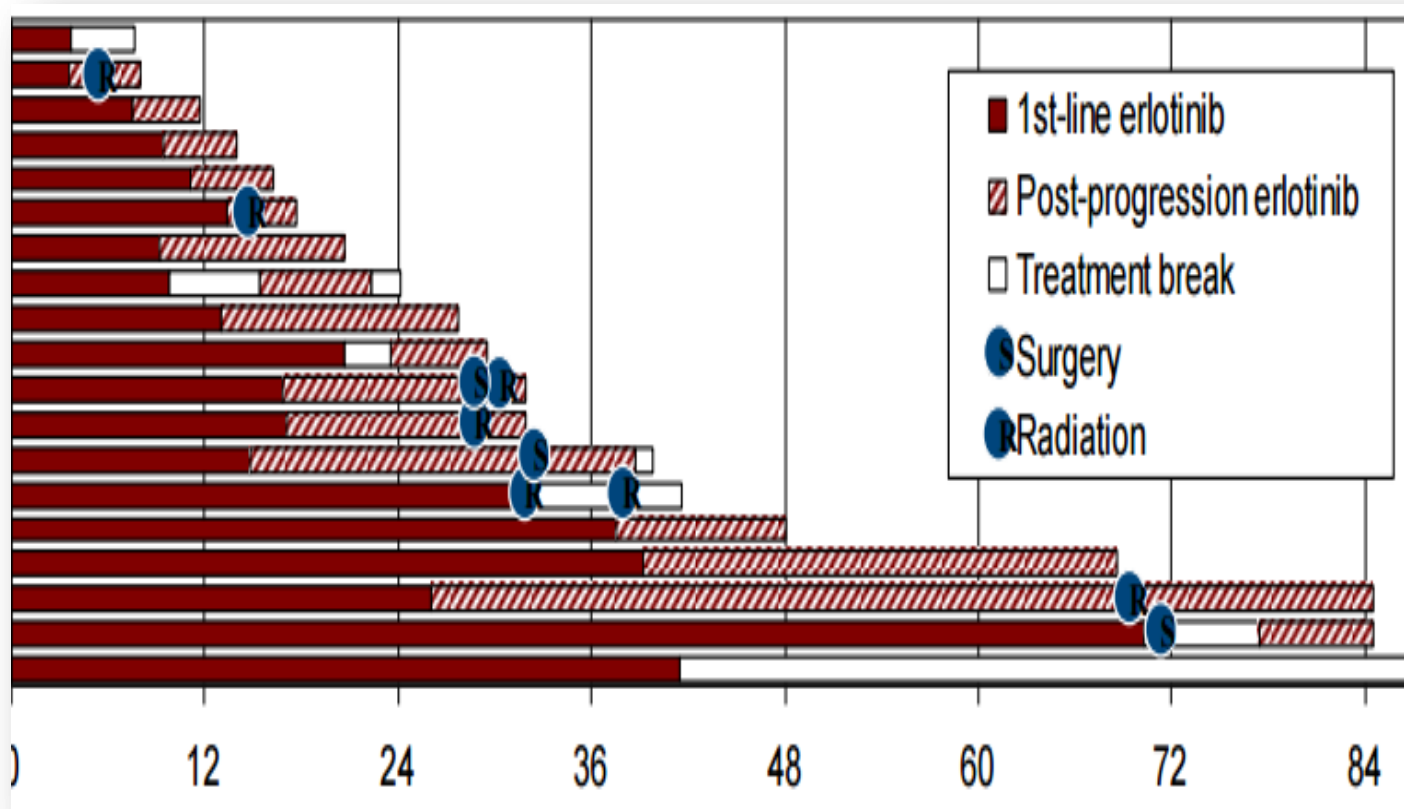
Oligo-récidive

MOM
persistante

MOM
Oligo-
progression

Haut risque

Post-progression? Peut-on continuer?



42 patients, EGFR+,
recevant Erlotinib dans 3
essais cliniques phase 3

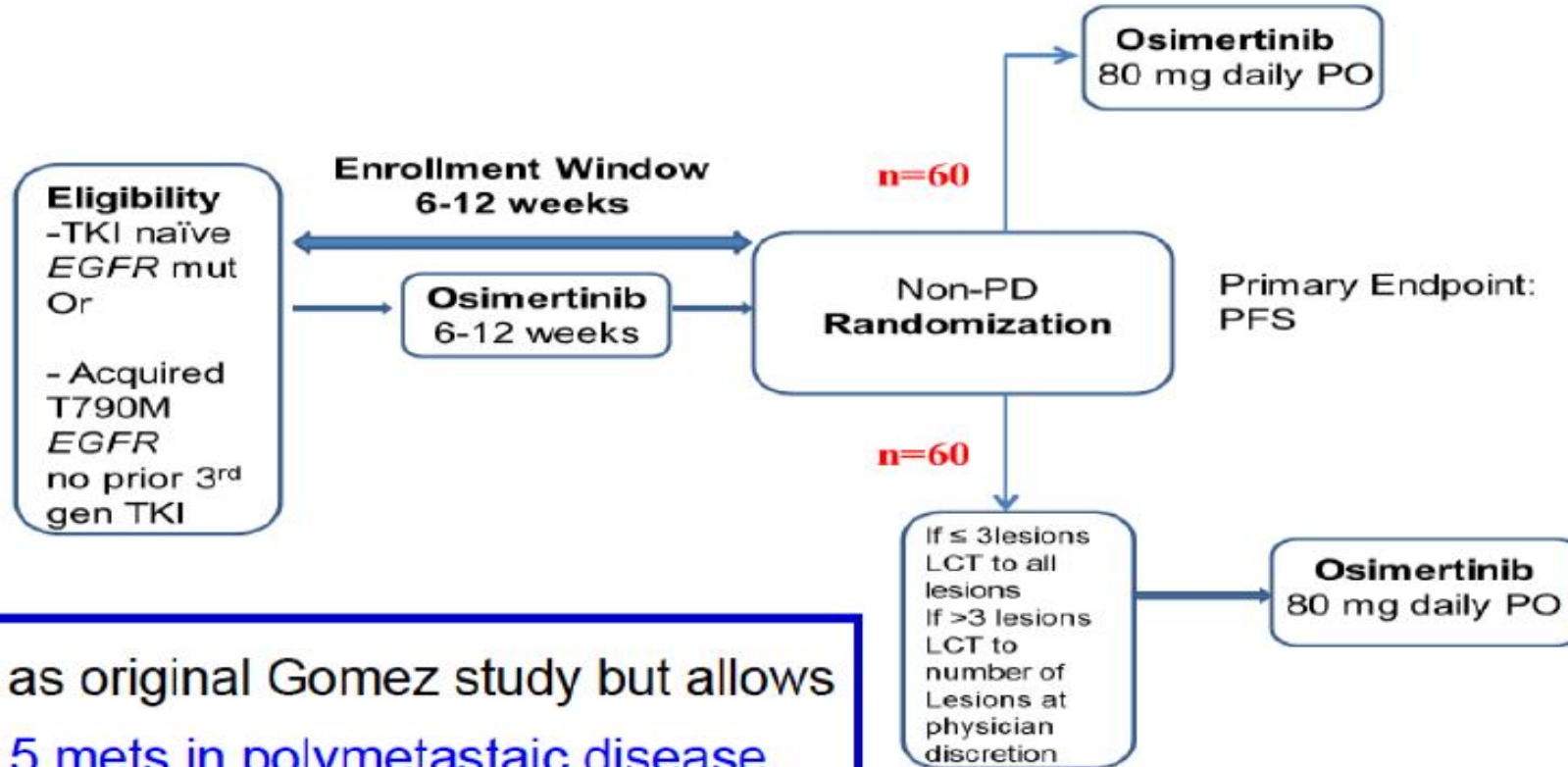
19 patients (45%) →
retarder la CT > 3 mois

9 patients (21%) →
retarder la CT > 12 mois



NORTHSTAR (synchronous EGFR+ lung)

Randomized phase II trial of osimertinib with or without local consolidation therapy for patients with EGFR-mutant metastatic NSCLC

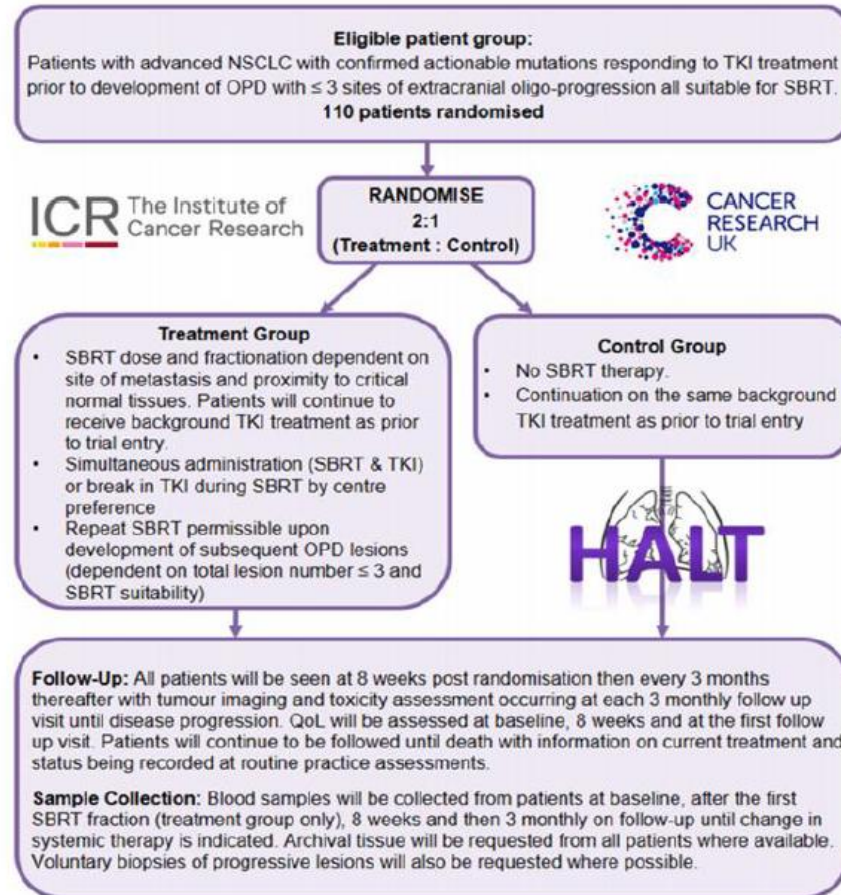


Same design as original Gomez study but allows for tx of up to 5 mets in polymetastaic disease

Slide courtesy D Gomez MDACC

Essais cliniques en cours: HALT

HALT: randomized phase II/III trial of targeted therapy with or without dose-intensified RT in oligo-progressive disease in oncogene addicted lung tumors

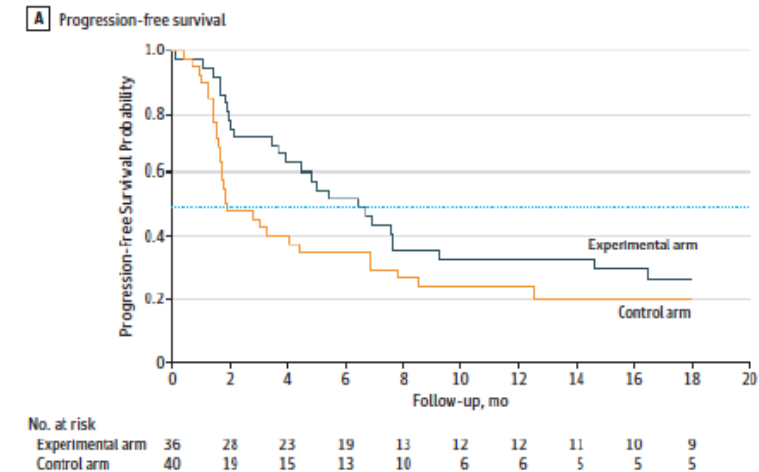


Immunotherapy \pm radiotherapy

Randomized phase II PEMBRO-RT study

3 fractions of 8 Gy
BED₁₀ = 43 Gy

	ORR at 12 wks	Median PFS	Median OS
Control arm (n = 40)	18%	1.9 months (95%CI, 1.7-6.9 months)	7.6 months (95%CI, 6.0-13.9 months)
Experimental arm (n = 36)	36%	6.6 months (95%CI, 4.0-14.6 months)	15.9 months (95%CI, 7.1 months to NR)



A doubling of the overall response rate; results did not meet the study criteria for meaningful clinical benefit

Subgroup analysis - largest benefit from the addition of radiotherapy was in patients with PD-L1-negative tumors

Abscopal effect

Theelen W, JAMA Oncol 2019

CNPC Oligométastatique

Récidive après traitement
curatif du primitif
Métachrone

Sexe féminin, ADK, long
intervalle de rechute,
rechute régionale

SBRT/chirurgie des sites
métastatiques d'emblée

Discuter un traitement
adjuvant

Métachrone

PET-CT

Staging médiastinal

N1 / N2

Traitement
standard de
1^{ère} ligne

Le stade oligométastatique soulève beaucoup de questions

- ▶ Chez certains patients peut-on parler de guérison? survie 40% à 5 ans
- ▶ C'est rare mais c'est possible
- ▶ Les facteurs pronostiques existent mais les facteurs prédictifs non
- ▶ De plus en plus fréquente: moyens diagnostiques / thérapeutiques
- ▶ La surveillance après un traitement initial?



Merci



One randomised study with Brain mets as focus



Séquelles pour
les longs
survivants

- Just another OMD site
- 1-4 asymptomatic BrMs
- chemotherapy starting within 3 weeks of SRS.
- Korea, recruited 105 patients over 5 years and closed early.

	SRS-CT	CT alone
OS mths	14.6	15.3
sym brain PD	18.4%	26.5%
RR in brain	57%	37%
RR	43	40%.

- This potential **8%** improvement in symptomatic BrM progression might be clinically relevant but would need a large trial to document this.

Lim et al Ann Oncol 2015 ;26(4):762-8

2 essais cliniques/méta-analyses: pas de différence entre SRS+WBRT
vs WBRT