IN BRIEF

LUNG CANCER

Dacomitinib delays disease progression

The findings of a phase III trial comparing the efficacy of the second-generation tyrosine-kinase inhibitor (TKI) dacomitinib with that of the first-generation TKI gefitinib in patients with newly diagnosed non-small-cell lung cancer reveal superior progression-free survival in the dacomitinib group (14.7 versus 9.2 months; P < 0.0001). However, dacomitinib also substantially increased the risk of grade ≥ 3 adverse events (in 51% versus 30% of patients), including two treatment-related deaths in the dacomitinib group versus one in the gefitinib group.

ORIGINAL ARTICLE Wu, Y. Let al. Dacomitinib versus gefitinib as first-line treatment for patients with EGFR-mutation-positive non-small-cell lung cancer (ARCHER 1050): a randomised, open-label, phase 3 trial. Lancet Oncol. $\frac{http://dx.doi.org/10.1016/S1470-2045(17)30608-3 (2017)}{http://dx.doi.org/10.1016/S1470-2045(17)30608-3 (2017)}$

THYROID CANCER

Cabozantinib effective in selected patients

The final overall survival (OS) analysis of data from the phase III EXAM trial reveal no significant improvement in OS with the tyrosine-kinase inhibitor cabozantinib, relative to placebo, in unselected patients with progressive medullary thyroid cancer. However, in an exploratory analysis, selected patients with tumours harbouring the RET^{M918T} mutation had a significant improvement in median OS in response to cabozantinib (44.3 months, versus 18.9 months in patients receiving placebo; P = 0.03), indicating that cabozantinib is an effective treatment of patients with RET^{M918T} -positive disease.

 $\label{eq:original_article} \begin{tabular}{ll} \textbf{ORIGINAL ARTICLE} Schlumberger, M. et al. Overall survival analysis of EXAM, a phase 3 trial of cabozantinib in patients with radiographically progressive medullary thyroid carcinoma. {\it Ann. Oncol. } \underline{http://dx.doi.org/10.1093/annonc/mdx479} (2017) \\ \end{tabular}$

■ BREAST CANCER

LAG3 expression indicates favourable outcomes

An analysis of prognostic biomarkers in patients with breast cancer has revealed a statistically significant association between the presence of lymphocyte activation gene 3 (LAG3)-expressing intraepithelial tumour-infiltrating lymphocytes (iTILs) and improved breast-cancer-specific survival (BCSS) outcomes (HR 0.71; 95% CI 0.56–0.90). Furthermore, a high proportion of PD-L1+ (53%) or PD-1+ (61%) tumours were infiltrated with LAG-3+ iTILs. Notably, concurrent infiltration with LAG-3+CD8+ iTILs conferred even more favourable BCSS, thus supporting a role for combination immune-checkpoint inhibition in selected patients.

ORIGINAL ARTICLE Burugu, S. et al. LAG-3+ tumor infiltrating lymphocytes in breast cancer: clinical correlates and association with PD-1/PD-L1+ tumors. *Ann. Oncol.* $\frac{http://dx.doi.org/10.1093/annonc/mdx557 (2017)$

LUNG CANCER

SABR effective against oligometastatic disease

Data from a comparative phase II study reveal improvements in progression-free survival among patients with oligometastatic non-small-cell lung cancer (\leq 5 metastases) receiving consolidative stereotactic ablative radiotherapy (SABR) plus maintenance chemotherapy after induction chemotherapy, relative to those receiving chemotherapy alone (9.7 months versus 3.5 months; P = 0.01). SABR, delivered to all disease sites, had no marked effect on the risk of adverse events, indicating a need for further trials of this approach in larger cohorts.

ORIGINAL ARTICLE lyengar, P. et al. Consolidative radiotherapy for limited metastatic non-small-cell lung cancer. JAMA Oncol. http://dx.doi.org/10.1001/jamaoncol.2017.3501 (2017)