

**Conclusions:** In this large study, safety and efficacy of Bev combined with taxane-based therapy was similar to E2100 and AVADO results. Bev has minimal impact on the safety profile of CT. Hypertension >G3 was reported in 0.1% of pts (4% G3) and only 1 pt (<0.1%) had Bev-related cerebral haemorrhage. No new Bev-related safety signals were observed. Roche sponsored MO19391.

## 5018

## POSTER DISCUSSION

**Quality of life (QoL) in patients (pts) treated with bevacizumab (BV) and taxane therapy for locally recurrent (LR) or metastatic breast cancer (mBC)**

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**Background:** In the randomised, double-blind, phase III AVADO study, addition of two different doses of the anti-VEGF therapy BV (Avastin®) to docetaxel (D) significantly improved PFS and response rates compared with placebo (PL) and D in the first-line treatment of mBC. Another phase III trial, E2100, showed significant improvements in efficacy on addition of BV to paclitaxel (PAC) in this setting. In addition, an FDA pre-specified statistical analysis showed a significantly better QoL in pts treated with BV+PAC. In both studies, BV had only limited impact on the known safety profile of the taxanes used.

**Materials and Methods:** In AVADO, pts completed a Functional Assessment of Cancer Therapy-Breast (FACT-B) questionnaire, comprising generic and breast cancer-specific components, at baseline (n=656 of 736 enrolled), weeks 9 (n=570), 15 (n=510) and 33 (n=289). The present exploratory QoL analysis is based on the same imputation rule recommended by the FDA for the E2100 study, which imputed missing QoL scores (due to death or disease progression) with zero (worst possible).

**Results:** We show here results for TOT-B (total FACT-B score) and for TOI-B (trial outcome index; including physical and functional well-being generic elements and the breast cancer-specific subscale). Baseline TOT-B and TOI-B scores were balanced between arms. Mean changes to baseline scores were significantly better in BV+D treatment arms compared with PL+D except for week 9 with 15 mg/kg BV and week 33 with 7.5 mg/kg BV (Table).

**Conclusions:** Patients treated with BV in combination with taxanes as first-line treatment for mBC experienced significantly better QoL changes at most timepoints compared with those treated with PL+D. This is consistent with E2100 data, which also demonstrated significantly better scores in the BV+PAC arm compared with PAC alone.

Assessment	Mean change from baseline (95% CI); p value vs PL + D		
	PL + D	BV 7.5 mg/kg + D	BV 15 mg/kg + D
<b>Week 9</b>			
TOI-B (n=615)	-11.4 (-14.7, -8.2)	-7.0 (-9.8, -4.2); <b>0.0220</b>	-8.8 (-11.6, -6.0); <b>0.3224</b>
TOT-B (n=611)	-15.8 (-21.0, -10.6)	-10.1 (-14.7, -5.5); <b>0.0412</b>	-12.0 (-16.5, -7.5); <b>0.4587</b>
<b>Week 15</b>			
TOI-B (n=590)	-19.9 (-23.7, -16.1)	-12.5 (-15.7, -9.3); <b>0.0041</b>	-12.0 (-15.2, -8.8); <b>0.0050</b>
TOT-B (n=587)	-29.4 (-35.6, 23.1)	-17.9 (-23.1, -12.8); <b>0.0042</b>	-17.0 (-22.1, -11.8); <b>0.0094</b>
<b>Week 33</b>			
TOI-B (n=535)	-34.3 (-39.1, -29.6)	-29.4 (-34.1, -24.7); <b>0.0866</b>	-25.2 (-29.8, -20.6); <b>0.0092</b>
TOT-B (n=532)	-56.0 (-63.6, 48.3)	-48.2 (-55.9, -40.5); <b>0.1001</b>	-40.6 (-48.1, -33.1); <b>0.0080</b>

## 5019

## POSTER DISCUSSION

**Pegylated liposomal doxorubicin and Bevacizumab as first-line therapy for locally recurrent or metastatic breast cancer – a multicenter, single-arm phase II trial of the Swiss Group for Clinical Cancer Research (SAKK)**

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**Background:** Bevacizumab in combination with taxanes has become a standard first-line treatment of advanced breast cancer in some countries, but there is no information on its use in combination with pegylated liposomal doxorubicin in metastatic breast cancer. Therefore, we performed a multicenter, single-arm phase II trial to evaluate the toxicity and efficacy of pegylated liposomal doxorubicin (PLD) and bevacizumab (B) as first-line treatment in advanced breast cancer.

**Methods:** PLD at a dose of 20 mg/m<sup>2</sup> and B at 10 mg/kg were infused on days 1 and 15 of each 4-week cycle for a maximum of 6 cycles. Thereafter, B monotherapy was continued at the same dose until progression or toxicity. Primary endpoint was the occurrence of specific toxic events known to strongly interfere with quality of life, i.e. severe cardiac toxicity, any grade 4/5 toxicity, and selected grade 3 nonhematological toxicities (hand-foot-syndrome, cognitive disturbance, CNS hemorrhage, and mucositis/stomatitis). Secondary endpoints included overall response, progression free survival (PFS), time to treatment failure, and duration of response. Eligibility criteria included documentation of metastatic or inoperable breast cancer; measurable disease according to RECIST; erbB2-negativity; LVEF of ≥55%; WHO performance status 0 or 1. The study used a Herndon's two-stage design with 14 and 29 patients for stages 1 and 2, respectively. The promising rate of primary toxicity was <15% and the uninteresting rate >33%. The type I error probability was 5% and the power 80%.

**Results:** The trial had to be stopped prematurely because of toxicity after the enrollment of 41 evaluable patients. Among these patients, 16 (39%) had grade 3 hand-foot syndrome, 3 grade 3 mucositis and 1 grade 4 cardiac toxicity. A total of 18/41 (44%, exact 95% c.i. 28–60%) of all patients had a primary toxicity. Most frequent grade 2 toxicities were hand-foot syndrome (15), mucositis (14), fatigue (5), hypertension (4) and pain (4). Best overall response rate was 23.3% (exact 95% c.i. 12–39%), median PFS was 7.5 months (95% c.i. 4.6–8.1 months). Median overall survival is 15.9 months (95% c.i. 14.0–21.5 months) at a median follow-up of 14.3 months; the 1-year survival rate is 70% (95% c.i. 52–82%).

**Conclusions:** The combination of 2-weekly PLD and B in advanced breast cancer is surprisingly toxic and only modestly active and should not be further investigated.

## 5020

## POSTER DISCUSSION

**Pharmacokinetics (PK), safety, and efficacy of trastuzumab (T)-DM1, a HER2 antibody-drug conjugate (ADC), in patients with HER2+ metastatic breast cancer (MBC): phase I and phase II trial results**

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**Background:** The ADC T-DM1 combines the biological activity of T with targeted delivery of a potent anti-microtubule agent, DM1, to HER2+ cancer cells. DM1 and T are linked via a highly stable MCC thioether linker. Preclinical studies showed activity of T-DM1 in lapatinib (L)-resistant breast cancer cells, and in T-sensitive and T-refractory breast tumor models. Key PK and safety results are presented from Phase I and II (NCT00679211, Genentech, Inc.) trials of T-DM1 in pts with HER2+ MBC who had progressed on T + chemotherapy.

**Methods:** In Phase I, successive cohorts of pts received escalating doses of T-DM1 wkly or every 3 wks (q3w) until maximum tolerated dose (MTD)