

Web extra material (Appendix)

Maintenance treatment with the immunomodulator MGN1703, a toll-like receptor 9 (TLR9) agonist, in patients with metastatic colorectal carcinoma and disease control after chemotherapy: a randomised, double-blind, placebo-controlled trial

Journal of Cancer Research and Clinical Oncology

Hans-Joachim Schmoll, Burghardt Wittig, Dirk Arnold, Jorge Riera-Knorrenschild, Dieter Nitsche, Hendrik Kroening, Frank Mayer, Johannes Andel, Reinhard Ziebermayr, Werner Scheithauer

Corresponding author:

Hans-Joachim Schmoll

Department of Internal Medicine IV, Oncology/Hematology, Martin Luther University Halle-Wittenberg, Ernst-Grube-Str. 40, DE-06120 Halle, Germany

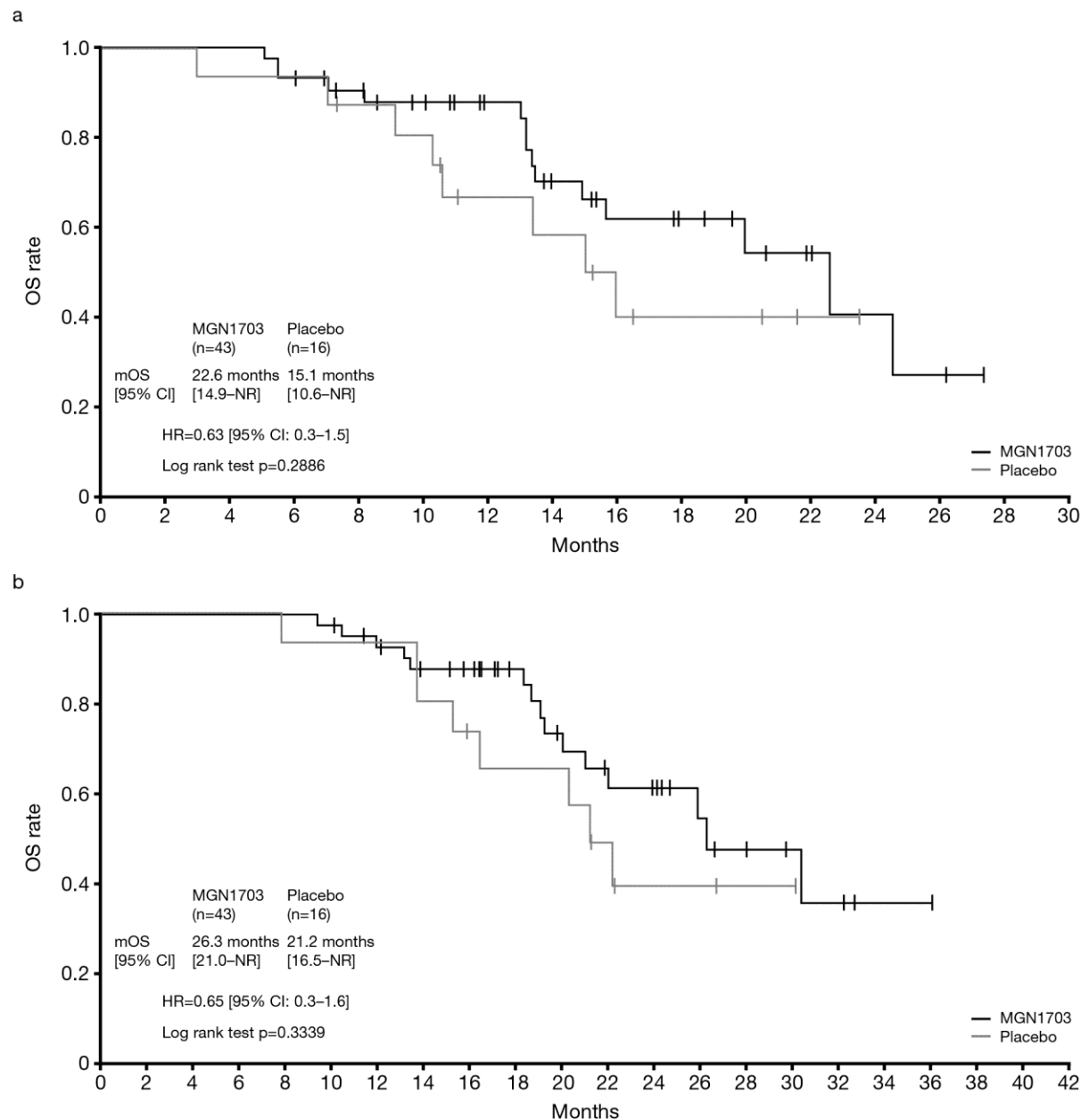
Email: hans-joachim.schmoll@uk-halle.de

Web extra material (Appendix): overall survival

Fig. S1 OS by treatment group from (a) randomisation and (b) the start of induction therapy

Data are immature (>50% of patients are censored)

CI confidence interval; HR hazard ratio; mOS median overall survival; NR not reached; OS overall survival



Data are immature (>50% of patients are censored)

Web extra material (Appendix): protocol-defined exploratory analyses of baseline patient characteristics predictive for progression-free survival

Methodology

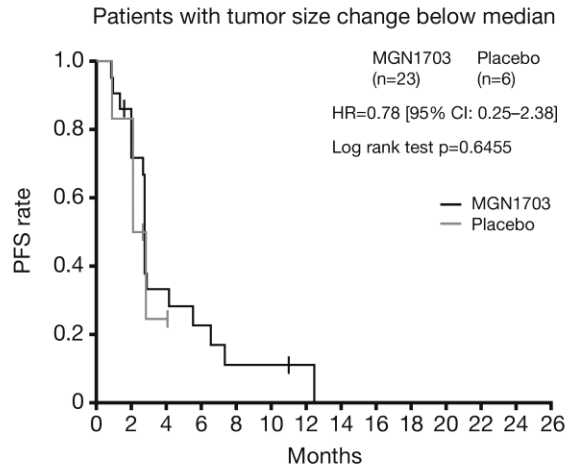
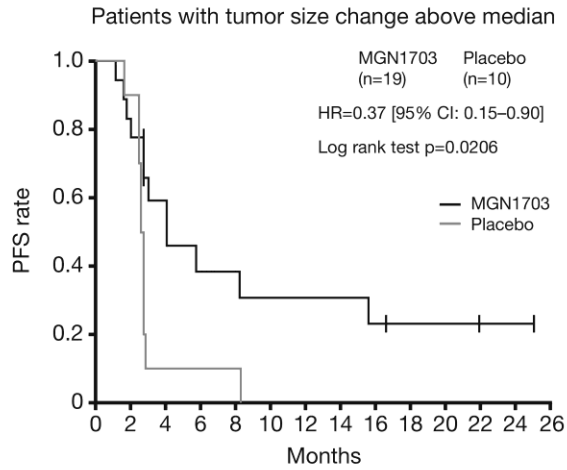
Baseline characteristics evaluated included age, gender, Eastern Cooperative Oncology Group performance status, resection of primary tumour, *KRAS* mutation status, type and duration of first-line chemotherapy, change in tumour size and best response (Response Evaluation Criteria in Solid Tumors) following first-line chemotherapy, and levels of carcinoembryonic antigen, alkaline phosphatase, lactate dehydrogenase, albumin, serum glutamic-oxaloacetic transaminase, thrombocytes and lymphocytes. Significant baseline prognostic factors (level of significance set at 0.10) were selected and entered a multivariate Cox proportional hazards model.

Results

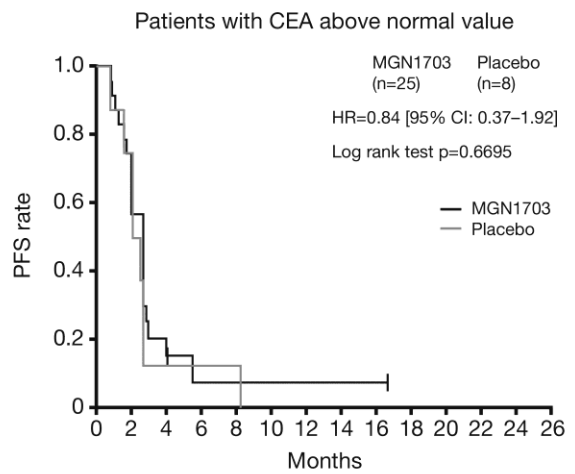
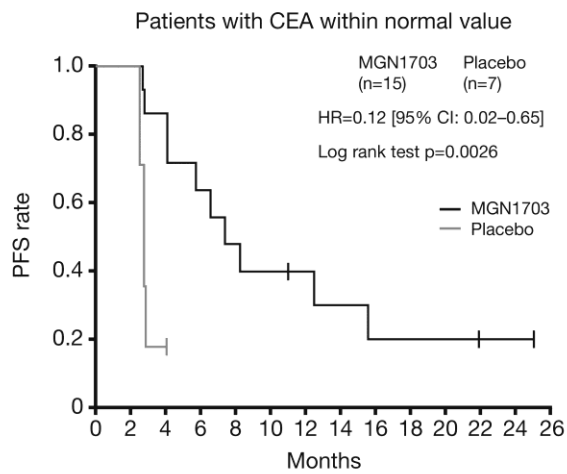
Fig. S2 Exploratory analysis of factors predictive of PFS

CEA carcinoembryonic antigen; *CI* confidence interval; *HR* hazard ratio; *PFS* progression-free survival; *SD* stable disease

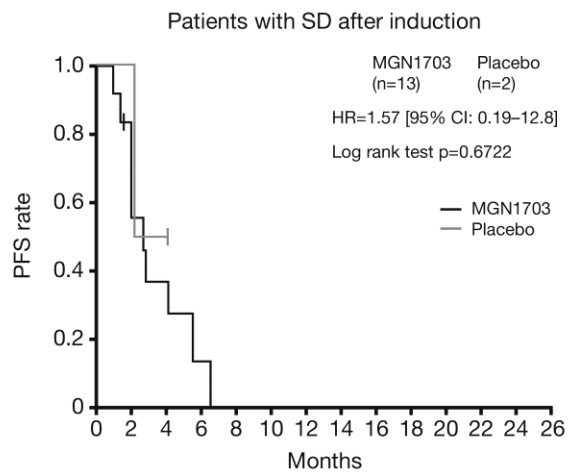
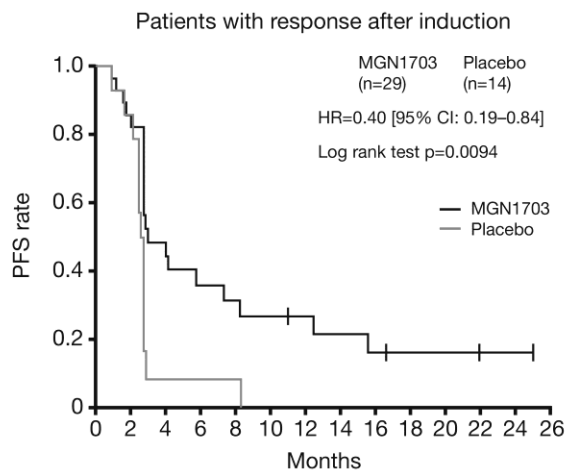
a Median change in tumour size following induction therapy



b Carcinoembryonic antigen concentrations following induction therapy



c Best response after induction therapy



Web extra material (Appendix): immune system activation

Several cell populations (monocytes, B-lymphocytes, T-lymphocytes, NKT cells, NK cells, plasmacytoid dendritic cells and myeloid dendritic cells) were explored to evaluate the immunologic response to MGN1703. Monocytes and plasmacytoid dendritic cells were strongly activated, NK cells were activated and myeloid dendritic cells were not activated (Fig S3). NKT cells were activated, while T cells were slightly activated and B cells were not activated (figures not shown).

Fig. S3 Evidence for activation of the immune system by MGN1703 is shown by a treatment-induced increase in activated pDC in the total pDC population and the proportion of activated monocytes in the total monocyte population.

mDC myeloid dendritic cells; *MFI* mean fluorescence intensity value; *NK* natural killer cell;
pDC plasmacytoid dendritic cell

