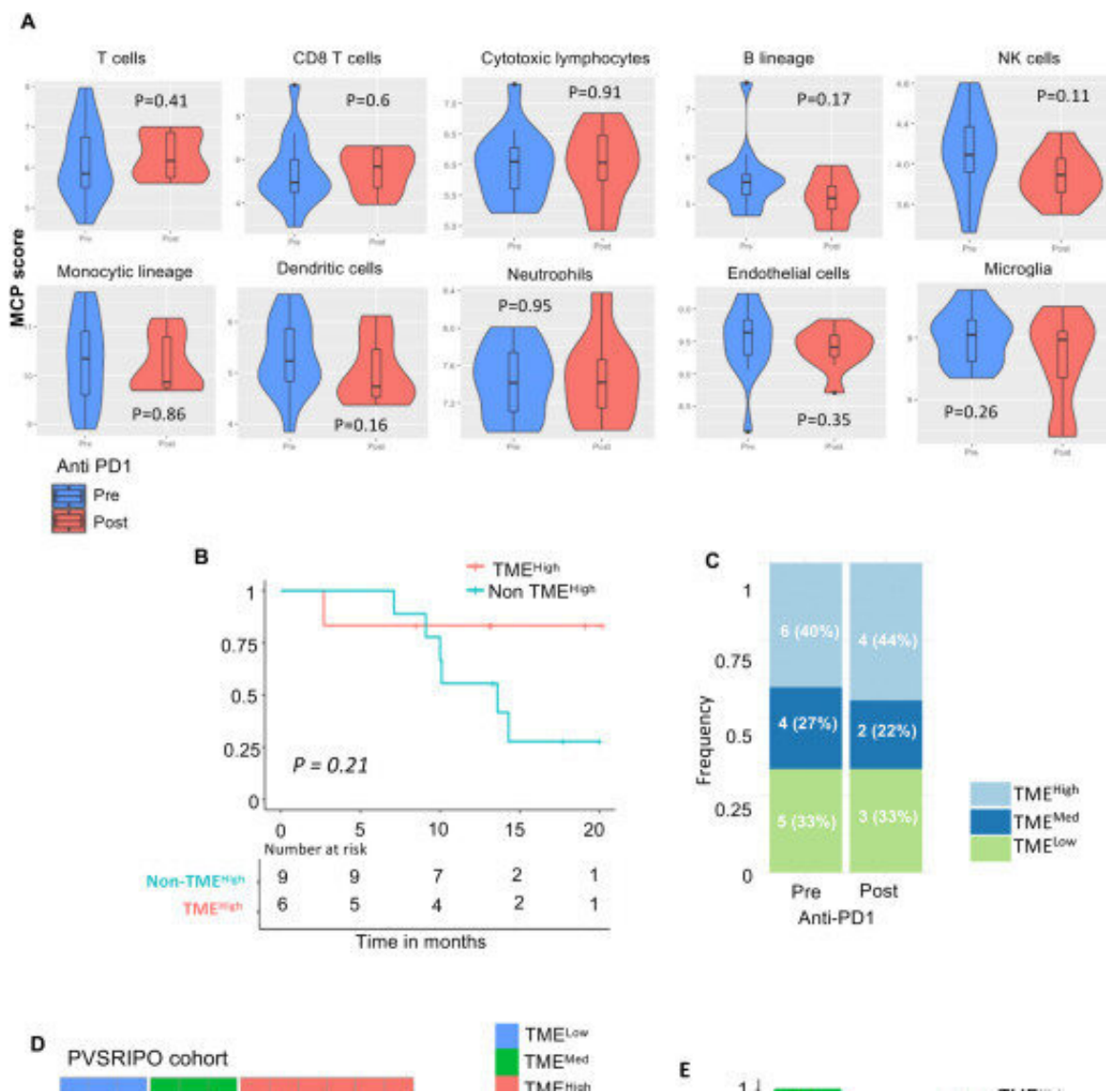


Researchers discover new brain tumor subtypes that may identify treatment for incurable brain cancer

December 6 2022



Trend towards improved OS and increased response rate in TME^{High} patients

following adjuvant treatment with pembrolizumab or PVSRIPO . A. TME composition in Zhao dataset¹⁸Zhao J, Chen AX, Gartrell RD, Silverman AM, Aparicio L, Chu T, et al. Immune and genomic correlates of response to anti-PD-1 immunotherapy in glioblastoma. *Nat Med*. March 11, 2019;25(3):462–469. Available at: <http://www.nature.com/articles/s41591-019-0349-y>Google Scholar pre- vs post- adjuvant anti-PD1 treatment in available tumor (N=24) samples. B. OS according to TME^{High} and non-TME^{High} (TME^{Low} + TME^{Med}) subtypes who received adjuvant anti-PD1 therapy in the Zhao cohort (N=15 patients). C. Relative boxplots indicating the proportion of TME^{Low}, TME^{Med} and TME^{High} patients before administration of anti-PD1 treatment (left) and after anti-PD1 treatment (right) in available tumor and blood samples. D. Partition around medoids (PAM) clustering of the PVSRIPO cohort¹⁹Desjardins A. Gromeier M. Herndon J.E. Beaubier N. Bolognesi D.P. Friedman A.H. et al.Recurrent Glioblastoma Treated with Recombinant Poliovirus.*New England Journal of Medicine*. July 12, 2018; 379: 150-161CrossrefPubMedScopus (0)Google Scholar with available RNA-seq data (N=12), based on the cellular TME composition described by GBM-MCP-counter scores reveal 3 subtypes; TME^{low}, TME^{med} and TME^{high}. E. OS according to TME^{Low} and TME^{Med} and TME^{High} subtypes who received PVSRIPO therapy in the PVSRIPO cohort¹⁹Desjardins A. Gromeier M. Herndon J.E. Beaubier N. Bolognesi D.P. Friedman A.H. et al.Recurrent Glioblastoma Treated with Recombinant Poliovirus.*New England Journal of Medicine*. July 12, 2018; 379: 150-161CrossrefPubMedScopus (0)Google Scholar. Statistical test: Wilcoxon signed rank test. Kaplan Meier analysis; P value of log-ranked test. *P

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