Decadron davis pdf

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Display options Format AbstractPubMedPMID Background: Corticosteroids are routinely utilized to alleviate edema in patients with immune-related adverse events (irAEs) that arise with immune checkpoint blockade treatment. However, it is not known if or when corticosteroids can be administered without abrogating the efforts of immunotherapy. The purpose of this study was to evaluate the impact of dexamethasone on lymphocyte activation and proliferation during checkpoint blockade to provide guidance for corticosteroid use while immunotherapy is being implemented as a cancer treatment. Methods: Lymphocyte proliferation, differentiation, and cytokine production were evaluated during dexamethasone exposure. Human T cells were stimulated through CD3 ligation or by providing CD80, a shared ligand for CD28 and CTLA-4. CTLA-4 signaling was inhibited by antibody blockade using ipilimumab which has been approved for the treatment of several solid tumors. The in vivo effects of dexamethasone during checkpoint blockade were evaluated using the GL261 syngeneic mouse intracranial model, and immune populations were profiled by flow cytometry. Results: Dexamethasone upregulated CTLA-4 mRNA and protein in CD4 and CD8 T cells and blocked CD28-mediated cell cycle entry and differentiation. Naïve T cells were most sensitive, leading to a decrease of the development of more differentiated subsets. Resistance to dexamethasone was conferred by blocking CTLA-4 or providing strong CD28 co-stimulation prior to dexamethasone exposure. CTLA-4 blockade increased IFNy expression, but not IL-2, in stimulated human peripheral blood T cells exposed to dexamethasone. Finally, we found that CTLA-4 blockade was associated with increased IFNy-producing tumor-infiltrating T cells and extended survival of dexamethasone-treated mice. Conclusions: Dexamethasone-mediated T cell suppression diminishes naïve T cell proliferation and differentiation by attenuating the CD28 co-stimulatory pathway. However, CTLA-4, but not PD-1 blockade can partially prevent some of the inhibitory effects of dexamethasone on the immune response. Keywords: Checkpoint blockade; Corticosteroids; Dexamethasone; Glioma; Immunotherapy. Not applicable; not a clinical trial. Competing interests. Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations. Fig. 1 T cell proliferation is impaired... Fig. 1 T cell proliferation is impaired by dexamethasone. Healthy donor T cells were cultured for four days with αCD3/CD80 microbeads in the presence of vehicle or dexamethasone. Healthy donor T cells were cultured for four days with αCD3/CD80 microbeads in the presence of vehicle or dexamethasone. derived from gated CD4 (top row) or CD8 (bottom row) T cells. b Negatively-selected healthy donor T cells were stained and proliferation analyses determined by flow cytometry following four days of culture under the indicated conditions. Precursor Frequency, Expansion Index, and Proliferation Index are shown. Each symbol is the average of duplicate wells, and each paired symbol represents a different donor (n = 5 donors). Statistical significance was determined with a paired two-tailed T test. c Cell cycle analysis was performed on healthy donor T cells cultured with a paired two-tailed T test. identify G0/G1, S, and G2/M phases. Representative flow images (top) and quantification of duplicate wells are shown (bottom) from two independent experiments. d Lysates from healthy donor T cells incubated with the indicated microbeads and vehicle or dexamethasone were probed for the indicated proteins. GAPDH was used as a loading control and is shown for each individual blot. Data are representative of three independent experiments Fig. 2 Increased co-stimulation ameliorates the inhibitory effects of dexamethasone. Negatively-selected healthy donor T cells... Fig. 2 Increased co-stimulation ameliorates the inhibitory effects of dexamethasone. Negatively-selected healthy donor T cells were cultured with 5 µg/mL aCD3 and increasing concentration of CD80 (left) and total numbers of naïve (TN), central memory (TCM), effector memory (TEM), and terminal effector (TTE) T cells following four days of culture (right) are shown. Differentiation subsets were assessed by CD45RO and CCR7 staining. Each condition was plated in duplicate, and data are representative of three independent experiments. Data were analyzed with an unpaired, two-tailed T Test Fig. 3 Naïve and effector memory T cells show sensitivity to dexamethasone. a Healthy donor... Fig. 3 Naïve and effector memory T cells show sensitivity to dexamethasone. a Healthy donor T cells show sensitivity to dexamethasone. subsets were cultured with α CD3/CD80 microbeads in the presence of dexamethasone (red) or vehicle control (black). Total cells (top) and CD8 T cells (to representative of three independent experiments Fig. 4 CTLA-4 blockade partially restores T... Fig. 4 CTLA-4 blockade partially restores T cell proliferation in the presence of dexamethasone. a... Fig. 4 CTLA-4 blockade partially restores T cell proliferation in the presence of dexamethasone. a Flow cytometry analysis of CTLA-4 surface expression on CD4 (left) or CD8 (right) T cells stimulated with αCD3/αCD28 microbeads. Unstimulated in presence of vehicle (solid line), and stimulated in presence of vehicle (solid line), and stimulated in presence of dexamethasone (filled red line) are shown (left) and median fluorescence intensity (MFI) of CTLA-4-expressing T cells is quantified (right). Data are representative of four independent experiments. b Expression of CTLA-4 by qPCR of T cells stimulated for four days in the presence of vehicle or dexamethasone. Data are representative of four independent experiments. c Healthy donor T cells stimulated for four days in the presence of vehicle or dexamethasone. Data are representative of four independent experiments. c Healthy donor T cells stimulated for four days in the presence of vehicle or dexamethasone. Data are representative of four days in the presence of vehicle or dexamethasone. Data are representative of four days in the presence of vehicle or dexamethasone. Data are representative of four days in the presence of vehicle or dexamethasone. 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Five healthy donors were assayed for each condition. Each data point represents and average of triplicate wells. Data were analysed with a paired, two-tailed T test Fig. 5 CTLA-4 blockade enhances survival of dexamethasone-treated mice. a CTLA-4 blockade enhances survival of dexamethasone-treated mice. a CTLA-4 blockade enhances survival of dexamethasone-treated mice. CD8 (right) T cells 1 h following oral gavage of vehicle or the indicated concentration of dexamethasone. Each cohort contained eight mice with intracranial GL261 tumors. Vehicle and dexamethasone-treated cohorts were statistically analyzed with an unpaired two-tailed student's T-test. b Schema of treatment cohorts for (c-d). GL261 ffluc-mCherry glioma cells were orthotopically implanted into C57BL/6 mice one week before treatment initiation. Luminescence readings were acquired 6 days following tumor implantation and weekly thereafter. Mice were treated with vehicle or dexamethasone as indicated. CTLA-4 blocking antibody or isotype control were administered on days 13, 16, and 19 following tumor implantation. c Luminescence of tumor-bearing mice at days 13 and 20 following tumor implantation. d Kaplan Meier survival curves of mice receiving the indicated treatments. n = 7 to 8 mice per cohort. Data are representative of two independent experiments Fig. 6 CTLA-4 blockade rescues lymphocyte defects... Fig. 6 CTLA-4 blockade rescues lymphocyte defects induced by dexamethasone. GL261 ffluc-mCherry tumor-bearing mice were ... Fig. 6 CTLA-4 blockade rescues lymphocyte defects induced by dexamethasone. GL261 ffluc-mCherry tumor-bearing mice were randomized into the indicated cohorts. Vehicle or dexamethasone treatment was initiated on day 7, and isotype or CTLA-4 blocking antibody were administered on day 23 and tissues were harvested for flow cytometry analysis. a-b CD4 (a) and CD8 (b) T cells were quantified along with the indicated differentiation subsets using CD44 and CD62L expression. Brains (n = 8) and cervical lymph nodes (n = 10) were collected. Data are analyzed using a unpaired students T test. c The relative contribution of each differentiation subset is shown for CD4 (top) and CD8 (bottom) TILs. d The total number of IFNy-producing T cells were quantified from the tumor-bearing hemispheres of mice from the indicated cohorts. Data are analyzed using an unpaired students T test. N = 8 mice/group Combination anti-CTLA-4 plus anti-PD-1 checkpoint blockade utilizes cellular mechanisms partially distinct from monotherapies. Wei SC, et al. Proc Natl Acad Sci U S A. 2019 Nov 5;116(45):22699-22709. doi: 10.1073/pnas.1821218116. Epub 2019 Oct 21. 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