# Clinical Trials Data EGFR - Document 109

# Her2 and TGFBeta Cytotoxic T Cells in Treatment of Her2 Positive Malignancy

## Clinical Trial: https://clinicaltrials.gov/study/NCT00889954

"eligibilityCriteria": "INCLUSION CRITERIA:\n\nThe patient must meet the following eligibility inclusion criteria at the time of PROCUREMENT:\n\n1. Diagnosis of advanced stage\\\* or metastatic HER2-positive cancer (Immunohistochemistry or reverse transcription-polymerase chain reaction (RT-PCR) is used to determine HER2 positivity)\n\n Definitions of Malignancies and Advanced Stages:\n\n Breast \u2265Stage IIIb Colon cancer \u2265Stage IIIb Esophageal cancer \u2265Stage IIIb Gastric carcinoma \u2265Stage IIIb Head and Neck cancer Stage IV Lung cancer \u2265Stage IIIb Pancreatic cancer Stage IV Prostate cancer Stage IV\n\n \\\*it is expected that the majority of patients who will be accrued on the protocol will have one of the HER2-positive malignancies listed in the table. If the patient's malignancy is not listed we will use \u2265 Stage IIIb as the definition of advanced stage disease. If Stage IIIb is not part of the staging system for the individual tumor, Stage IV will be used.\n\n For World Health Organization grade III and IV brain tumors):patients will be eligible, who have recurrent or progressive disease after front line therapy.\n2. Karnofsky/Lansky score of 50 or more\n3. EBV seropositive\n4. Greater than or equal to 3 years old\n5. Informed consent explained to, understood by and signed by patient/guardian. Patient/guardian given copy of informed consent.\n\nThe patient must meet the following eligibility criteria to be included for TREATMENT:\n\n1. Diagnosis of advanced stage\\\* or metastatic HER2-positive cancer with disease progressed after receiving at least one prior systemic therapy. (Immunohistochemistry or RT-PCR is used to determine HER2 positivity) \\\*for definition refer to Table above.\n2. Greater than or equal to 3 years old.\n3. EBV-seropositive\n4. Recovered from the acute toxic effects of all prior chemotherapy at least a week before entering this study.\n5. Normal echocardiogram (Left ventricular ejection fraction (LVEF) has to be with in normal, institutional limits)\n\n5. Life expectancy 6 weeks or more\n\n7. Karnofsky/Lansky score of 50 or more\n\n8. Bilirubin 3x or less, Aspartate aminotransferase (AST) 5x or less, Serum creatinine 2x or less upper limit of normal, Hgb 9.0 g/dl or more, white blood cells greater than 2,000/ul, absolute neutrophil count greater than 1,000/ul, Platelets greater than 100,000/ul\n\n9. Pulse oximetry 90% or more on room air\n\n10. Sexually active patients must be willing to utilize one of the more effective birth control methods for 6 months after the CTL infusion. Male partner should use a condom. Acceptable forms of birth control include: \\\* oral contraceptives (\"the pill\"), \\\* intrauterine devices (IUDs), \\\* contraceptive implants under the skin, or contraceptive injections, \\\* condoms with foam.\n\n11. Available autologous transduced EBV-specific cytotoxic T lymphocytes with 15% or more expression of HER2 CAR determined by flow-cytometry and killing of Her2-positive targets 20% or more in cytotoxicity assay.\n\n12. Informed consent explained to, understood by and signed by patient/guardian. Patient/guardian given copy of informed consent\n\nNote: Patients must also not receive antineoplastic drugs while on this study since they would kill the infused T cells.\n\nEXCLUSION CRITERIA:\n\nAt time of Procurement:\n\n1. Known HIV positivity\n\nAt time of Treatment:\n\n1. Severe intercurrent infection\n2. Known HIV positivity\n3. Pregnant or lactating\n4. History of hypersensitivity reactions to murine protein-containing products",  
 "healthyVolunteers": false,  
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 "minimumAge": "3 Years",  
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"CHILD",  
"ADULT",  
"OLDER\_ADULT"  
]

Question:  
Based on the following clinical trial information, would a patient with a EGFR gene mutation be eligible for the clinical trial?

Answer:  
Based on the provided clinical trial eligibility criteria, a patient with an EGFR gene mutation is not specifically excluded from the trial; however, eligibility is dependent on other factors. The critical eligibility requirements focus on the diagnosis of HER2-positive cancer, as verified by immunohistochemistry or RT-PCR. Therefore, the presence of an EGFR mutation in itself would not automatically make the patient ineligible as long as the primary eligibility criteria are met, specifically:  
  
1. The patient must have a diagnosis of advanced stage or metastatic HER2-positive cancer.  
2. The patient must meet other inclusion criteria, such as being EBV-seropositive, having a Karnofsky/Lansky score of 50 or more, and fulfilling other health and eligibility requirements mentioned.  
  
If the patient meets these HER2 positivity and other inclusion criteria, they could be eligible for the trial regardless of the presence of an EGFR mutation. However, it's important to consult the clinical trial administrators for a more detailed assessment related to specific genetic considerations.