

The invention provides a platinum-based agent (e.g., carboplatin) in combination with an antibody-drug conjugate that binds to tissue factor (TF) (e.g., tisotumab vedotin) and their use in methods of treating cancer, such as bladder cancer and cervical cancer. The invention also provides compositions and kits comprising the platinum-based agent (e.g., carboplatin) and the antibody-drug conjugate that binds to TF (e.g., tisotumab vedotin) for use in treating cancer, such as bladder cancer and cervical cancer.