Emergent data on the impact of tumor sidedness on treatment of metastatic colorectal cancer (mCRC) have important implications for clinical practice. This study determined whether online continuing medical education (CME) could improve oncologists’ knowledge of the most current data supporting the use of available therapeutic options in left- vs right-sided tumors, and improve clinician competence in evidence-based selection and optimal use of epidermal growth factor receptor (EGFR) antibodies in clinical practice.

### METHODS

A 30-minute online video roundtable discussion among 3 experts was launched for countries outside the United States in March 2017 and data collected until June 2017.

### RESULTS

#### QUESTION 1 RESULTS

**Significant improvement in identification of EGFR antibody as the preferred treatment for a patient with a left-sided tumor**

**Aggregated Results**
- 70% PRE
- 85% POST

**Linked Learning Results**
- 68% PRE
- 90% POST

**P = 0.037 (Mann-Whitney U test)**

**Chi-Square Test**
- O/E = 0.988

**Cramer’s V Effect Size**
- MODEST (V = 0.222)

**Mann-Whitney U Test**
- V EFFECT SIZE
- CRAMER’S V

#### QUESTION 2 RESULTS

**Significant improvement in recognition of better efficacy of EGFR antibodies in patients with left- vs right-sided tumors**

**Aggregated Results**
- 76% PRE
- 92% POST

**Linked Learning Results**
- 74% PRE
- 92% POST

**P = 0.023 (Mann-Whitney U test)**

**Chi-Square Test**
- O/E = 2.22

**Cramer’s V Effect Size**
- MODEST (V = 0.222)

**Mann-Whitney U Test**
- V EFFECT SIZE
- CRAMER’S V

#### QUESTION 3 RESULTS

**Educational need identified for the correct management approach for a patient presenting with a grade 2 EGFR-related rash**

**Aggregated Results**
- 80% PRE
- 68% POST

**Linked Learning Results**
- 63% PRE
- 39% POST

**P = 0.001 (Mann-Whitney U test)**

**Chi-Square Test**
- O/E = 5.03

**Cramer’s V Effect Size**
- MODERATE (V = 0.26)

**Mann-Whitney U Test**
- V EFFECT SIZE
- CRAMER’S V

#### QUESTION 4 RESULTS

**Increased confidence in selecting treatment based on tumor sidedness**

**Aggregated Results**
- 70% PRE
- 68% POST

**Linked Learning Results**
- 68% PRE
- 63% POST

**P = 0.071 (Mann-Whitney U test)**

**Chi-Square Test**
- O/E = 1.9

**Cramer’s V Effect Size**
- MODERATE (V = 0.26)

**Mann-Whitney U Test**
- V EFFECT SIZE
- CRAMER’S V

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**CONCLUSION**

- This on-demand, online video roundtable discussion resulted in a positive education effect.
- Participants had a good baseline understanding of the importance of tumor sidedness in informing treatment selection.
- However, further education appears to be required in the area of management of EGFR-related side effects.
- Online medical education is valuable in supporting the interpretation and application of new data, as well as identifying areas of continued educational need.

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**BACKGROUND**

**Pre- and post-education**

**Test**

**Post-Assessment**

**Increase in confidence in selecting treatment based on tumor sidedness**

**One-sample McNemar’s test**

**P = 0.001 (Mann-Whitney U test)**

**Chi-Square Test**

**Cramer’s V Effect Size**

**Mann-Whitney U Test**

**V EFFECT SIZE
- CRAMER’S V**