A Mixed Methods Study on Illness and Medication Perceptions and Adherence to Oral Anticancer Agents among Patients with Gastrointestinal Tract Cancer

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Introduction

- > Oral anticancer agents (OAA) gained popularity in the past two decades and become the first-line treatment for Gastrointestinal (GI) tract cancer.
- > Patients with GI tract cancer reported suboptimal adherence to OAA, reducing the therapeutic benefit and increasing mortality risk.
- ➤ The Common-Sense Model of Self-Regulation (*Figure 1*) emphasizes that patients' perception of illness and medication determines their medication adherence, which has not been applied in managing adherence among patients with GI tract cancer.
- > The purpose of this study is to explore how these perceptions concurrently influence adherence among this population.



Study design: A convergent mixed methods study design (*Figure 2*), which combines the advantages of both quantitative and qualitative approaches.

- Settings: Four tertiary hospitals in three provinces (e.g., Yunnan, Guangxi, and Shandong provinces) of Mainland China.
- > Participants
 - **Inclusion criteria**: Adult patients with GI tract cancer who received at least one OAA treatment cycle and were willing to participate.
 - **Exclusion criteria**: who were critically or terminally ill, had been diagnosed with mental problems or were participating in drug clinical trials.
- Data collection

Quantitative part

- A convenient sample of 253 patients completed
- Illness perception: Brief Illness Perception Questionnaire
- Medication perceptions:
 - ✓ Medication belief: Belief about Medicines Questionnaire, measured necessity and concern of taking OAA
 - ✓ Medication Self-efficacy: Self-efficacy for Appropriate Medication Use Scale
- Adherence: Morisky 4-item Medication Adherence Scale, answer "No" to four items were regarded as good adherence

> Data analyze

- Quantitative data: correlation and mediation analyses
- Qualitative data: content analyses
- The integration of quantitative and qualitative data: Side-by-side comparisons and joint displays
- **Ethical approval** SBRE-22-0809 from the Chinese University of Hong Kong





- Audiotaped, verbatim transcribed

 \succ We thanked all the participants who were willing to complete this study

Disclosures	Referen
None	

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	Qualitative findings (n=37)
lower er	 > Illness perceptions Acknowledging that cancer is incurable with oncoming death, patients had a strong desire to live longer Lacking medical knowledge, patients lay a priority to follow healthcare providers' prescriptions (e.g., OAA) to extend their lifespan.
	Medication perceptions
rect <i>igure</i> t.	 Considering OAA was effective, tolerable, and accessible, patients highlight their active role in taking OAA Suffered barriers (e.g., adverse effects, large size and unpleasant smell of OAA, polypharmacy, and forgetfulness) and emotional resistance to take OAA, patients rationalized their nonadherent behaviors.

