



## THE CLINICAL QUESTION

- TAKE HOME MESSAGE
- This study showed no differences between the aggressive (daily) and the symptom-guided drain approaches in improving breathleasness over the Od days after in Cinardian. Of the Control of n in either group. h a higher rate of ensions-5 Levels (EQ-5D-! m-guided drainage omfort or pain, and anxi

BACKGROUND

Approach to managing the drainage from the catheter varies worldwide. Daily or alternate day drainage (aggressive drainage) is more commonly used in USA, whereas a more symptom-guided approach is common in the rest of the world. Ber the AGAP trial, daily approach is common in the rest of the world. Ber the AGAP trial, daily drainage, However, the symptom-guided approach might reduce the risk of lartogenic infection, burden, and consumable costs compared with daily drainage, Aggressive (daily) versus symptom-guided drainage regimens have not been compared but can have substantial implications on clinical care.

STUDY DESIGN



- Secondary outcomes
   Rates of spontaneous pleurodesis
   Self-reported global quality-of-life (EQ-5D-5L1).12) after maximal fidiniangs on 100 mm VAS at randomization. Z weeks, 4 weeks after
  that morthig for up to 6 months.

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- POPULATION
- **BASELINE CHARACTERISTICS**

- - OUTCOMES
- Secondary outcomes:

   The frequency of pontaneous pleurodesis was significantly high in the aggressive drainage group than symptom-guided group.
   (6/63 157-56) by (5/64/1-64, 3-00-00-6) in first 60 days
   (6/64 157-56) by (5/64/1-64, 3-00-00-6) in first 60 days
   (6/64 157-64) by (7/64/1-64, 3-00-00-6) in first 60 days
   (6/64 157-64) by (7/64/1-64, 3-00-00-6)
   (6/64 157-64) by (7/64/1-64, 3-00-00-6)
   Patient-reported quality-of-life measures over the study period.
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   Gliovic-up (size were better in the appression of the period of the period
- (estimated means Urs ) survey of 1667)).

  The mean VAS pain score during the first 60 days, time to death at 6 months, total hospital admissions and duration of hospital stay showed no significant difference between the groups. Patients with trapped lung had a lower rate of pleurodesis than dit those with an expandable lung. Aggressive drainage was

- Adverse events:

  1 I) patients in the aggressive drainage group and 12 in the sympte guided drainage group had serious adverse events (SAE).

  1 Il opisodes of pieural infection developed (5 in the aggressive drainage group and 6 in the symptom-guided drainage group) patients over 6 months.

  5 When SAE included:

  5 Which SAE included:

  6 Which SAE included:

  7 Air leak or pneumothorax. Aggressive (3), symptom-guided (5).

  7 Air leak or pneumothorax. Aggressive (2), symptom-guided (1).

  7 Inc. Cellullitis requiring admission. Aggressive (2), symptom-guided (1).

  8 Inc. Cellullitis requiring admission. Aggressive (3), symptom-guided (1).

COMMENTARY This is one of the first randomized controlled trials comparing IPC drainage regimens (aggressive (daily) and the symptom-guided approach). Both approaches provided similar breathlessness control over 60 days after randomization. Pain scores, days part in the hopping of the control of the state of the properties of the provided similar provided for the provided state of the trapped lung, which accounted for a third of the cohort, consistent with commonly quoted data. The study concluded state that both approaches are effective in controlling breathlessness and the IPC drainage regimen can be choese based on the primary alm of IPC insertion (pleurodesis vs. palliation only)

Insertion (pileuroceses as permanance);

Limitations of this study include that this is an open-label study and use of patient-reported measures could potentially contain bias. The primary endpoint set at 60 days largely represents the short mediants of the primary endpoint set at 60 days largely represents the short mediants. Some patients with effusions from meastcheliona have been included and did not show different results. Other melignancies are not well represented. The minimal clinically important difference is not clearly defined for patients with malignant pleural effusion for EQ-50-SL or VAS quality-office cores. This study has provided an approximation of the number of drainage consumables needed for aggressive and symptom-guided drainage. Cost of consumables and care remain variable worldwide and needs further study.

**FUNDING** 



SUGGESTED READING

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4. Thomas R. Kalomenidis L. Sett 1. Lee YCC. Effusion from malignant causes. In: Light RVI. Lee YCC. 647. Settbook of pleural diseases, Ard edn. Boca Raton, CRC Press. Taylor & Francis Group. 2016: 278-94.



# ARTICLE CITATION

Muruganandan S, Azzopardi M, Fitzgerald DB. Shrestha R, Kwan BC, Lam DC, De Chaneet CC, A MR, Yap E, Tobin CL, Carske LA. Aggressive versu symptom-guided drainage of malignant pleural effusion via indwelling pleural catheters (AMPLE 2) an open-label randomised trila. The Lancet Respiratory Medicine. 2018 Sep 1.6(9):671-80.