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Associate Professor



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# Message



## What is Evidence-Based Medicine (EBM)?



Sackett D et al (2000): Evidence-Based Medicine. Churchill Livingstone

**“Evidence-based medicine is the integration of best research evidence with clinical expertise and patient values.”**

- **Medical Information Resources provide us with  
Decision supporting systems  
not  
Decision making systems.**

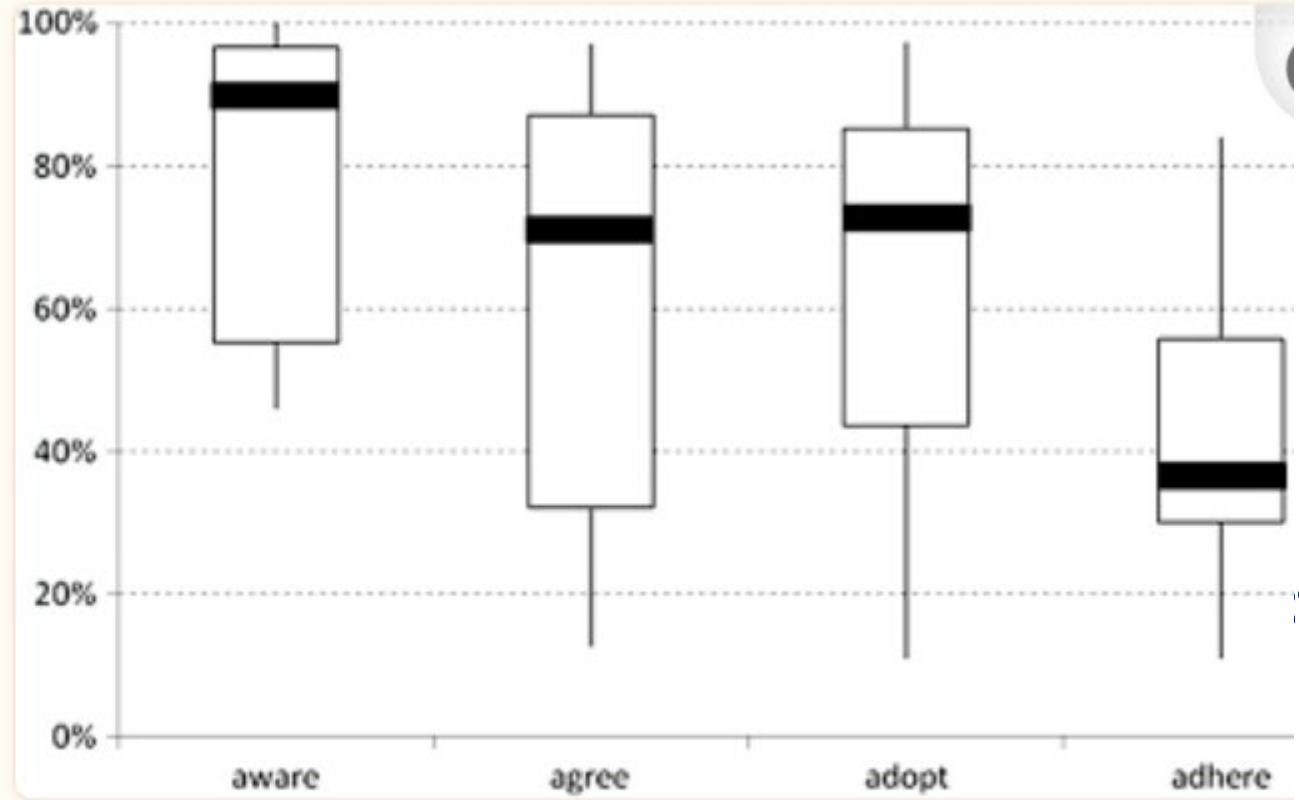


Figure 7

Box and whisker plot for all absolute rates.

at in

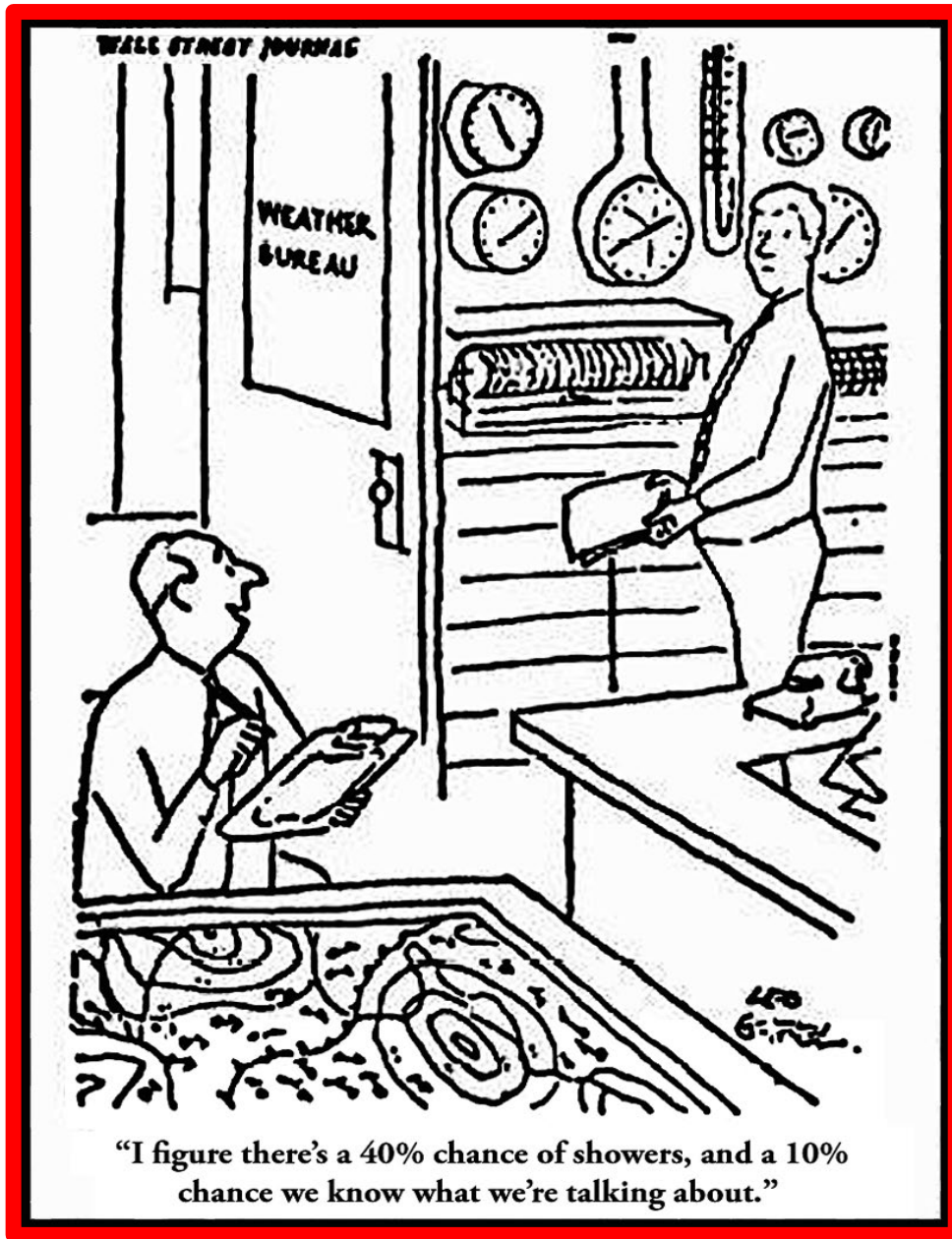
behavior

**physicians may adopt recommendations with which they do not agree.**

May be due to  
**peer pressure**

- This suggests that winning hearts and minds of clinicians through the dissemination of evidence is not the only strategy to increase the adoption of research evidence into practice**

This suggests that winning hearts and minds of clinicians through the dissemination of evidence is not the only strategy to increase the adoption of research evidence into practice.



"I figure there's a 40% chance of showers, and a 10% chance we know what we're talking about."

# Endoscopic diagnosis and management of nonvariceal upper gastrointestinal hemorrhage (NVUGIH): European Society of Gastrointestinal Endoscopy (ESGE) Guideline – Update 2021



## Authors

Ian M. Gralnek<sup>1,2</sup>, Adrian J. Stanley<sup>3</sup>, A. John Morris<sup>3</sup>, Marine Camus<sup>4</sup>, James Lau<sup>5</sup>, Angel Lanas<sup>6</sup>, Stig B. Laursen<sup>7</sup> , Franco Radaelli<sup>8</sup>, Ioannis S. Papanikolaou<sup>9</sup>, Tiago Cúrdia Gonçalves<sup>10,11,12</sup>, Mario Dinis-Ribeiro<sup>13,14</sup>, Halim Awadie<sup>1</sup> , Georg Braun<sup>15</sup>, Nicolette de Groot<sup>16</sup>, Marianne Udd<sup>17</sup>, Andres Sanchez-Yague<sup>18,19</sup>, Ziv Neeman<sup>2,20</sup>, Jeanin E. van Hooft<sup>21</sup>

## Institutions

- 1 Institute of Gastroenterology and Hepatology, Emek Medical Center, Afula, Israel
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- 4 Sorbonne University Endoscopic Unit, Saint Antoine

- 17 Gastroenterological Surgery, University of Helsinki and Helsinki University Hospital, Helsinki, Finland
- 18 Gastroenterology Unit, Hospital Costa del Sol, Marbella, Spain
- 19 Gastroenterology Department, Vithas Xanit International Hospital, Benalmadena, Spain
- 20 Diagnostic Imaging and Nuclear Medicine Institute, Emek Medical Center, Afula, Israel

**Start**

# Airway and breathing

## •Start



The practice of prophylactically intubating patients for the endoscopic management of severe UGIB varies significantly, and this may be related to endoscopist experience and patient factors.

**A stable airway may allow for ease of intervention on bleeding lesions**

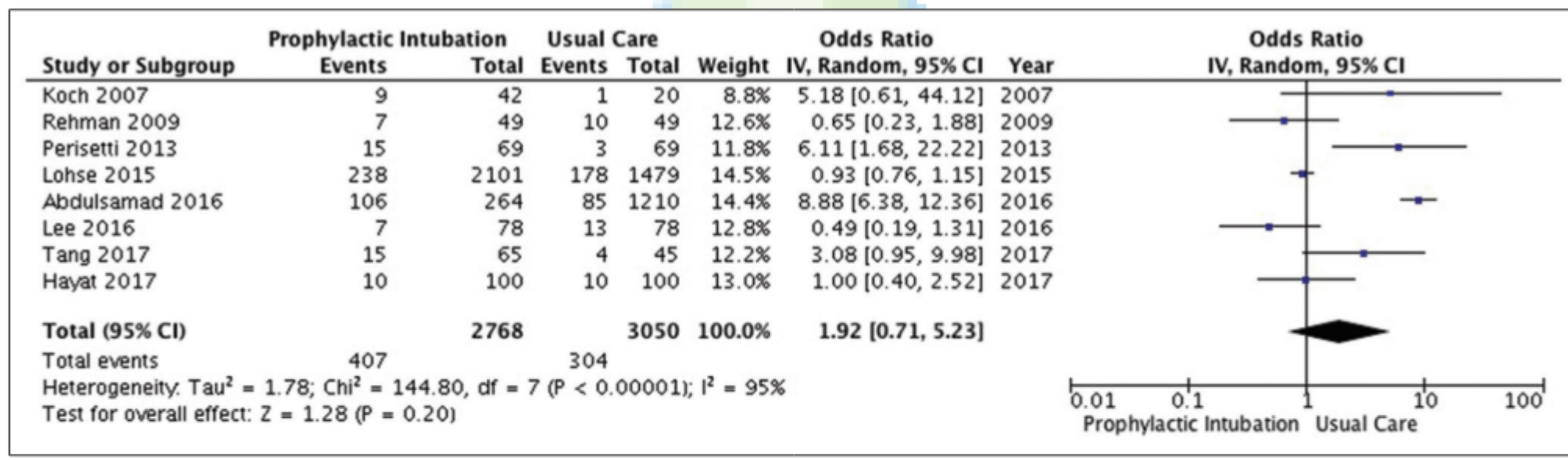


Figure 4: Mortality outcome

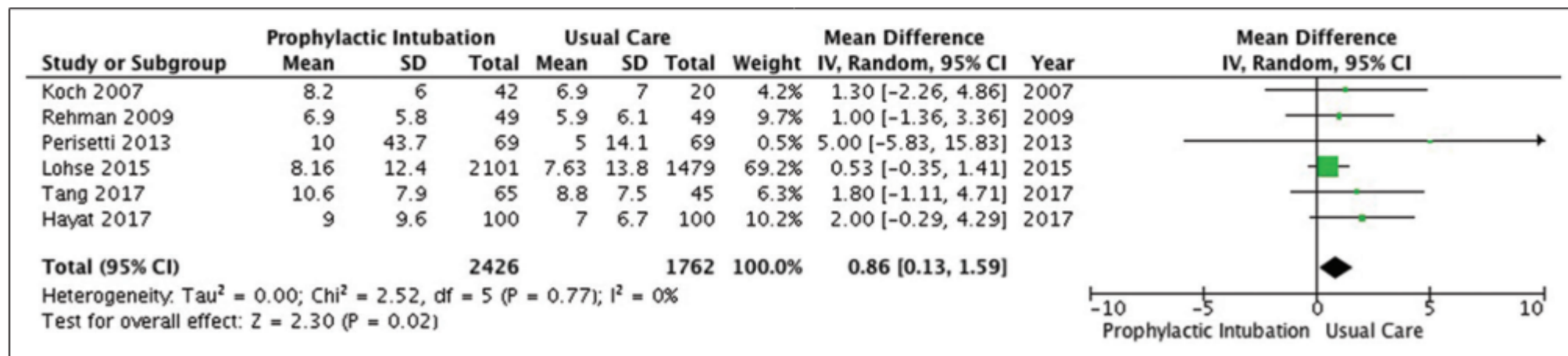
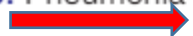
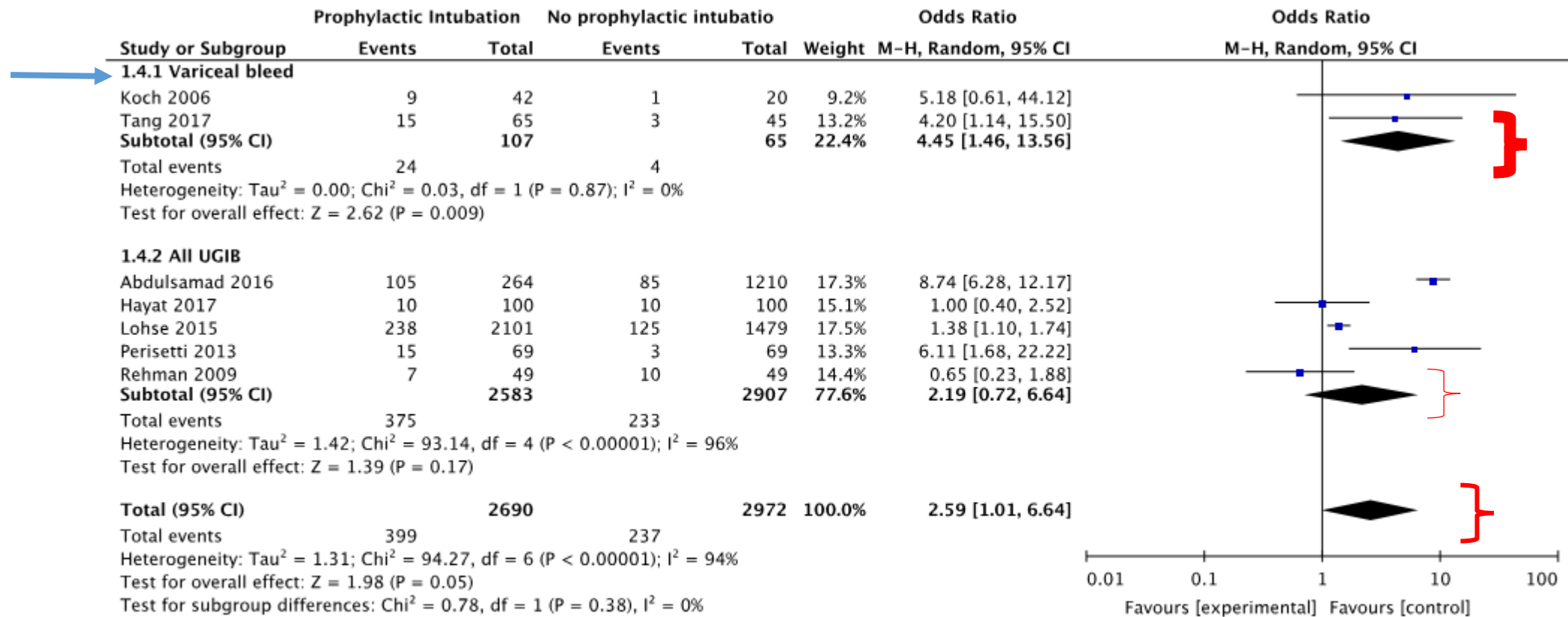


Figure 5: Hospital length of stay outcome

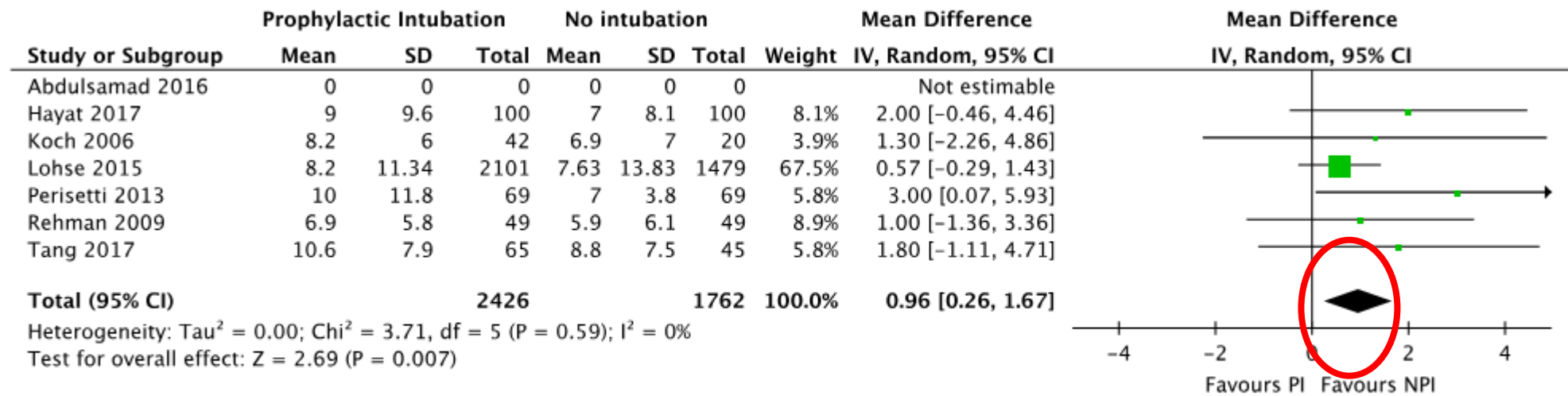
Figure 3: Pneumonia outcome



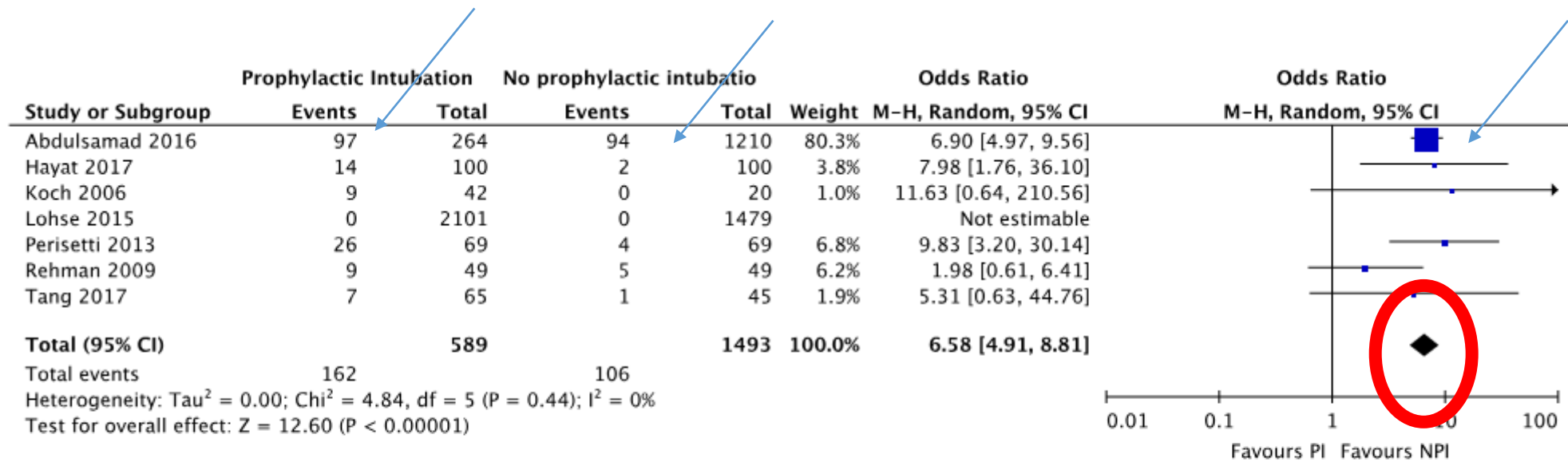


**Figure 2** Meta-analysis of mortality and prophylactic intubation in upper gastrointestinal bleeding (UGIB) stratified by variceal bleed only and all UGIB. CI, confidence interval(s); M-H, mantel–Haenszel odds ratio.

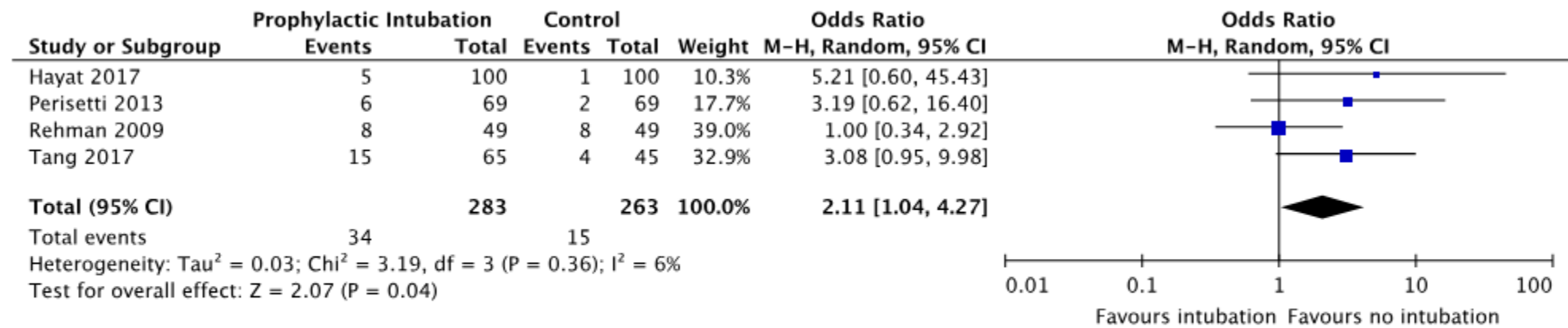
**MA/RCT mortality**



**Figure 3** Meta-analysis of hospital length of stay and prophylactic intubation in upper gastrointestinal bleeding. CI, confidence interval(s); IV, inverse variance.



**Figure 4** Meta-analysis of rates of pneumonia and prophylactic intubation in upper gastrointestinal bleeding. CI, confidence interval(s); M-H, mantel-Haenszel odds ratio.



**Figure 5** Meta-analysis of cardiac complications and prophylactic intubation in upper gastrointestinal bleeding. CI, confidence interval(s); M-H, mantel-Haenszel odds ratio.

*Endotracheal intubation*

- |    |   |
|----|---|
| 16 | ESGE does not recommend routine prophylactic endotracheal intubation for airway protection prior to upper endoscopy in patients with acute UGIH.<br>Strong recommendation, high quality evidence.   |
| 17 | ESGE recommends prophylactic endotracheal intubation for airway protection prior to upper endoscopy only in selected patients with acute UGIH (i. e., those with ongoing active hematemesis, agitation, or encephalopathy with inability to adequately control the airway).<br>Strong recommendation, low quality evidence. |

**ESGE recommends that, if prophylactic endotracheal intubation is performed, extubation should occur as soon as clinically safe following upper GI endoscopy**

**Strong recommendation, very low quality evidence**

**The European non-variceal UGIB guidelines recommend that prophylactic intubation should be performed only in the context of severe haematemesis, agitation, or inability to protect the airway.**

The European non-variceal UGIB guidelines recommend that prophylactic intubation should be performed only in the context of severe haematemesis, agitation, or inability to protect the airway.



ESGE does not recommend the routine use of nasogastric or orogastric aspiration/lavage in patients presenting with acute UGIH.

**Strong recommendation, moderate quality evidence.**

15

ESGE does not recommend the routine use of nasogastric or orogastric aspiration/lavage in patients presenting with acute UGIH.  
Strong recommendation, moderate quality evidence.

2015

**ESGE recommends initiating high dose intravenous proton pump inhibitors (PPI)**

**intravenous bolus followed by continuous infusion (80 mg then 8 mg/hour), in patients presenting with acute UGIH awaiting upper endoscopy. However, PPI infusion should not delay the performance of early endoscopy**

**strong recommendation ,High quality evidence.**

**Opinions**

**The lack of a significant impact of pre-endoscopy PPI therapy on clinically relevant patient outcomes in acute NVUGIH has recently led to revised recommendations from several international evidence-based guideline bodies.**

**In 2018, the Asia-Pacific** working group consensus **revised** their earlier support for routine pre-endoscopy intravenous PPI administration in acute UGIH .

Since there is **no proven impact on patient outcomes**  
and **costs are increased**

the working group members voted to reject the indiscriminate use of pre-endoscopy intravenous PPIs in patients presenting in a stable condition with symptoms suggestive of acute UGIH.

2015

**ESGE recommends initiating high dose intravenous proton pump inhibitors (PPI)**

**intravenous bolus followed by continuous infusion (80 mg then 8 mg/hour), in patients presenting with acute UGIH awaiting upper endoscopy. However, PPI infusion should not delay the performance of early endoscopy**

**strong recommendation ,High quality evidence.**

**2015**

ESGE recommends IV (PPI)

**strong recommendation  
, High quality evidence.**

**2021**

ESGE suggests (PPI) therapy  
be considered

**Weak recommendation,  
high quality evidence**

## Post-endoscopy management

ESGE recommends high dose proton pump inhibitor (PPI) therapy for patients who receive endoscopic hemostasis and for patients with FIIb ulcer stigmata (adherent clot) not treated endoscopically.

**Strong recommendation, high quality evidence**



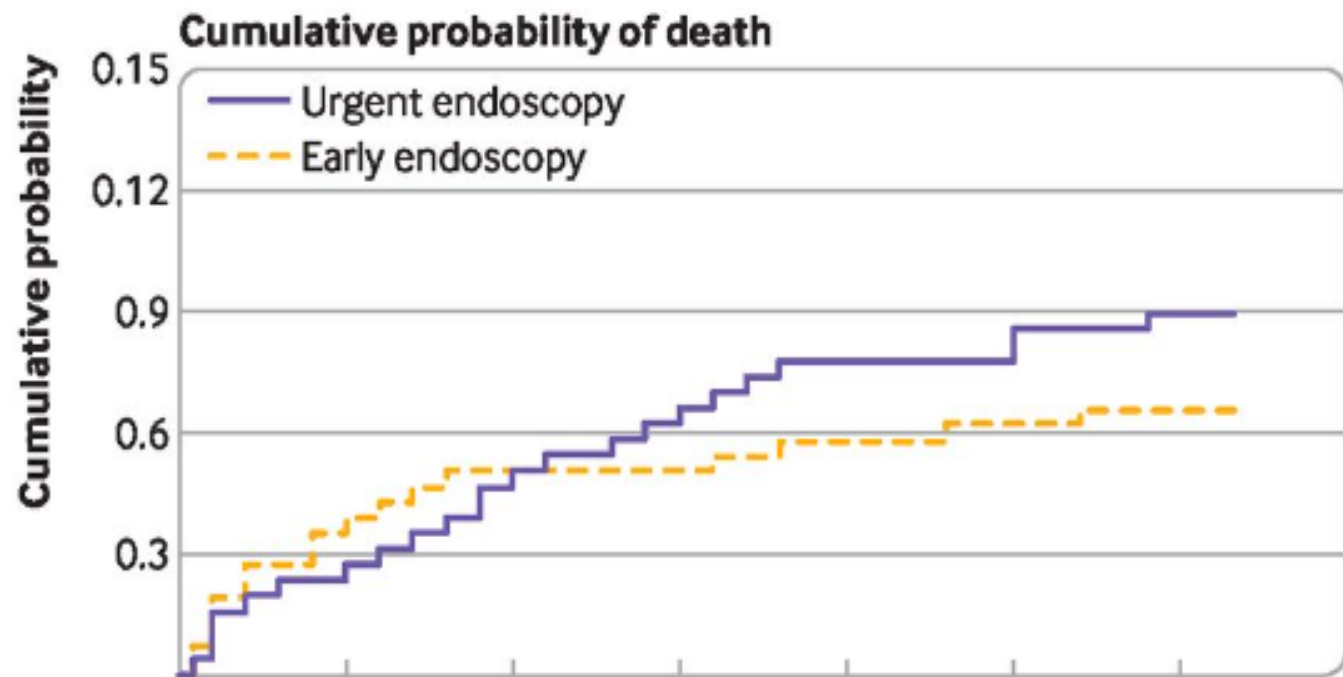
Post-endoscopy management

esomeprazol

## What is the optimal timing of urgent endoscopy in patients UGIB?

Exact timing of endoscopy can be challenging and should be decided on the basis of thorough clinical assessment, including haemodynamics and underlying comorbidities.

Appropriate resuscitation and optimisation of comorbidities is essential before endoscopy.

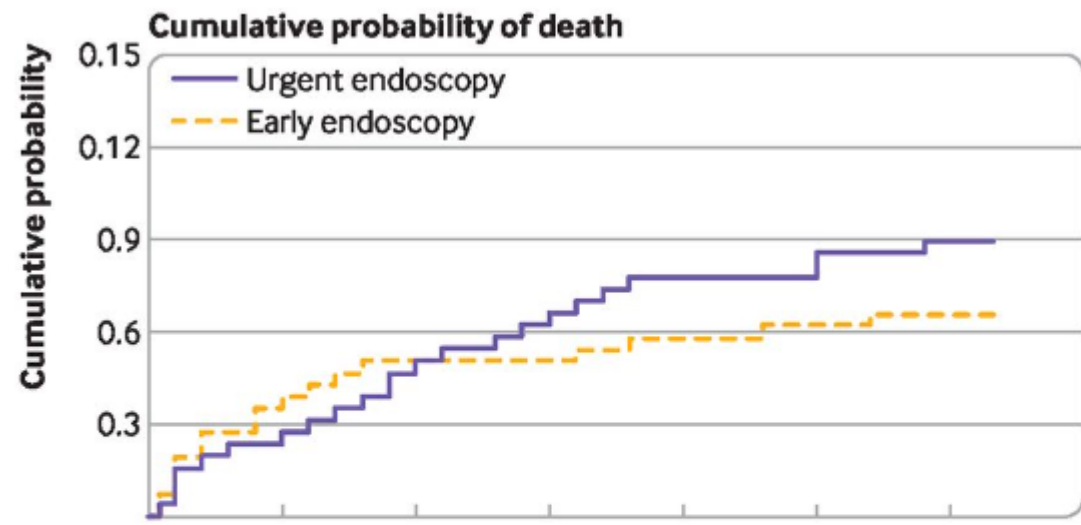


Urgent endoscopy

258    252    246    242    238    238    235

Early endoscopy

258    249    245    245    243    242    241

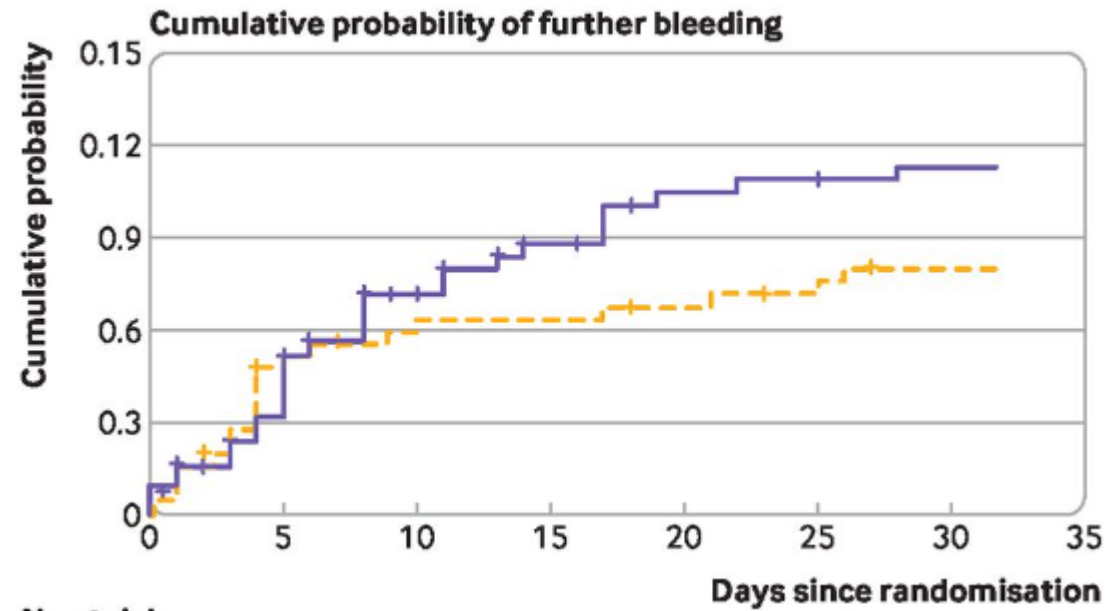


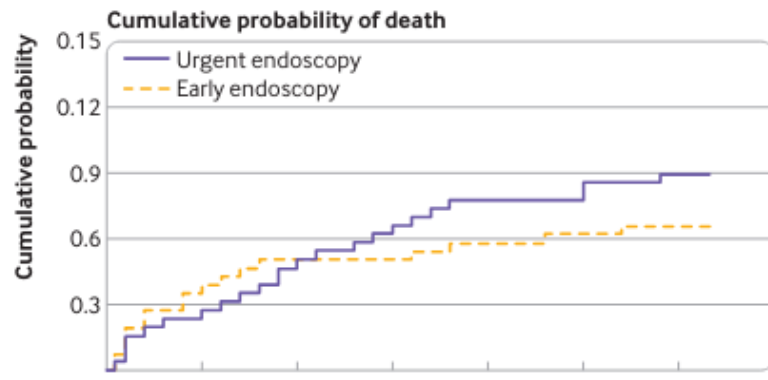
Urgent endoscopy

258 252 246 242 238 238 235

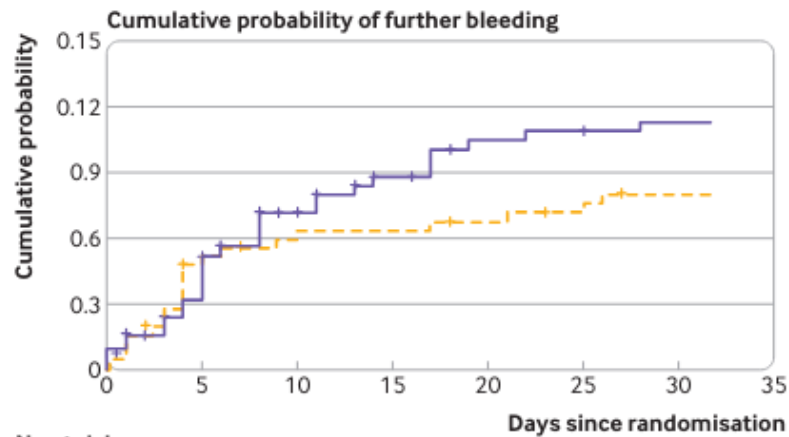
Early endoscopy

258 240 245 245 242 242 241





Urgent endoscopy	258	252	246	242	238	238	235
Early endoscopy	258	249	245	245	243	242	241



<b>No at risk</b>							
Urgent endoscopy	258	243	228	220	214	213	210
Early endoscopy	258	249	245	245	243	242	241

4 ESGE does not recommend urgent ( $\leq 12$  hours) upper GI endoscopy since as compared to early endoscopy, patient outcomes are not improved.

Strong recommendation, high quality evidence.

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**To continue**