8.04 An Audit of the Pleural Fluid Sampling Practice for Unilateral Pleural Effusions in

a Teaching Hospital

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Background: Unilateral pleural effusions are commonly encountered in clinical practice. Pleural fluid sampling is required to establish a diagnosis. This retrospective review aimed to determine if workup of a pleural effusion was in keeping with best practice BTS guidelines.

Methods: HIPE discharge coding was used to identify patients with a primary diagnosis of pleural effusion from July 2022-January 2023. The electronic system was utilised to identify patient demographics and fluid sampling practices. An excel tool was used to enter data.

Results: Fluid Sampling was in keeping with BTS guidelines in 20% of effusions between July 2022 and January 2023. 25 patients had Pleural Taps during this period. 40% for pleural effusions and 60% for pneumothoraces. 100% of the audited patients had chest drains inserted. 50% of the patients had post drain insertion complication of pneumothorax.

Pleural microbiology was included in 80%. Pleural cytology was included in 60%. Pleural cell count was included in 50%. Pleural LDH was included in 70%. Pleural protein was included in 70%. Pleural Ph was included in 20%.

Conclusions: This audit suggests adherence to BTS guidelines at our institution is suboptimal. While 100% of effusions were sampled, only 20% were adequately sampled. Increased awareness of the recommended sampling as per BTS guidelines is required in order to fully investigate pleural effusions and minimise repeated invasive investigations. To remedy this, we have created a sampling checklist document.

Disclosures: There is nothing to disclose

References:

1.Havelock T, Teoh R, Laws D, Gleeson F. Pleural procedures and thoracic ultrasound: British

Thoracic Society pleural disease guideline 2010. Thorax. 2010;65(Suppl 2):i61-i76.

2. Hooper C, Lee YCG, Maskell N. Investigation of a unilateral pleural effusion in adults: British

Thoracic Society pleural disease guideline 2010. Thorax. 2010;65(Suppl 2):ii4-ii17.