

with Ultrasound

ıl jugular vein

急診劉信良醫師

上完課就一定會

- •了解必要性
- •如何操作
- •第一次就上手

請問

在剛剛trauma的部分,你印象最深的是哪一部分?

有需要嗎?

請問

志玲學妹打CVC已經打了30分鐘, 試過subclavian和neck,戳了好 幾十次,淚眼汪汪地找你求 助.....

先照Chest X-ray!! 有氣胸不關我的事...

請問

病人確診登革熱,血小板只剩一萬,PT又延長,合併休克,此時你要打CVC嗎?

如何操作

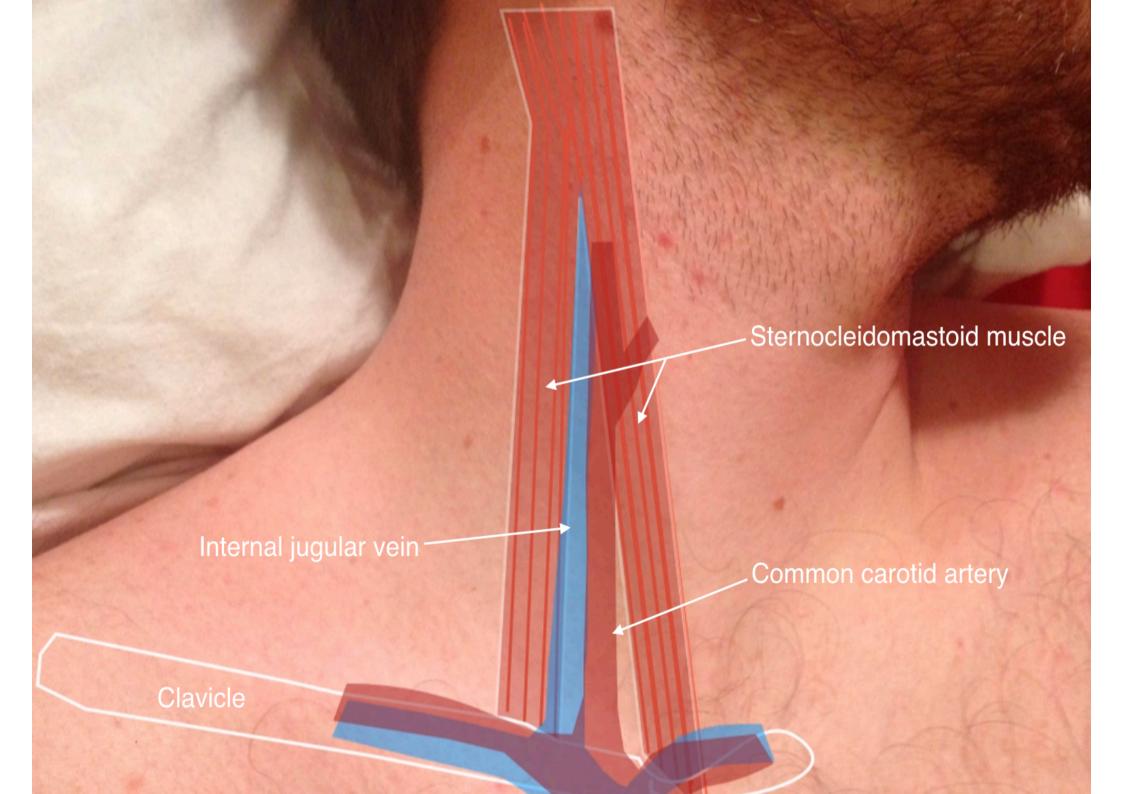
要選誰?

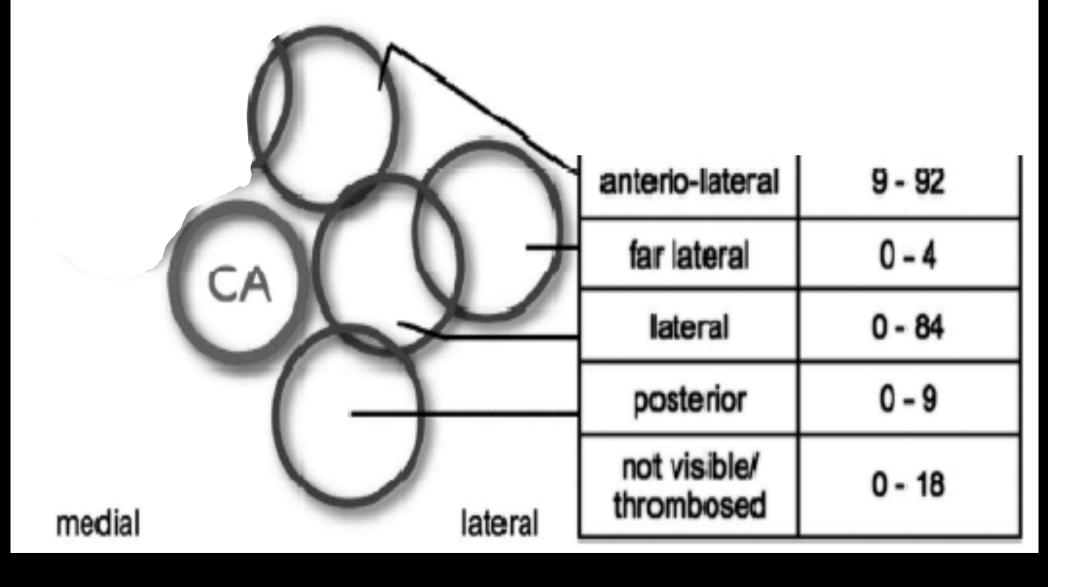
Subclavian

- •較少artery puncture
- •較多氣胸

Internal Jugular

- •較多artery puncture
- •較少氣胸





要選誰?



要選誰?

定位

- •靜態
- •容易跑掉
- •不用無菌
- •好學

即時導引

- •動態
- •不易跑掉
- •要無菌
 - 要花時間

標準做法



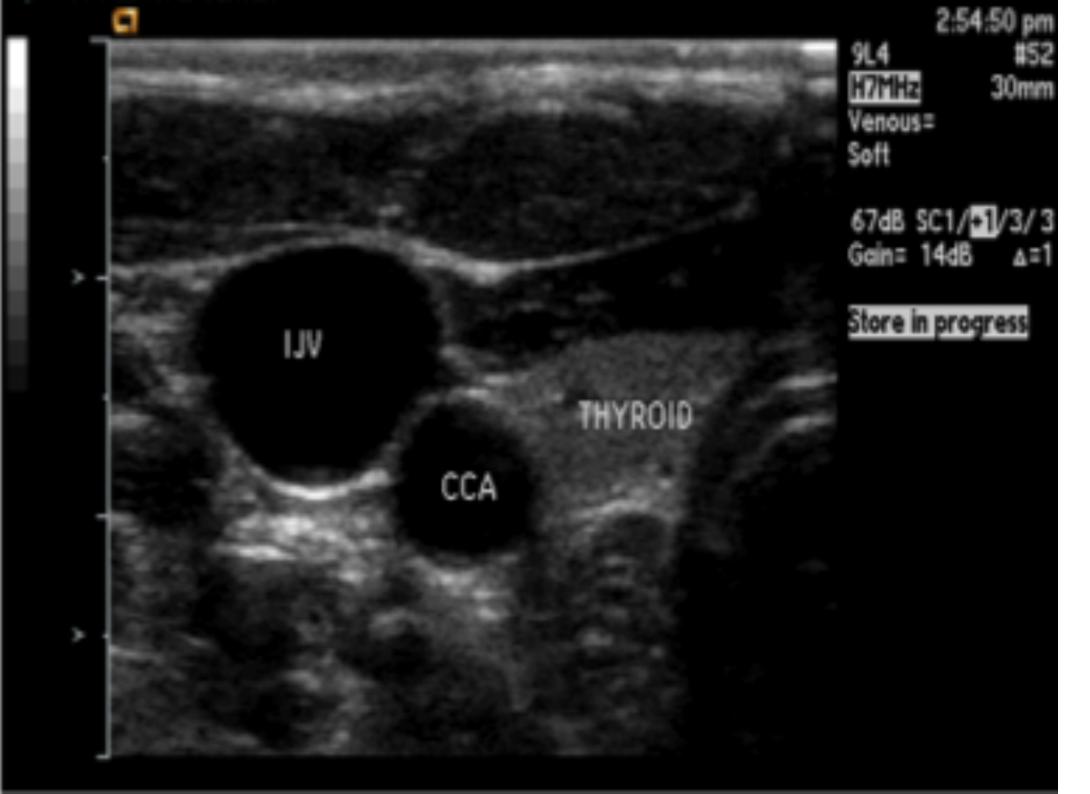
克難做法





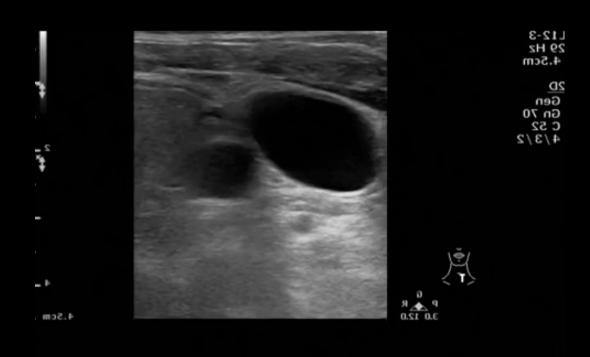
沒有無菌套怎麼辦?



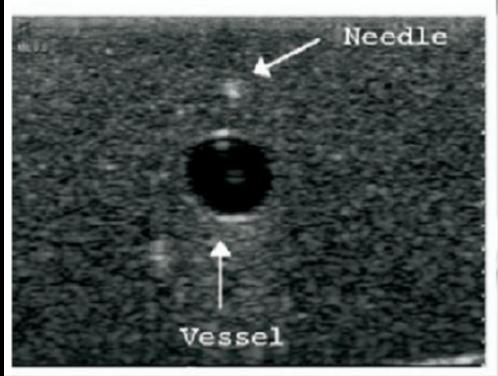


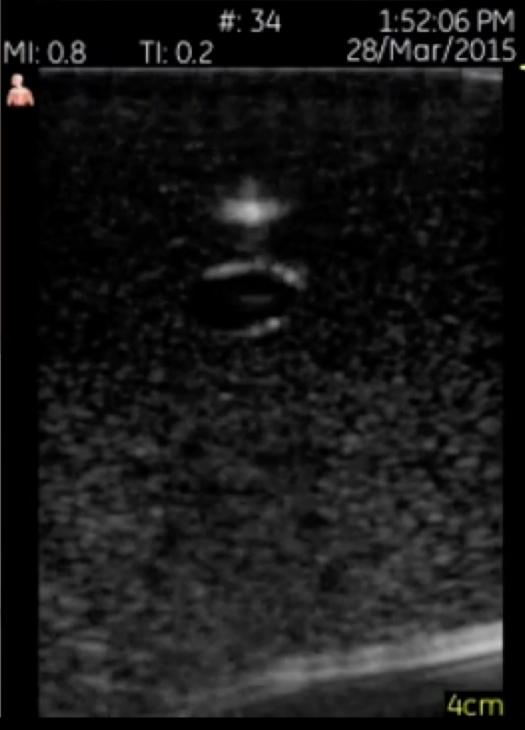
Artery? Vein?

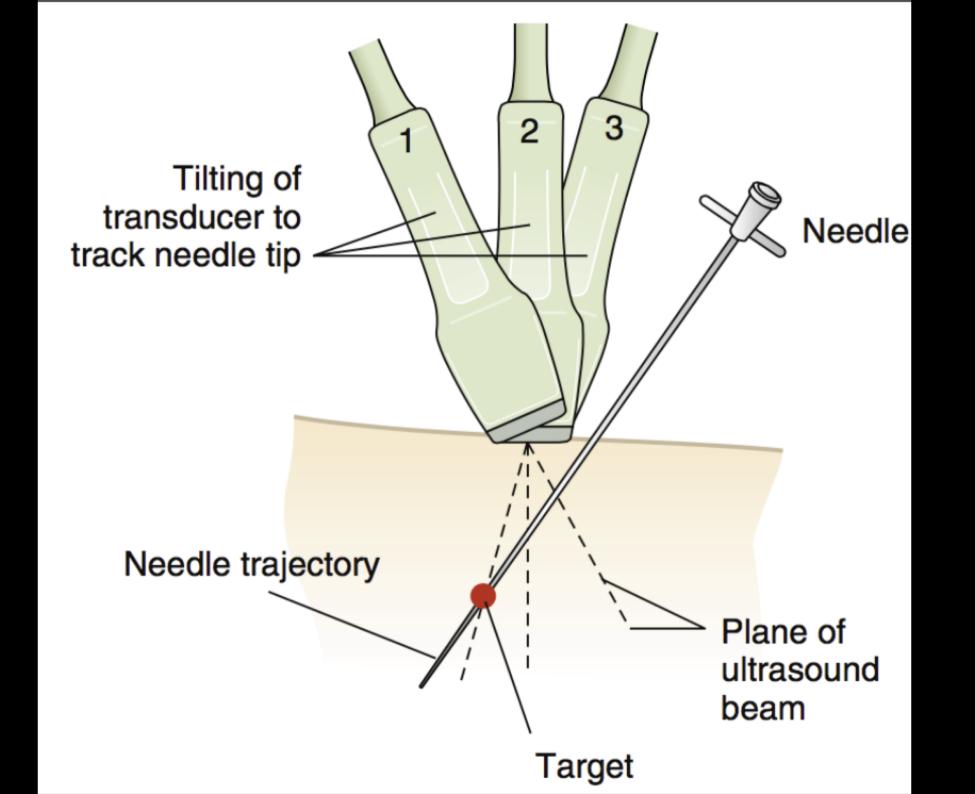
- 探頭的mark方向,相對位置
- 壓看看
- Doppler的 PW mode

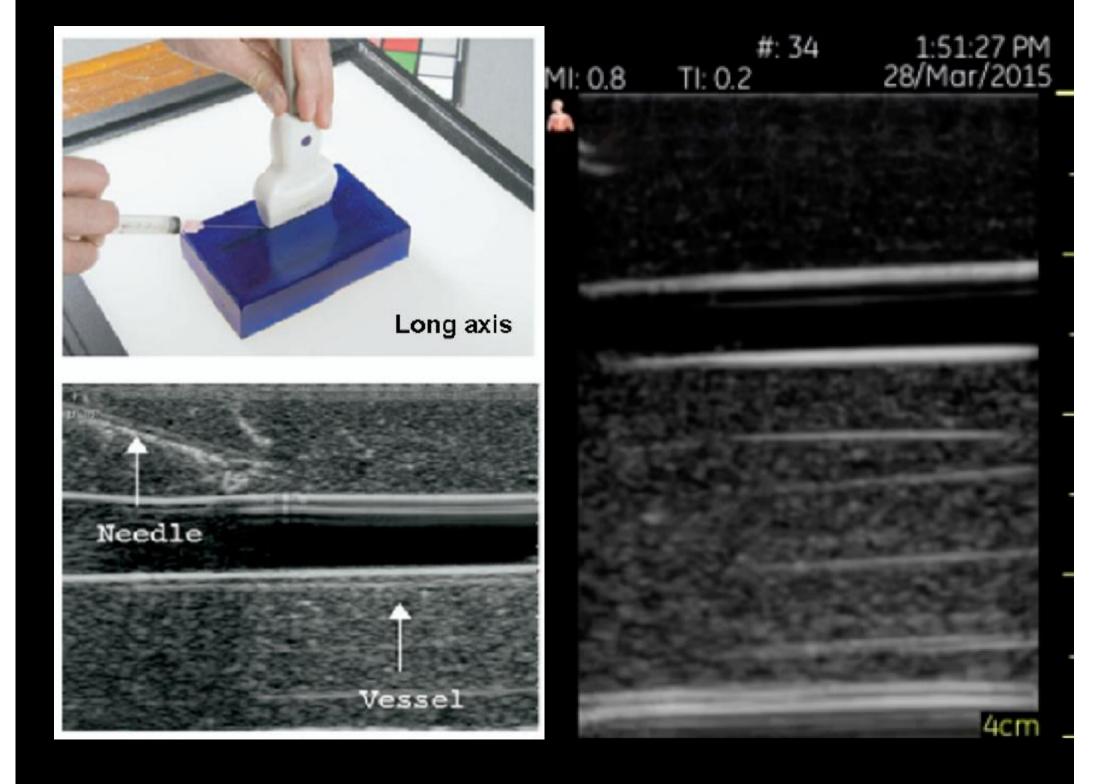






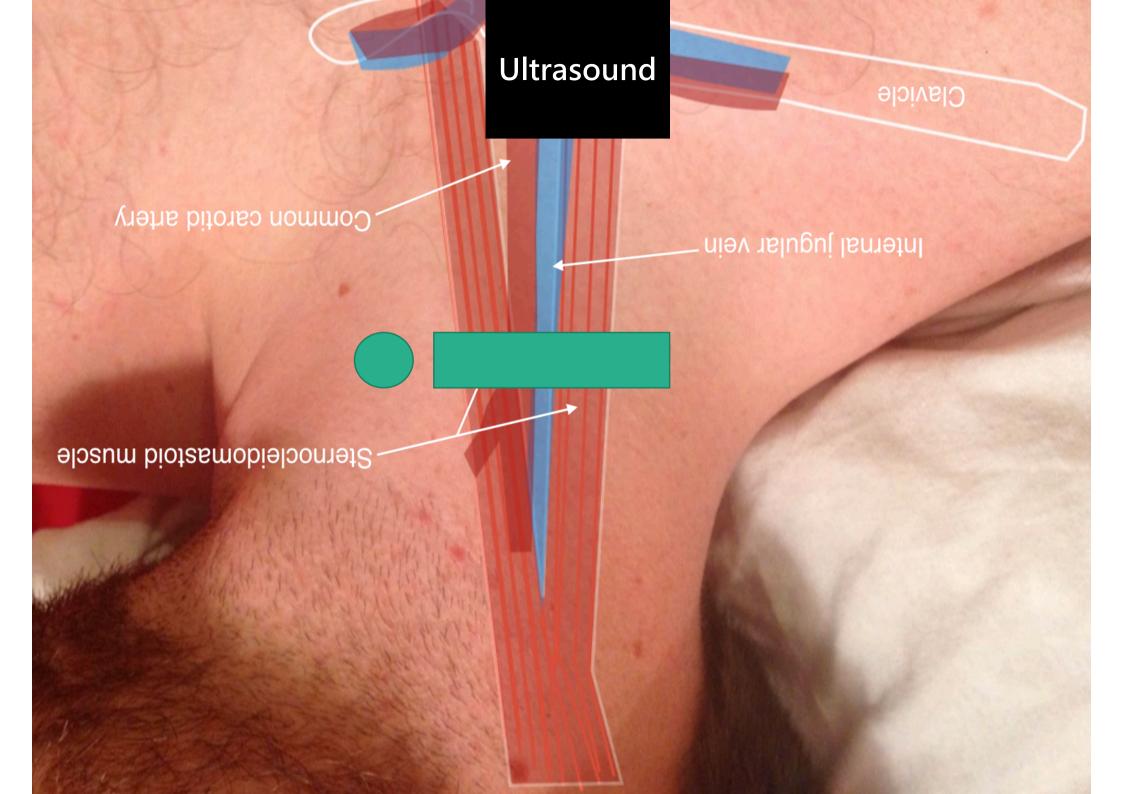






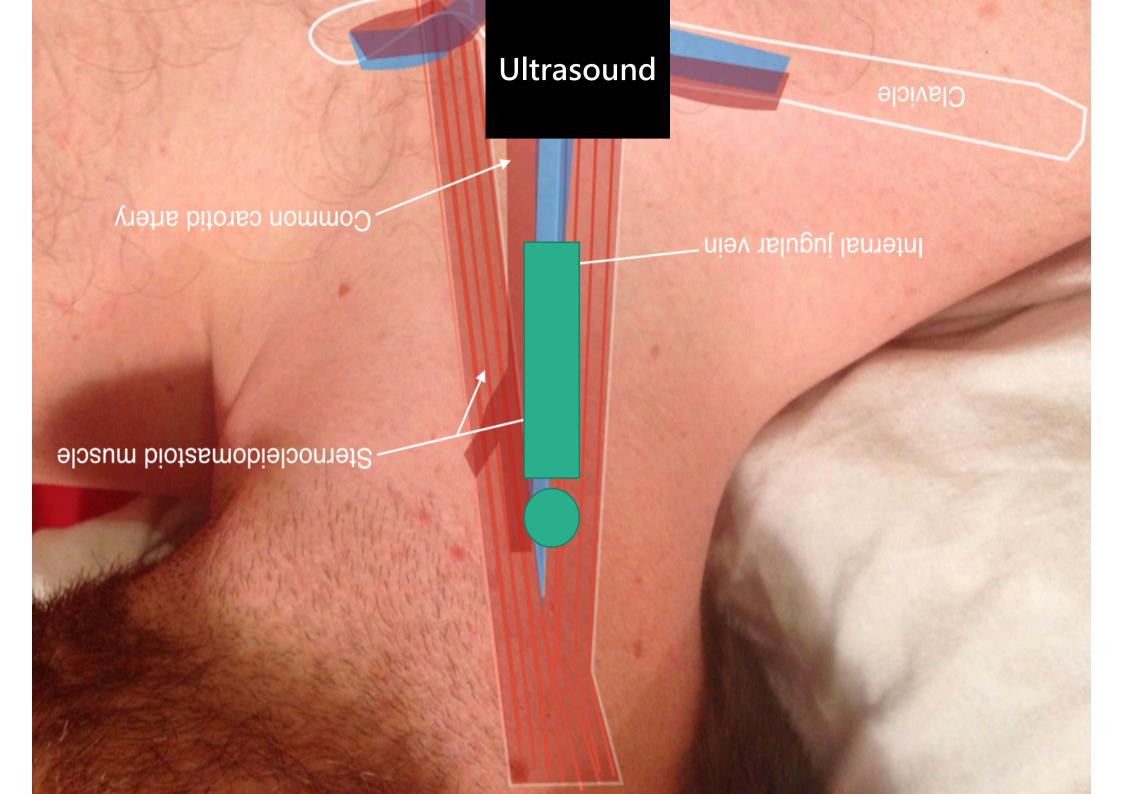
上戰場吧!!





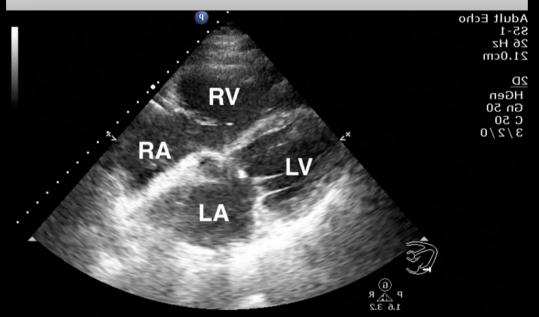


4.5cm





Bubble test /Subcostal 4



Sonography for CVC

- 救援、解剖變異
- In / Out plane
- 擺位、擺位、擺位

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