
**UNIVERSITA' DEGLI STUDI DI
PALERMO**

**DIPARTIMENTO DI CHIRURGIA GENERALE ed
Oncologica**

U.O. CHIRURGIA GENERALE AD INDIRIZZO TORACICO

**XVII Corso Nazionale di Aggiornamento SIdEM“
Palermo 18/19/20 ottobre 2012**

**“U.S. GUIDED CENTRAL VENUS
CATHETERIZATION**

Prof. M.Cajozzo

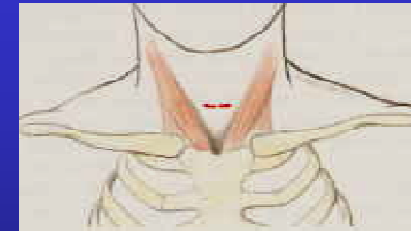


INDICAZIONI

- **NPT**
- **TERAPIE E.V.
DI LUNGA DURATA**
- **INTERV.CHIRURGICI**
- **EMAFERESI**



ANATOMICAL LANDMARK AND RELATED COMPLICATIONS

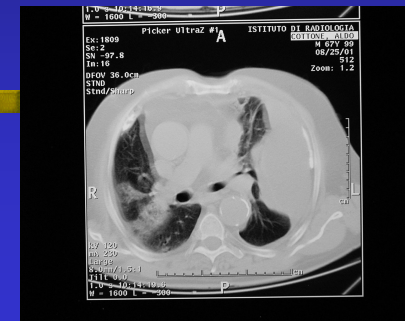
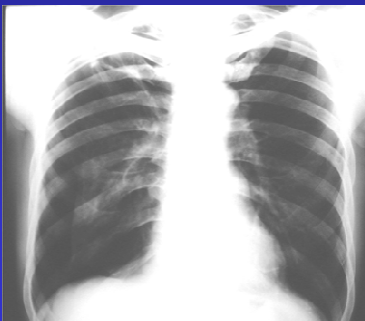


MAGGIORI

- PNEUMOTORACE
- EMORRAGIA
- PUNTURA ARTERIA

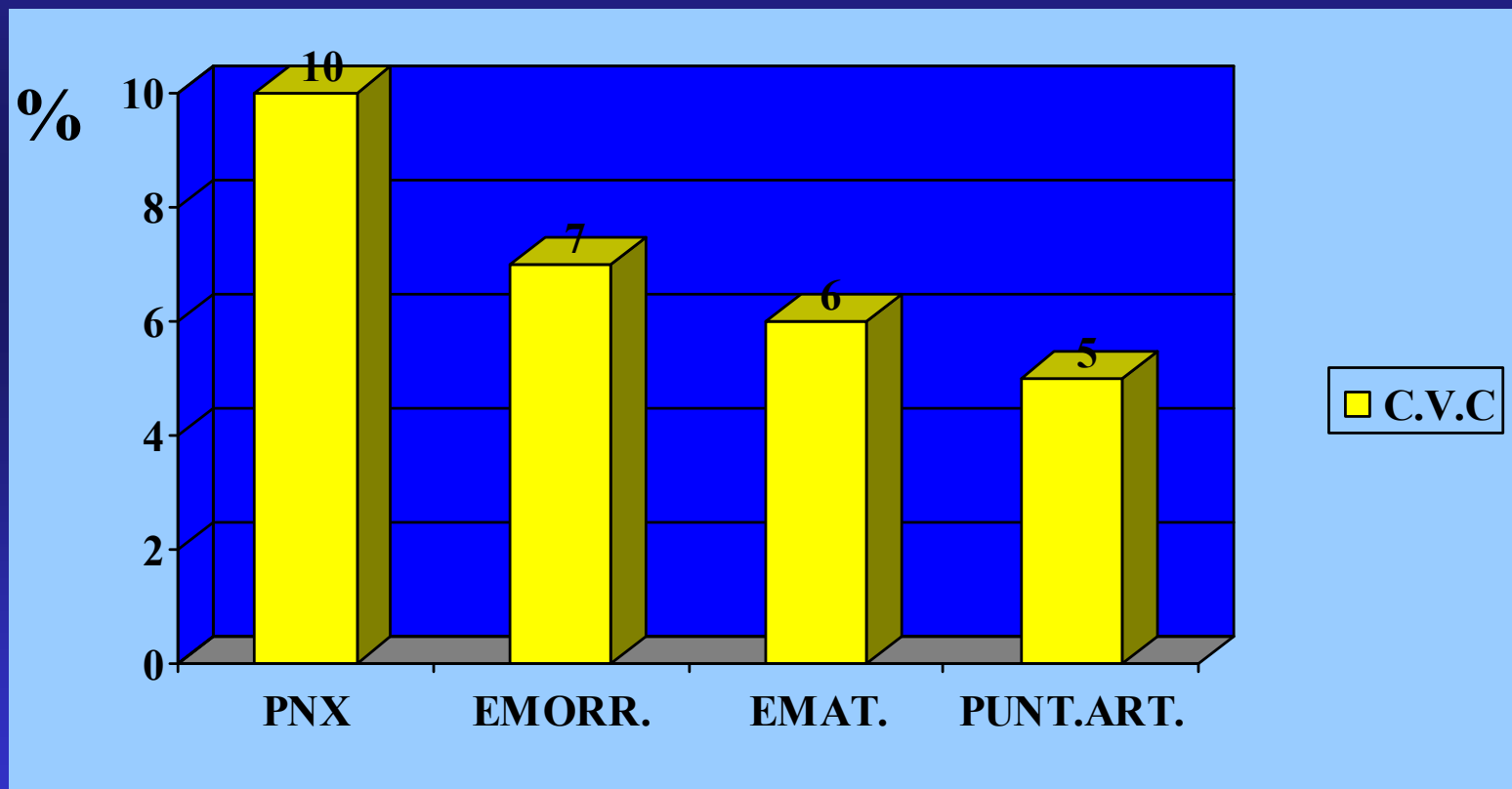
MINORI

- LESIONI DI NERVI
- EMATOMA
- KINKING



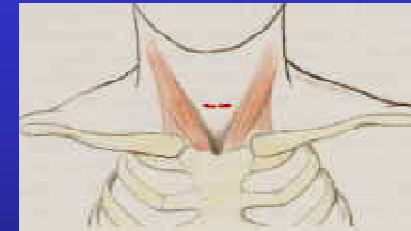


ANATOMICAL LANDMARK AND RELATED COMPLICATIONS





ANATOMICAL LANDMARK AND COST/BENEFIT - COMPLIANCE



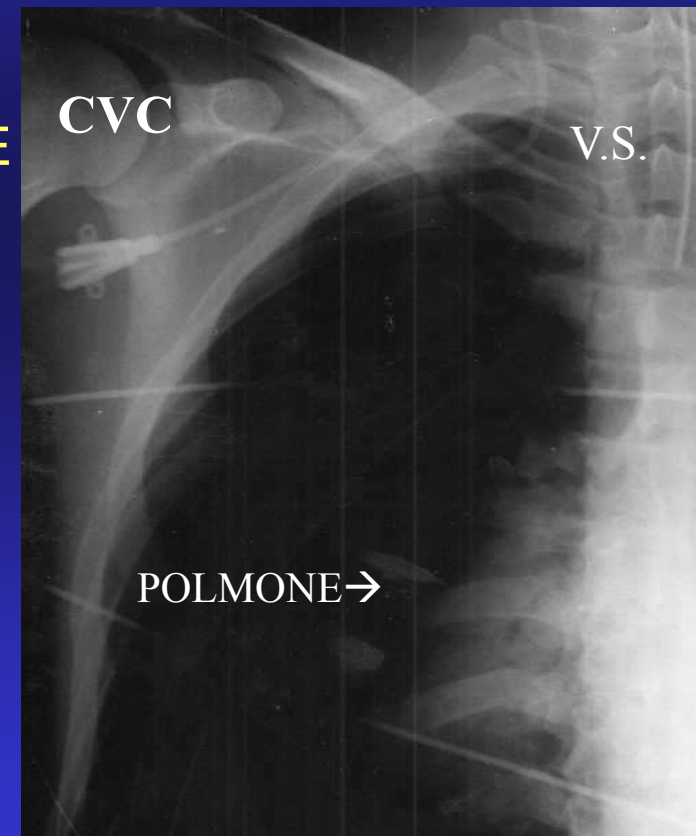
EMORRAGIA

■ COMPLICANZE

■ N.PASSAGGI

■ PERFORMING
TIME

PNX





COMPLICANZE ED INSUCCESSI

- **VARIAZIONI ANATOMICHE (8%)**
- **DIFFICILE IDENTIFICAZIONE DEI REPERI ANAT.**
- **ELEVATO NUMERO DI PASSAGGI CON L'AGO**
- **LIVELLO DI ESPERIENZA**



10 –19 % FAILURE



10 –12 % COMPLICATIONS



US-GUIDED CENTRAL VEIN CATHETERIZATION Vs BLIND TECHNIQUE – PROSPECTIVE STUDY

196 CVC

105 U.S. GUIDED

91 NO U.S. GUIDED

**PARAMETRI
VALUTATI**

- VELOCITA' DI ESECUZIONE
- % DI SUCCESSI
- % DI COMPLICANZE IMMEDIATE
- NUMERO DI PASSAGGI CON L'AGO





US-GUIDED CENTRAL VEIN CATHETERIZATION TECNICA



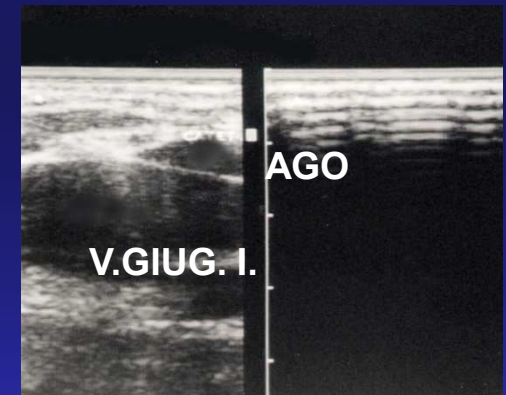
- VISUALIZZAZIONE U.S. V. CENTRALE
- INTRODUZIONE AGO 18 GAUGE (VISIONE DIRETTA)
- INTRODUZIONE FILO GUIDA
- INTRODUZIONE CATETERE VENOSO CENTRALE



US-GUIDED CENTRAL VEIN CATHETERIZATION TECNICA

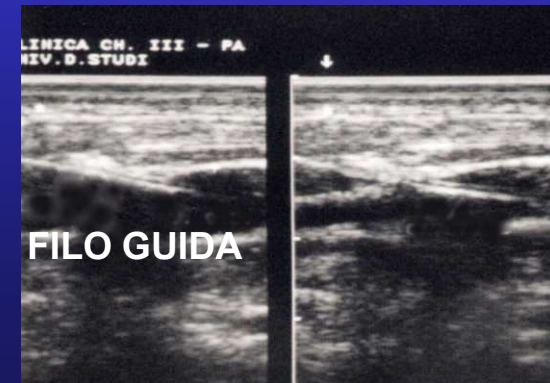


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- INTRODUZIONE FILO GUIDA
- INTRODUZIONE CATETERE VENOSO CENTRALE





US-GUIDED CENTRAL VEIN CATHETERIZATION TECNICA

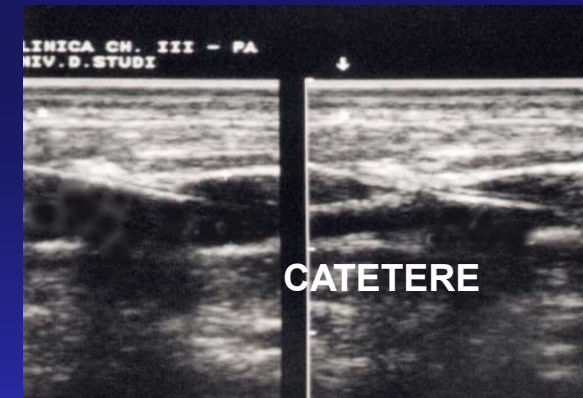


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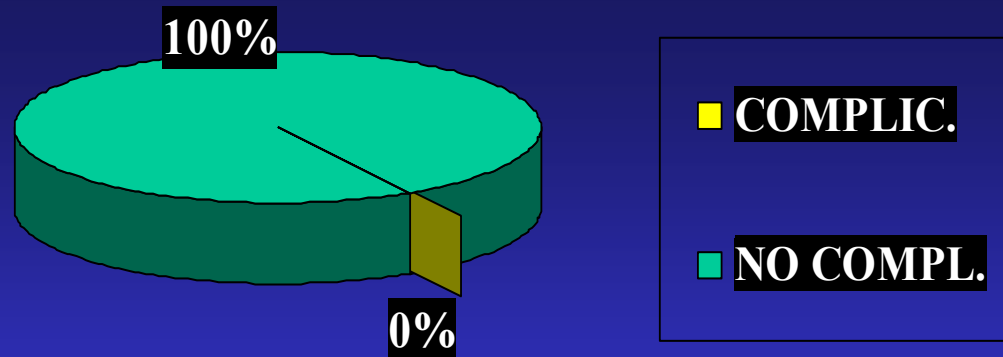




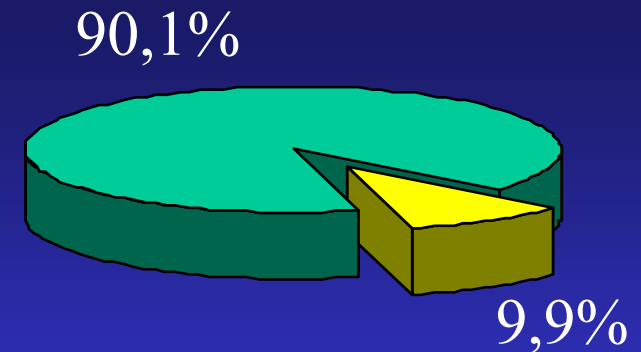
US-GUIDED CENTRAL VEIN CATHETERIZATION vs "BLIND TECHNIQUE" – PROSPECTIVE STUDY

RISULTATI : "COMPLICANZE"

U.S GUIDED.



ANATOMICAL LANDMARK



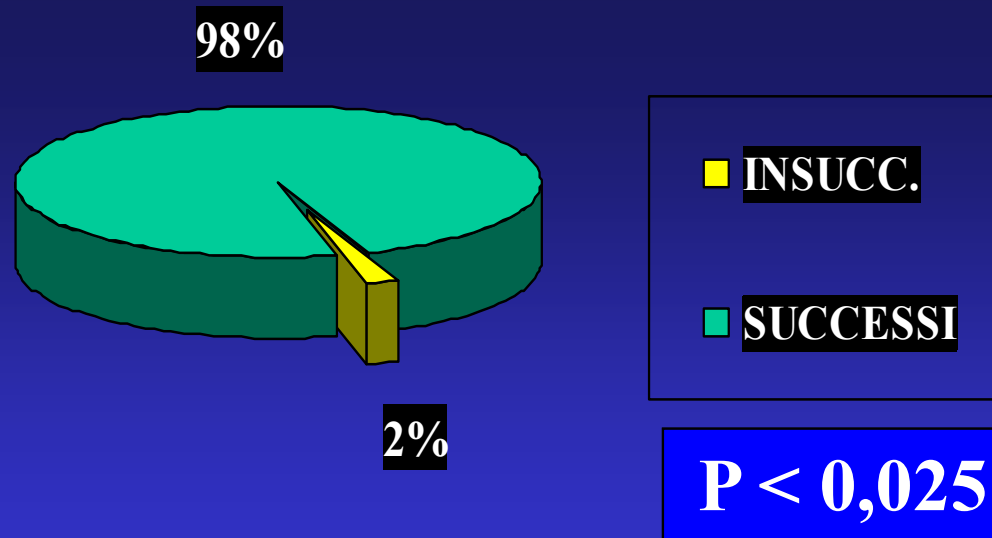
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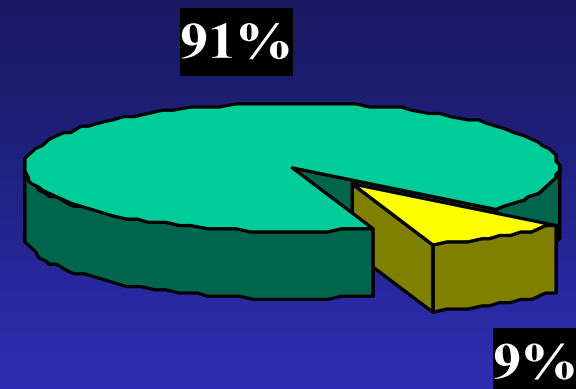
US-GUIDED CENTRAL VEIN CATHETERIZATION vs "BLIND TECHNIQUE" – PROSPECTIVE STUDY

RISULTATI : "SUCCESSI"

U.S GUIDED.



ANATOMICAL LANDMARK

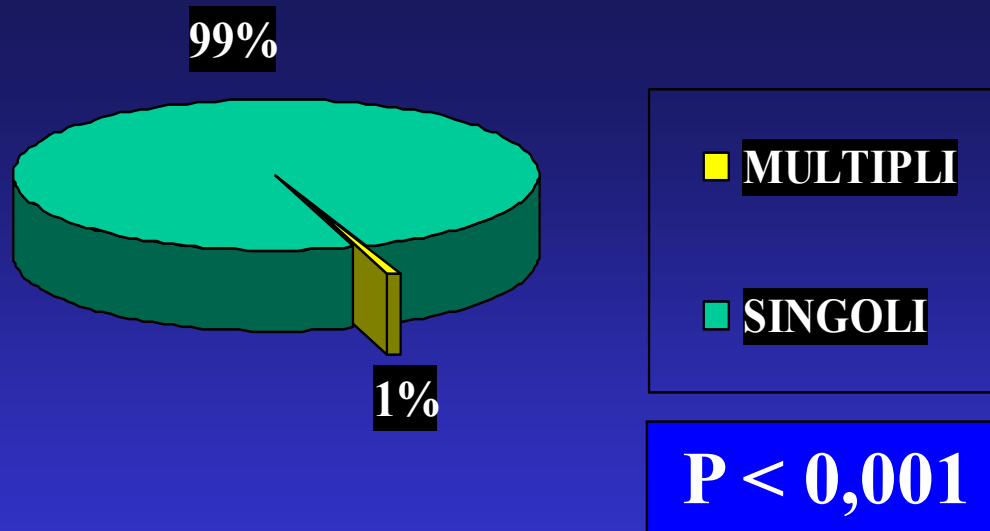




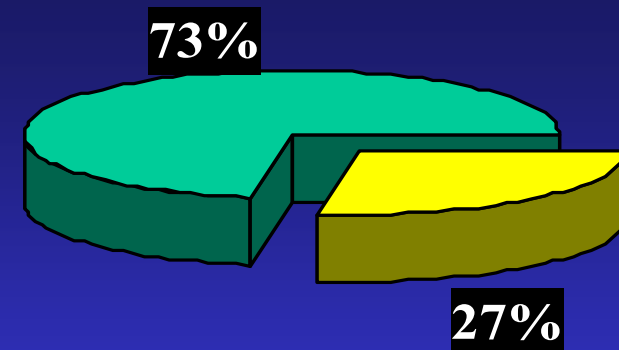
US-GUIDED CENTRAL VEIN CATHETERIZATION vs BLIND TECHNIQUE” – PROSPECTIVE STUDY

RISULTATI : “PASSAGGI CON AGO”

U.S GUIDED.



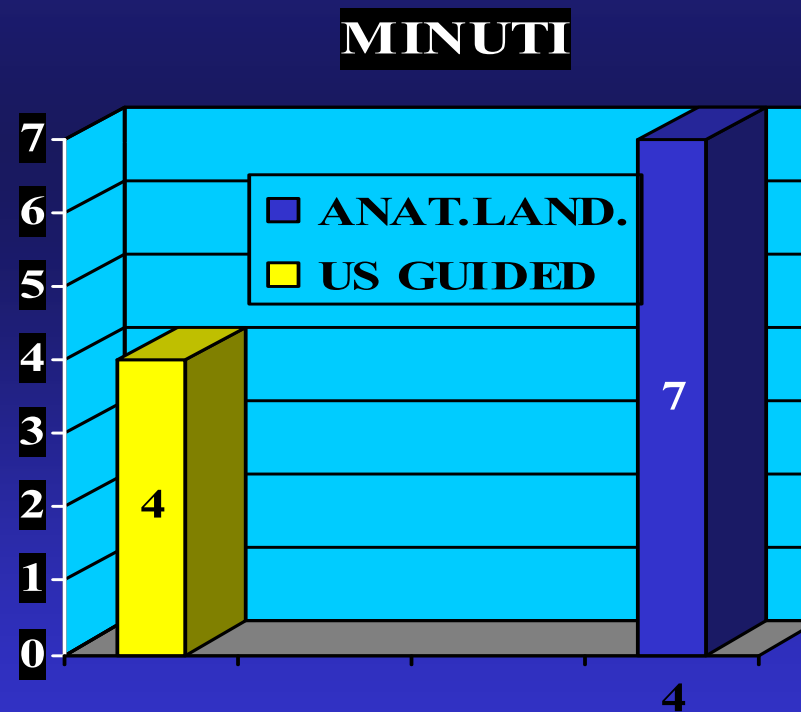
ANATOMICAL LANDMARK





US-GUIDED CENTRAL VEIN CATHETERIZATION vs BLIND TECHNIQUE" – PROSPECTIVE STUDY

TEMPI IMPIEGATI

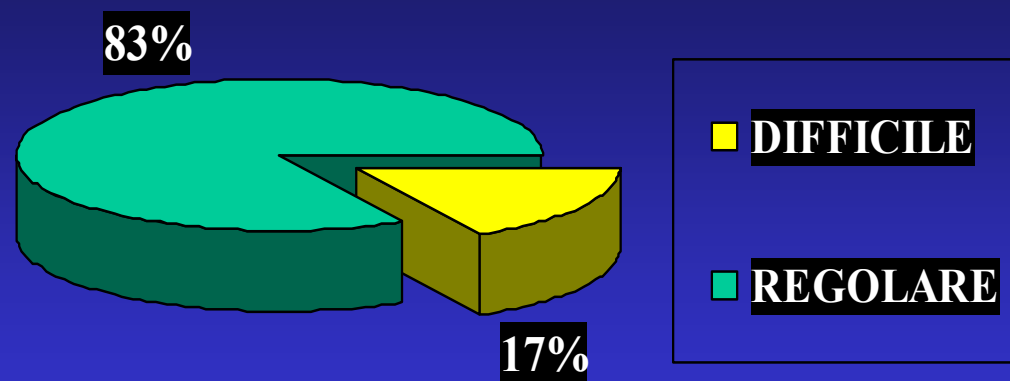




“DIFFICILE IDENTIFICAZIONE E/O ANOMALIA DELLA VENA ”

(U.S GUIDED Procedure.)

RISULTATI :





US-GUIDED CENTRAL VEIN CATHETERIZATION

VANTAGGI

- FACILITA' DI ESECUZIONE
- RAPIDITA'
- BREVE PRE-TRIAL TRAINING
- BASSO NUMERO DI COMPLICANZE
- BUONA COMPLIANCE
- ELEVATO NUMERO DI SUCCESSI

