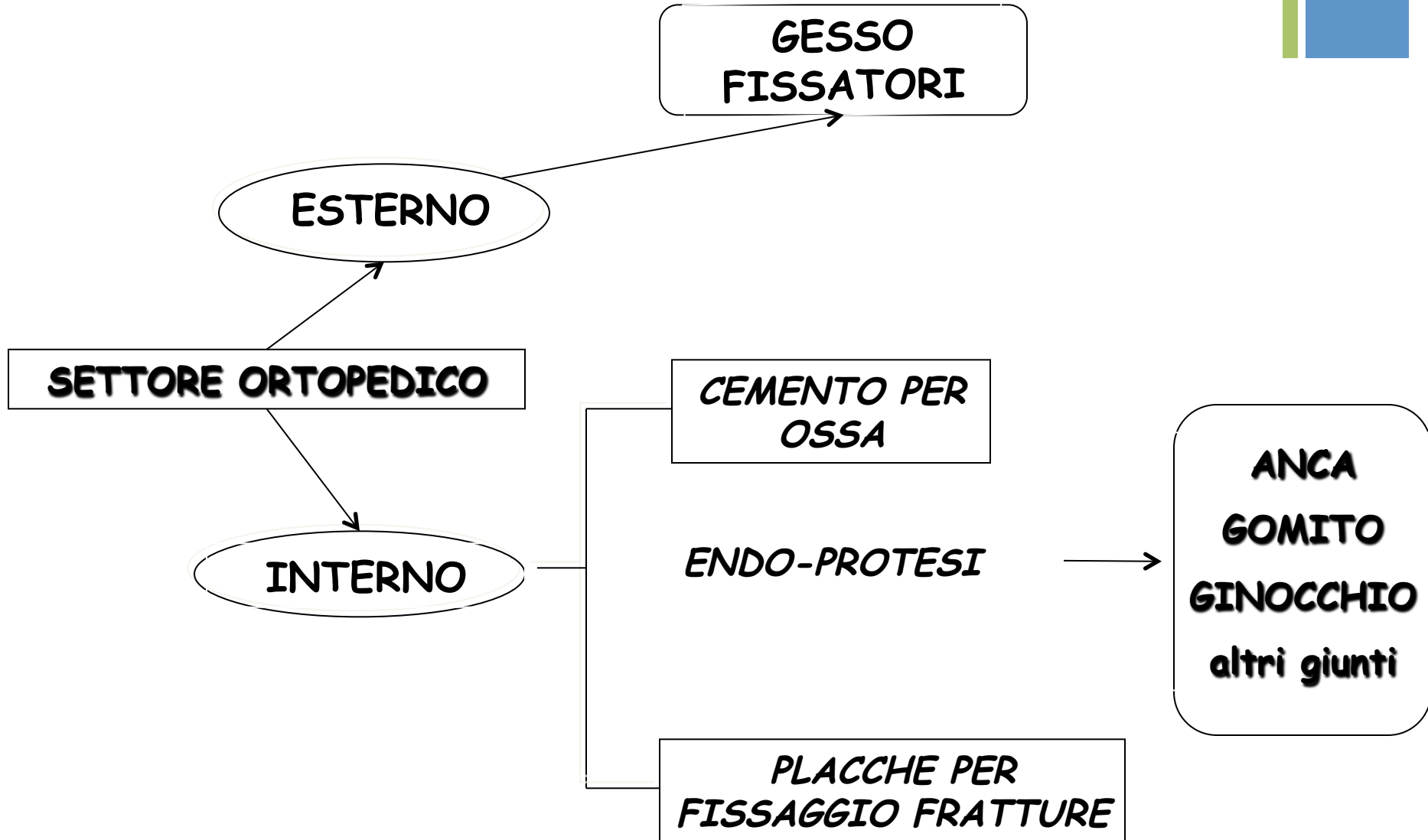


Introduzione

g.vozzi@centropiaggio.unipi.it

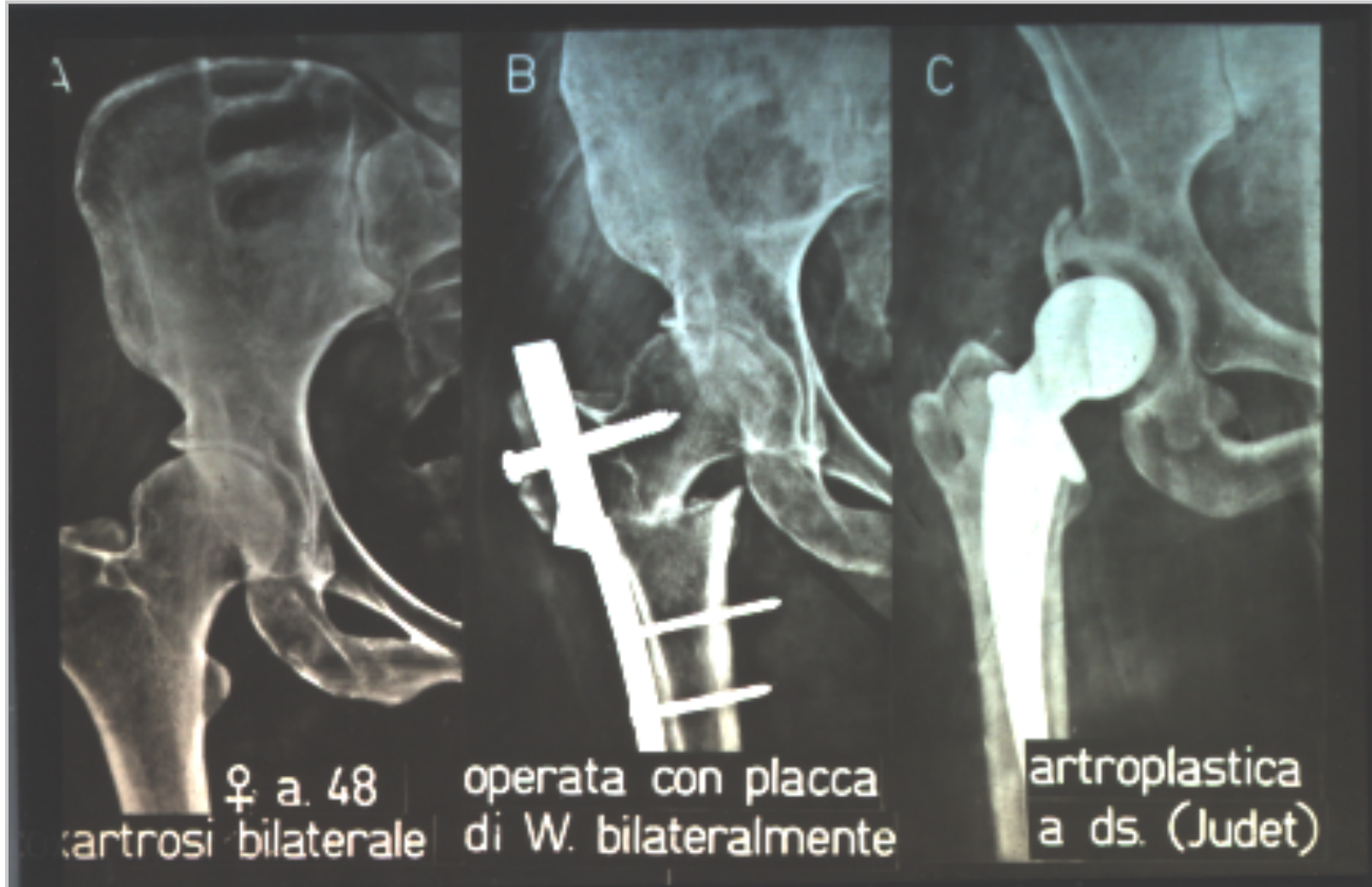
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Settore ortopedico



+

Settore ortopedico



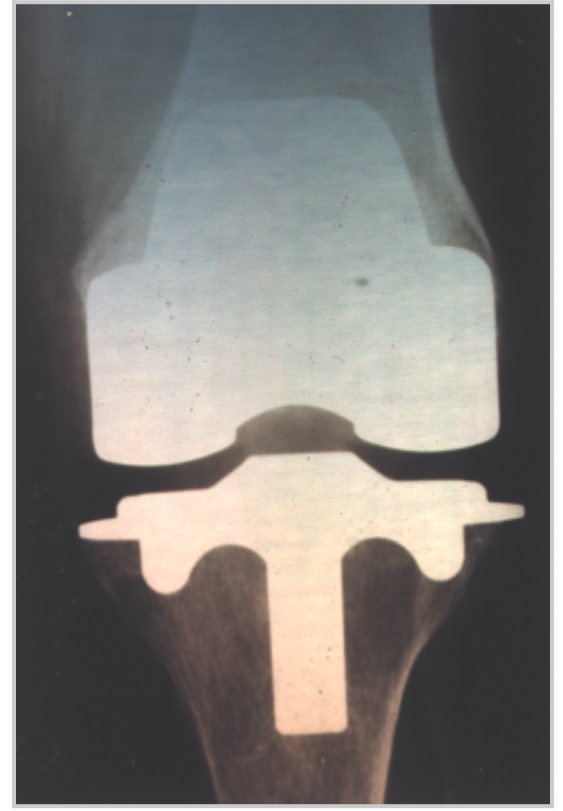
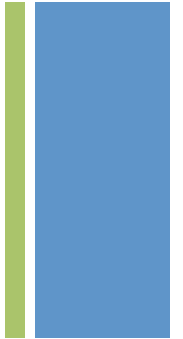
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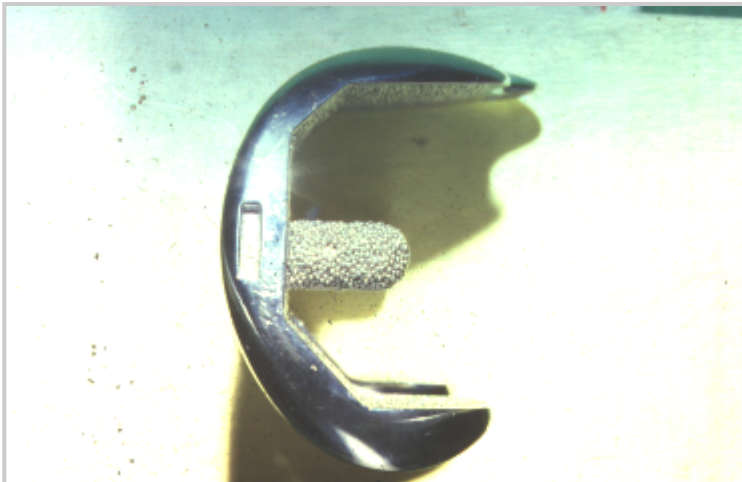
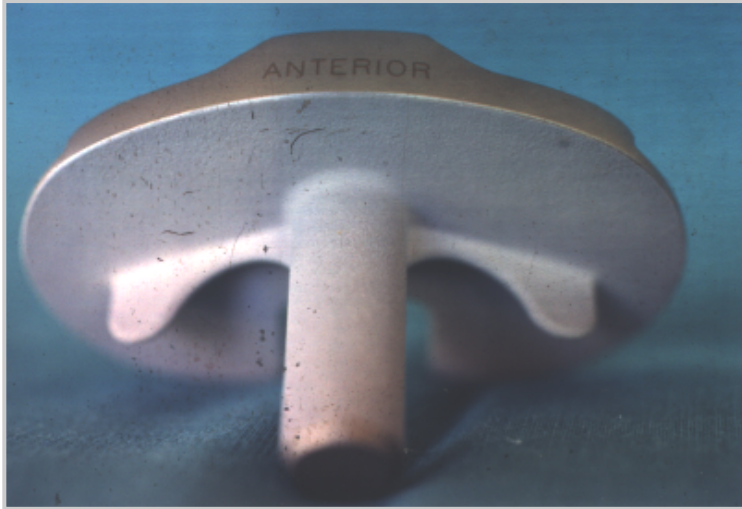
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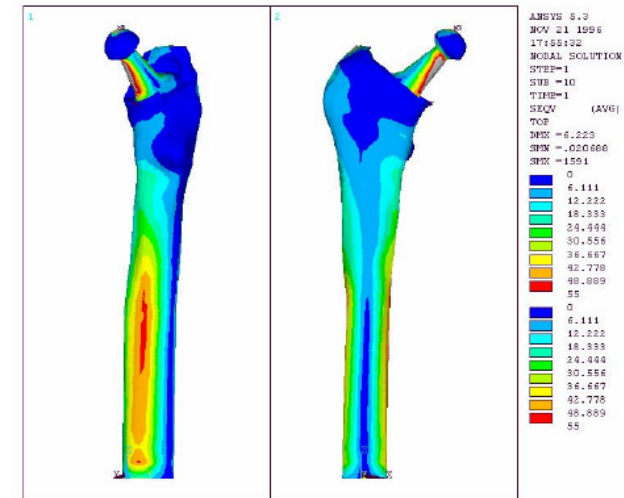
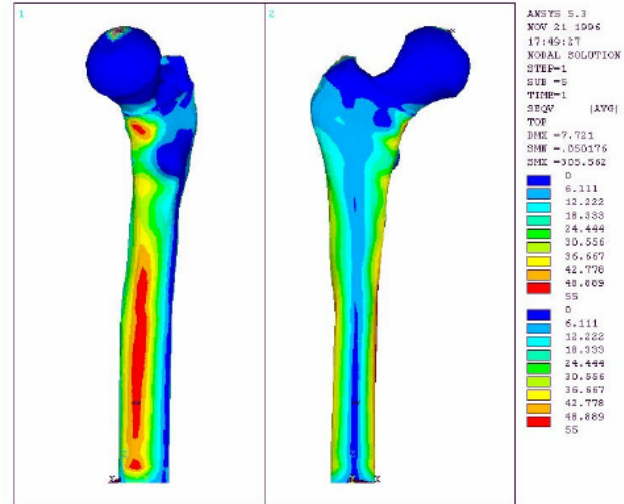
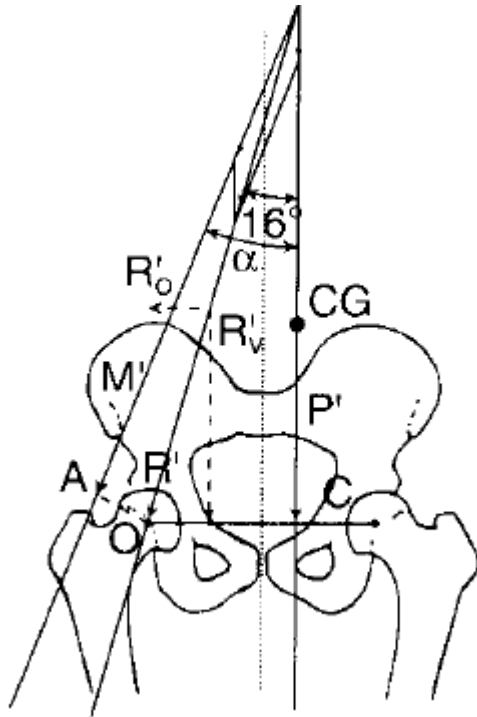
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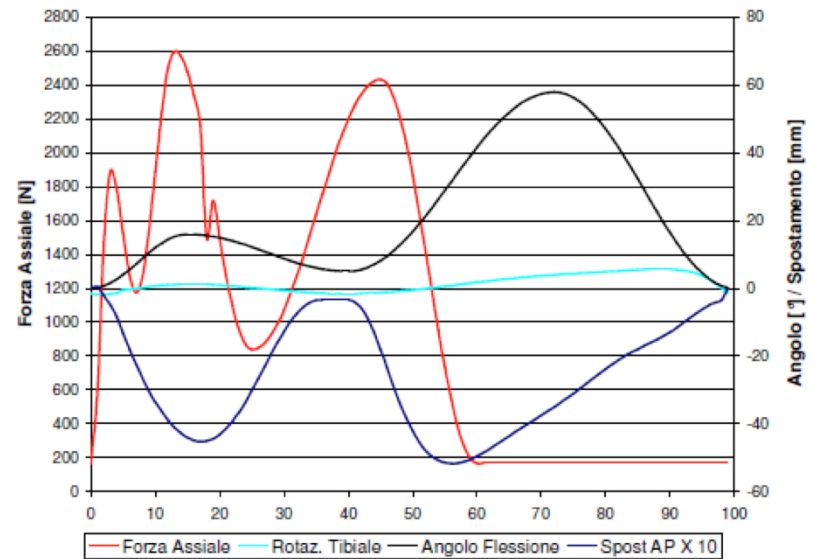
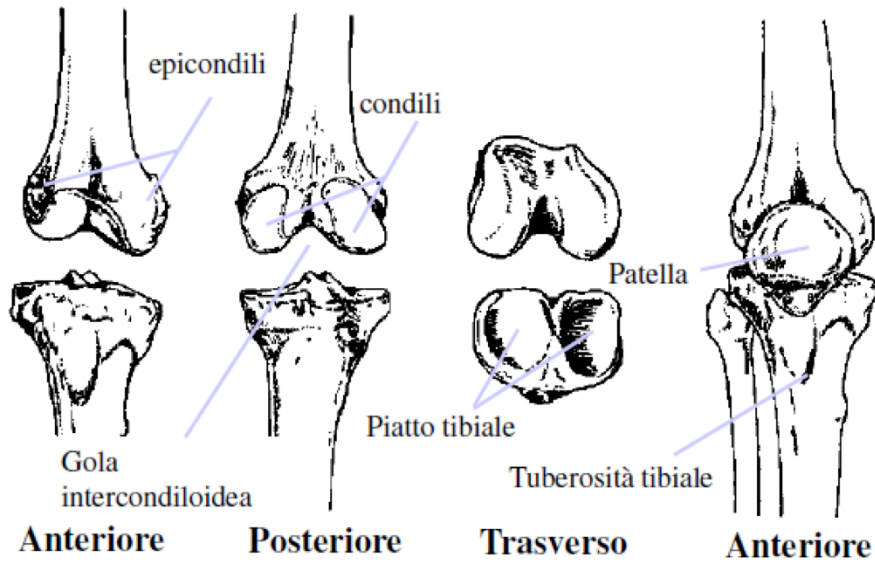


Protesi ortopediche



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Protesi ortopediche

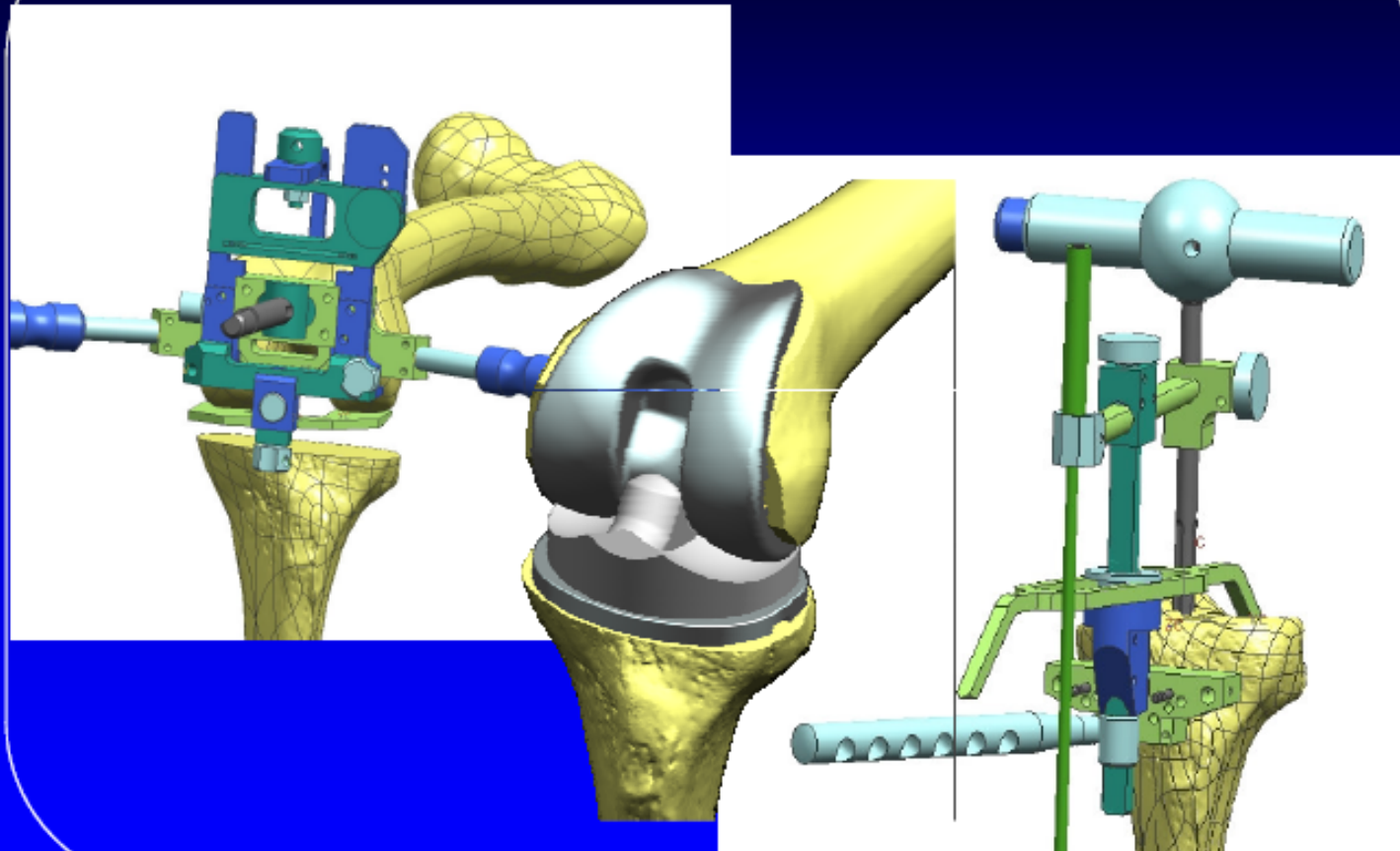




Protesi ortopediche

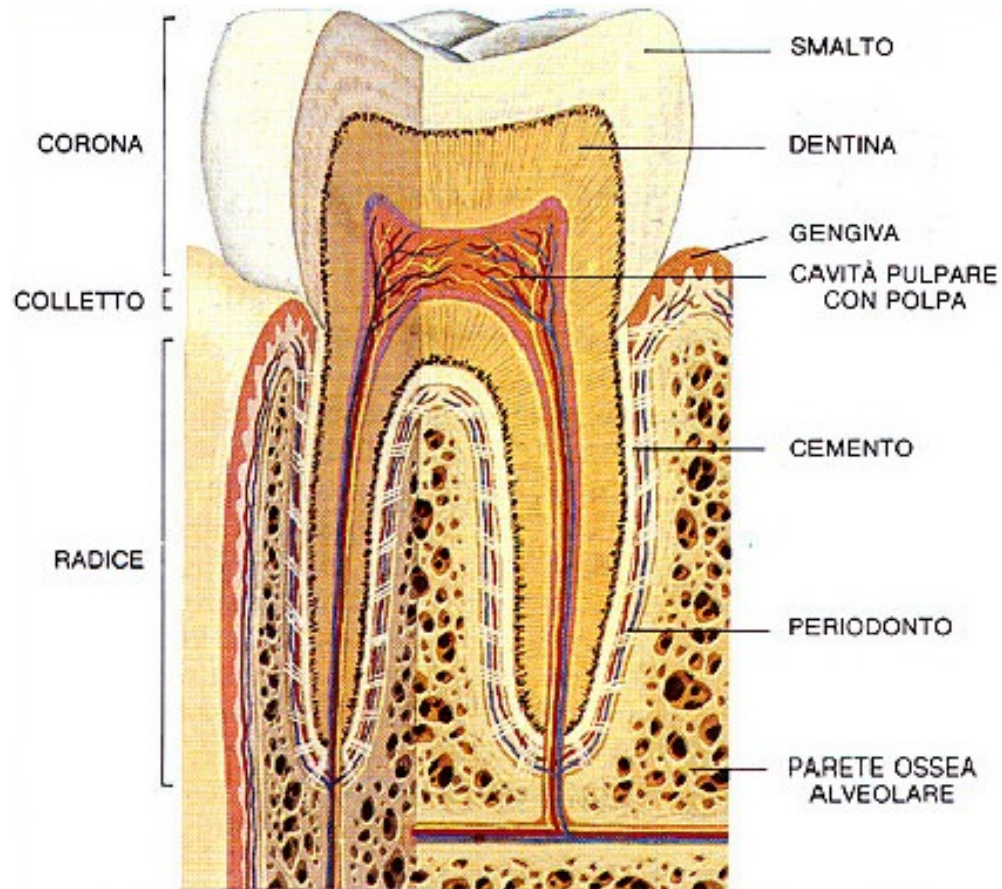


Progettazione CAD interamente tridimensionale



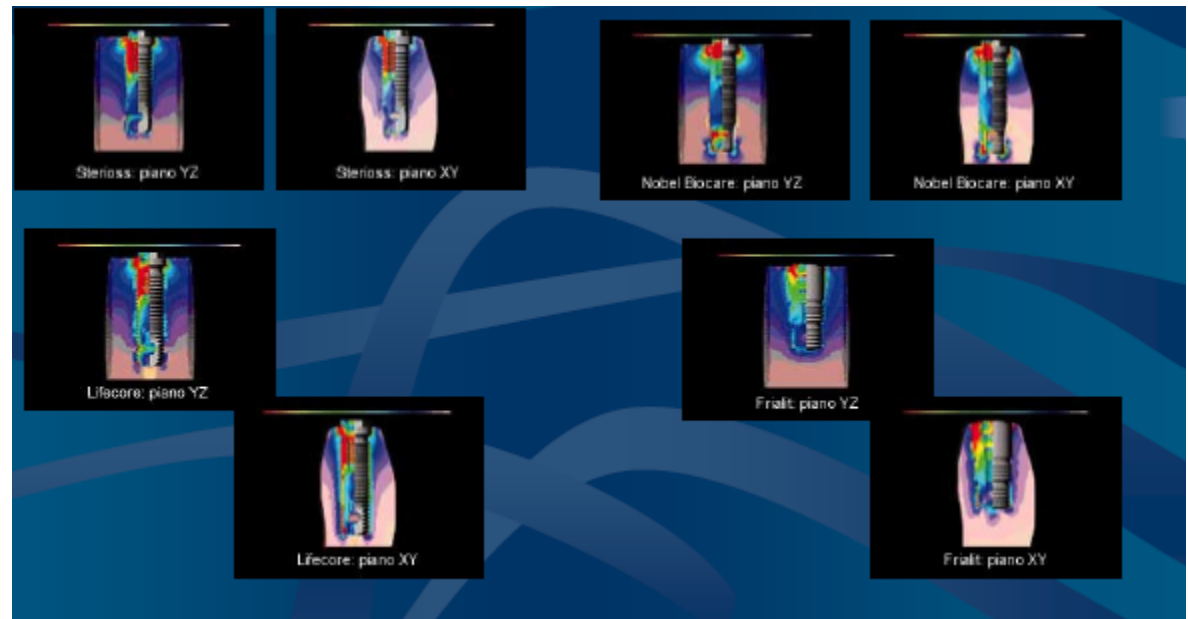
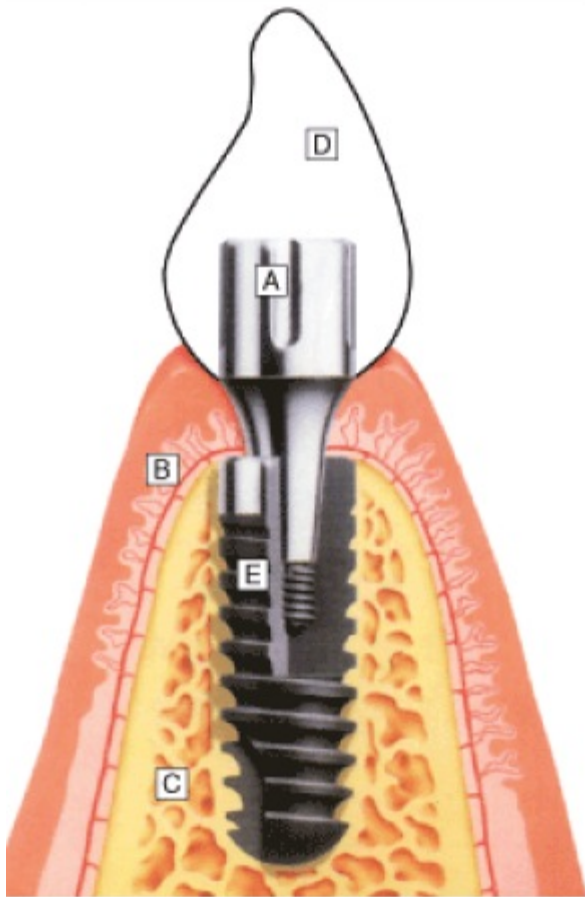


Impianti dentari



+

Impianti dentari



+

Endoprotesi vascolari



CONDOTTI VASCOLARI

VALVOLE CARDIACHE



Protesi vascolari

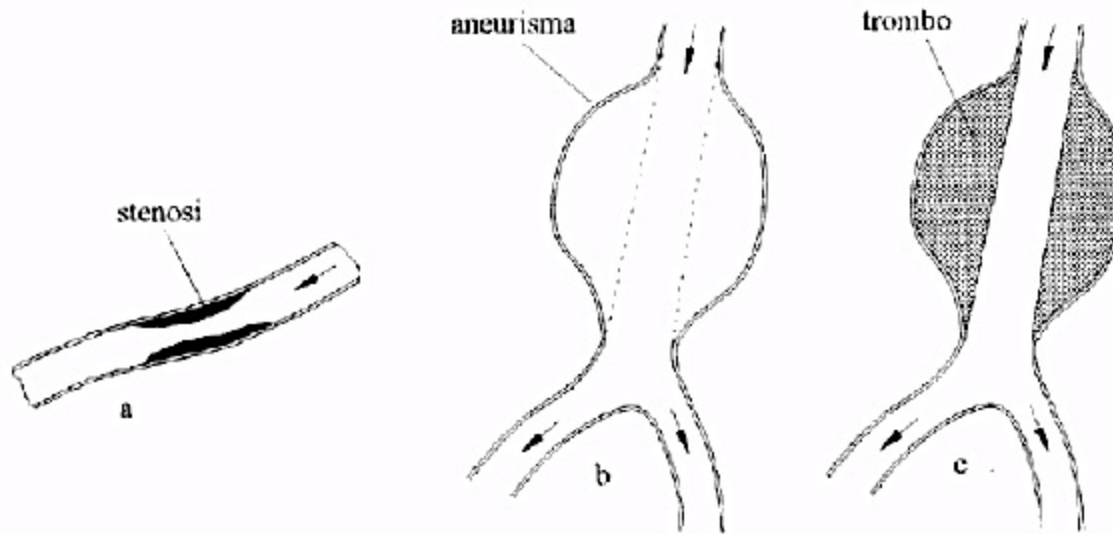
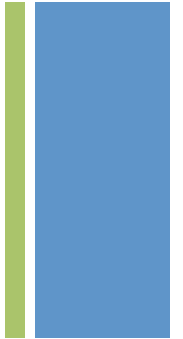


Figura 8.1 - Principali patologie arteriose. a: stenosi; b: aneurisma; c: aneurisma trombizzato.

+

Protesi vascolari

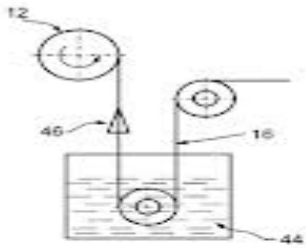


Fig. 5

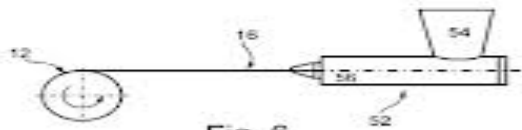
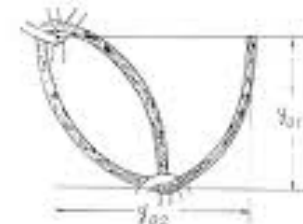
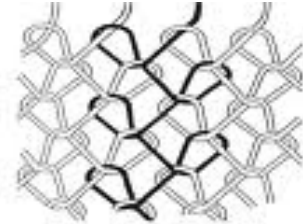
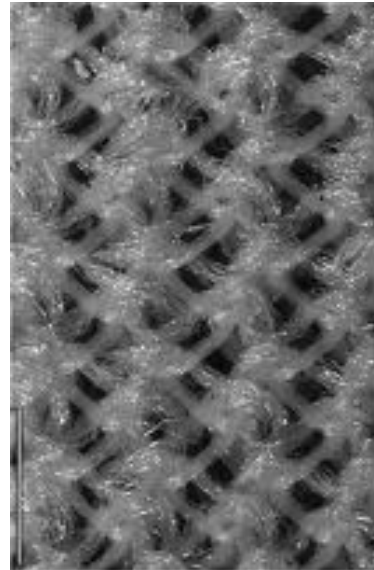


Fig. 6



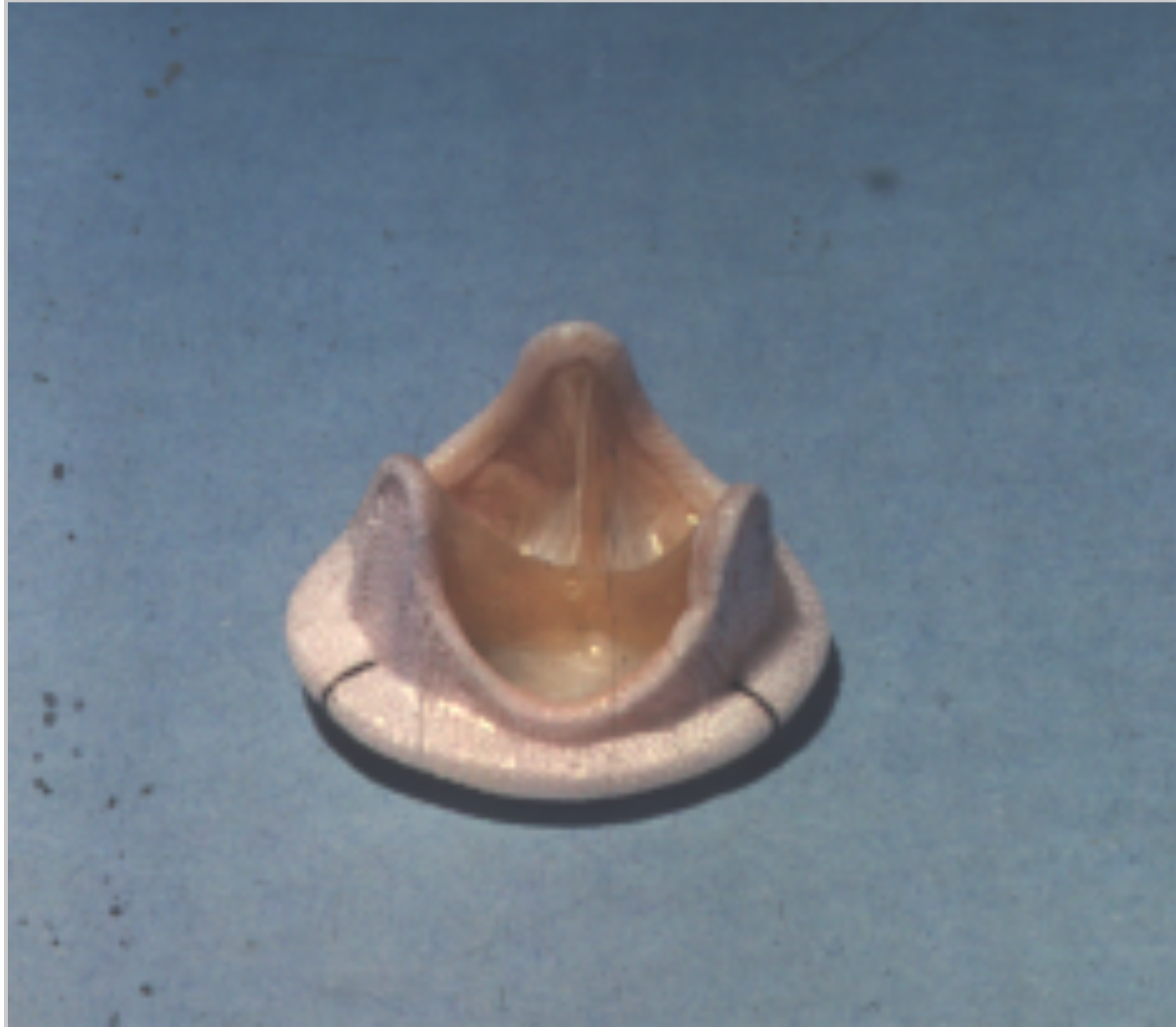
Fig. 7

STRUTPATENT.COM



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Valvole cardiache biologiche



+

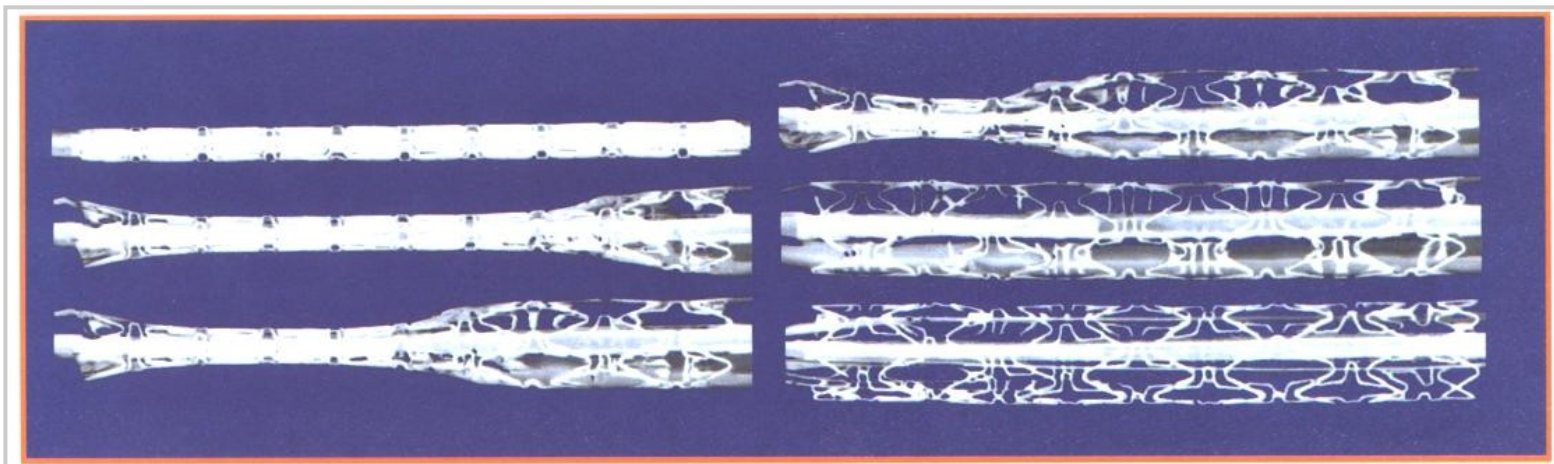
Valvole cardiache meccaniche



+

Stent coronarici

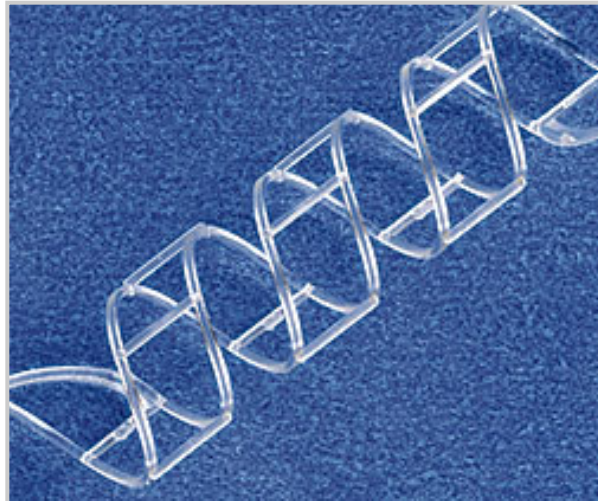
- Strutture tubulari collocate in arterie stenotiche per ripristinare la circolazione sanguigna.





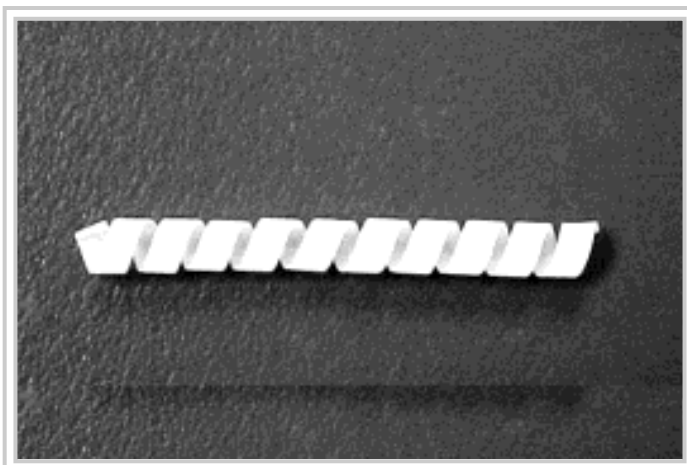
Stent coronarich

- Stent biodegradabili



Materiale: PLLA

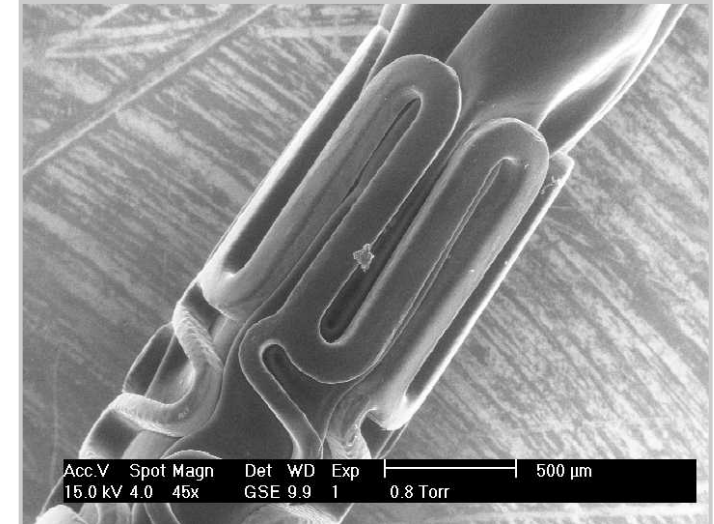
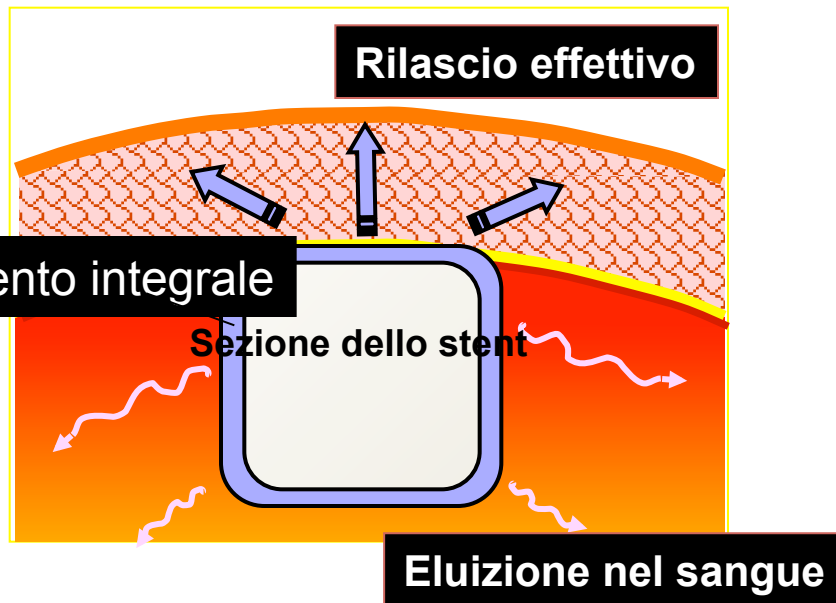
Duke Stent (1980): tessuto a setaccio, autoespandente, pressione di collasso 1-1,3 bar
Igaki-Tamai (elicoidale, Autoespandente)



+

Stent coronarici

- Drug Eluting Stent



+

Protesi mammarie

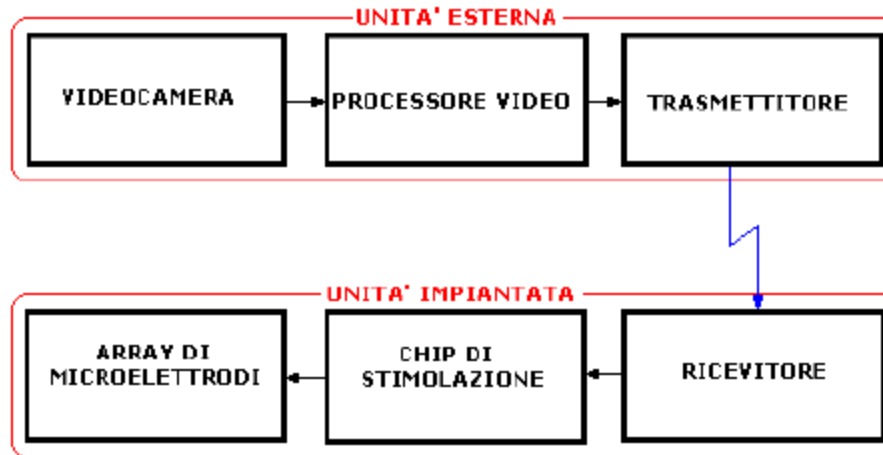


modello in acciaio

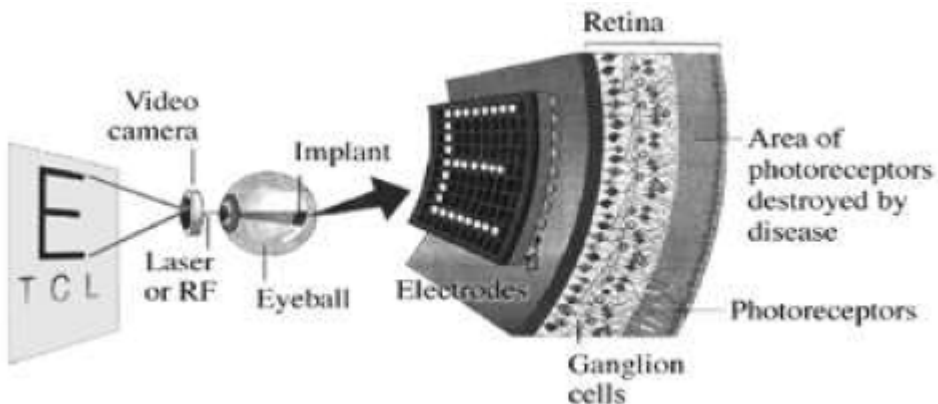
involucro terminato



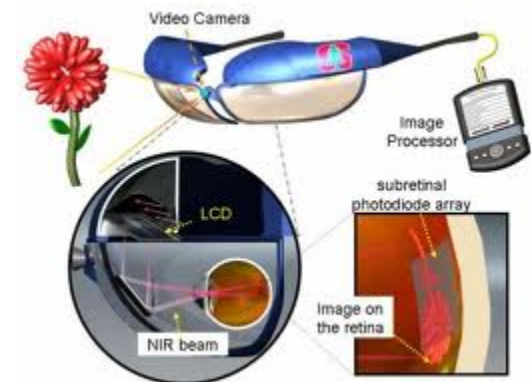
Protesi ottiche



Protesi epiretinale

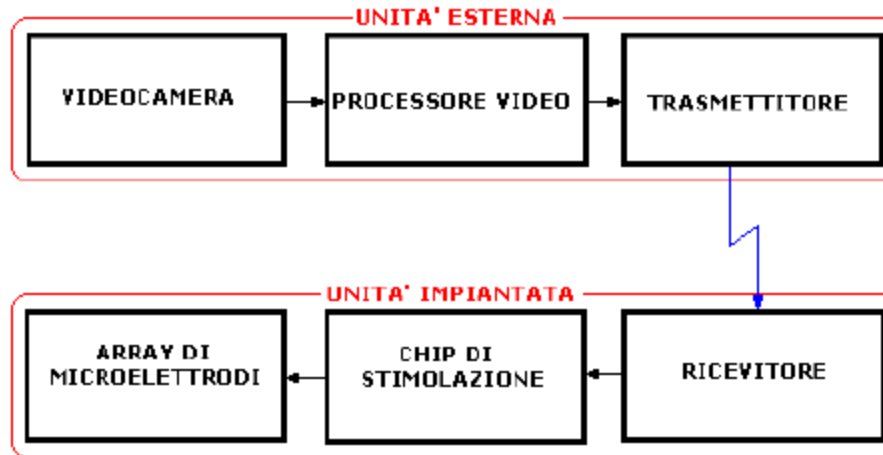


Protesi subretinale

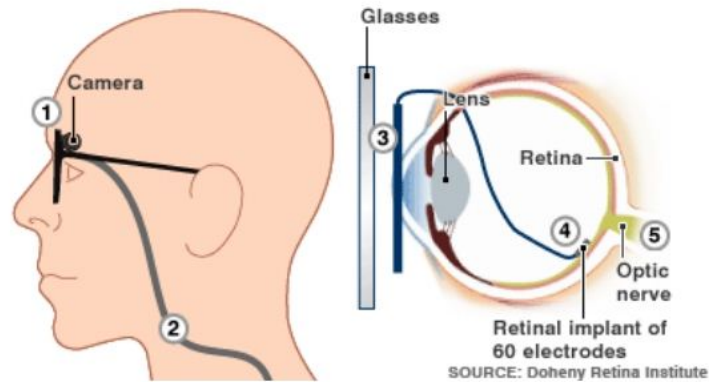




Protesi ottiche



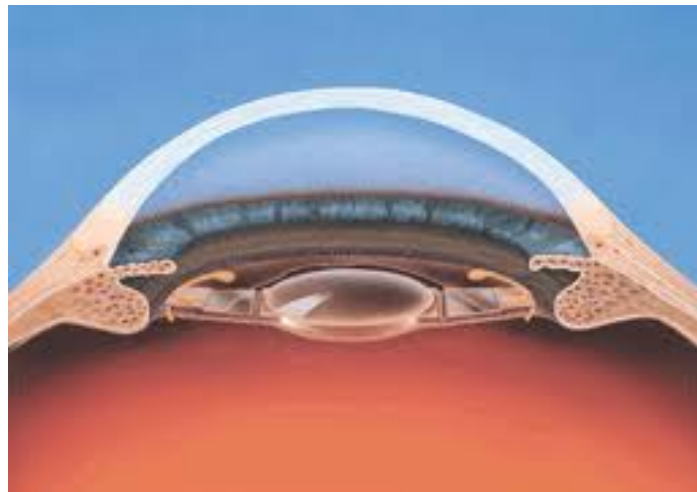
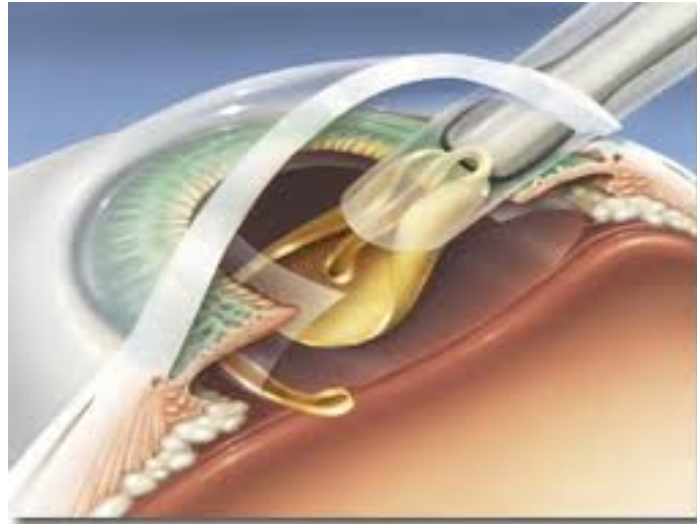
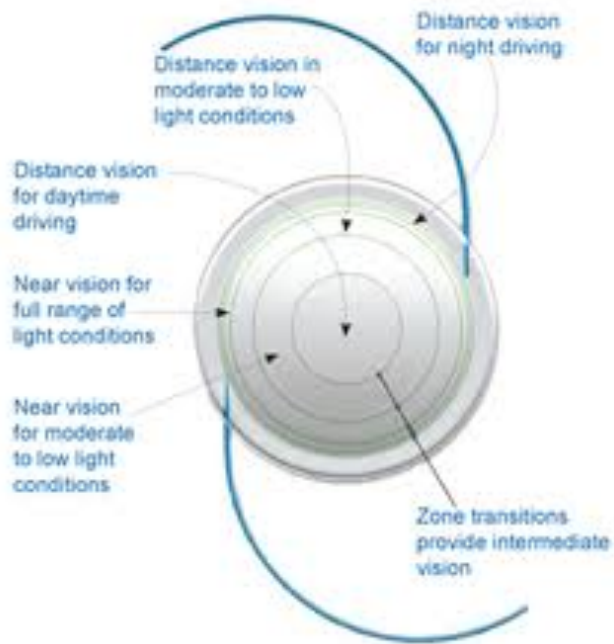
Protesi corticale



+

Protesi ottiche

- Intraocular lens



+

Protesi acustiche



LOGO L6

Retroauricolare di media potenza



LOGO LX

Endoauricolare

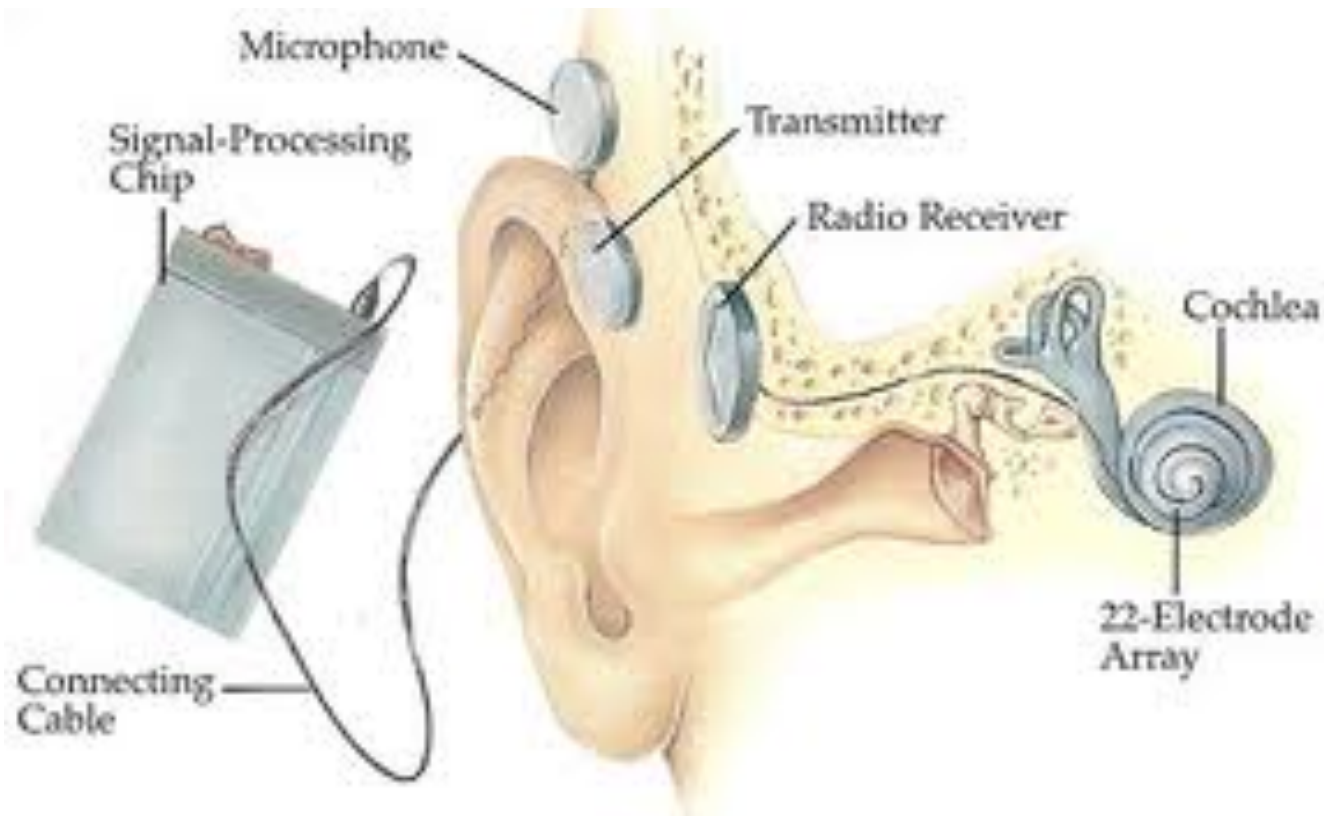
Protesi coclearari



+

Protesi acustiche

- Protesi corticali





Materiali del corso

- Bone Mechanics Handbook – Stephen C. Cowin - CRC Press INC
- The Biomedical Engineering Handbook – Joseph D. Bronzino – CRC Press
- Materiale fornito dai docenti

