



### Línea de tiempo consolidación ósea

Mariana Sarahi Espinosa Pérez.

5 – B.

Medicina física y rehabilitación.

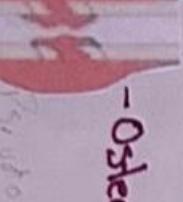
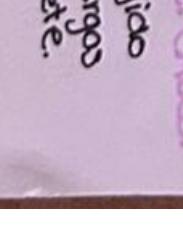
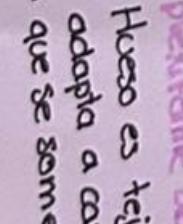
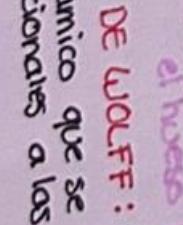
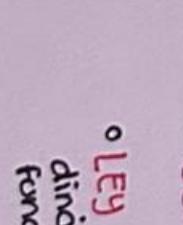
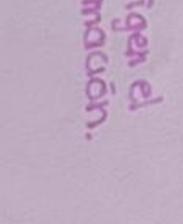
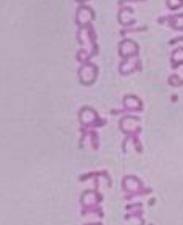
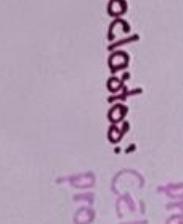
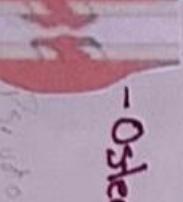
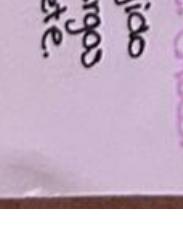
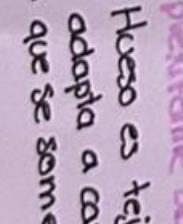
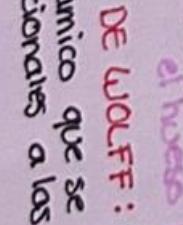
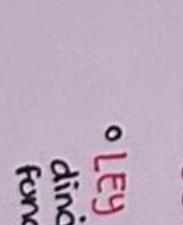
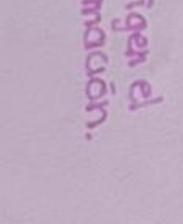
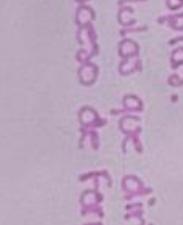
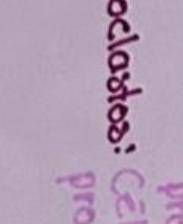
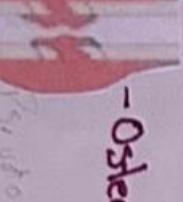
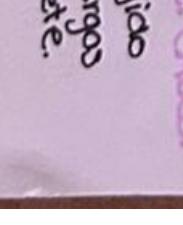
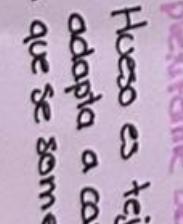
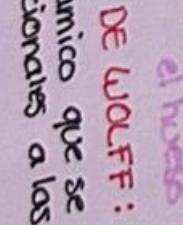
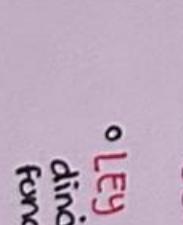
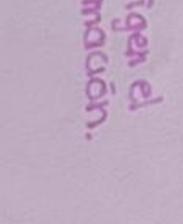
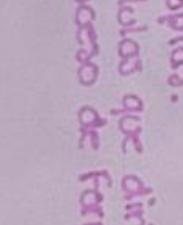
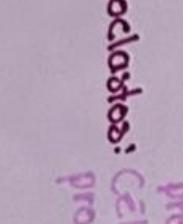
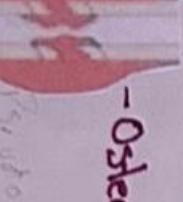
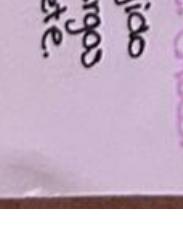
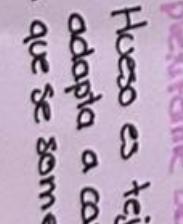
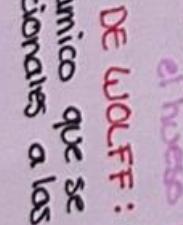
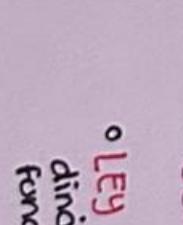
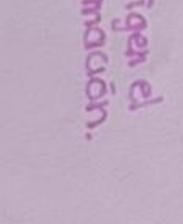
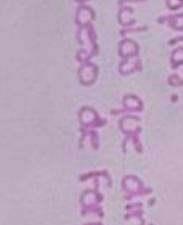
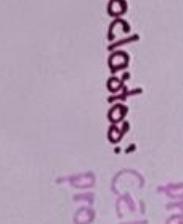
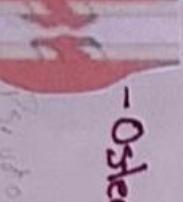
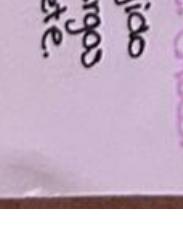
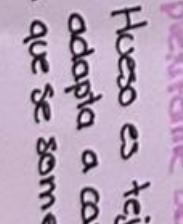
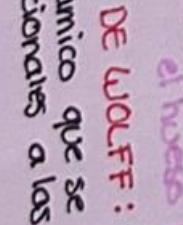
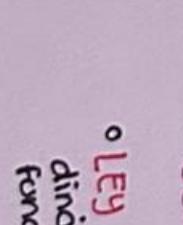
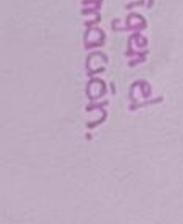
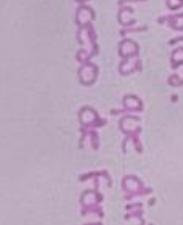
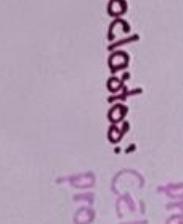
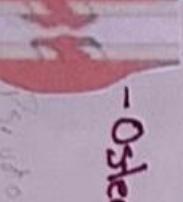
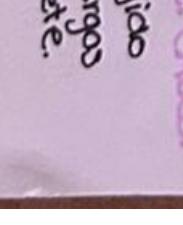
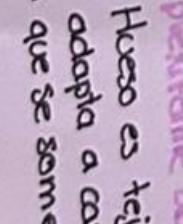
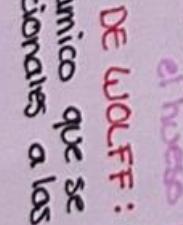
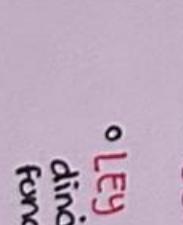
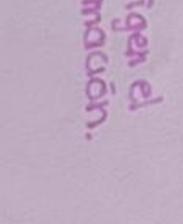
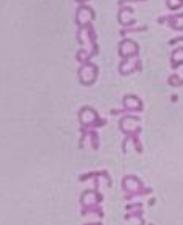
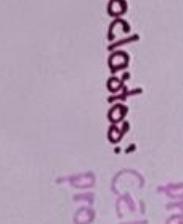
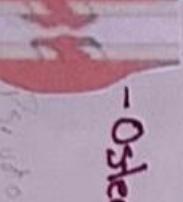
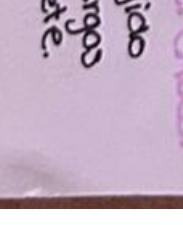
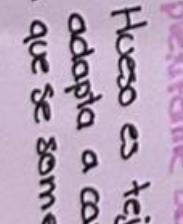
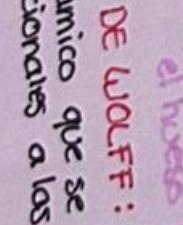
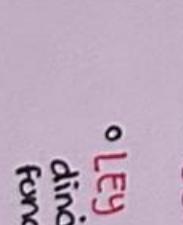
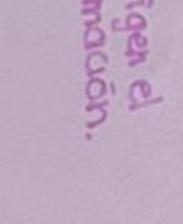
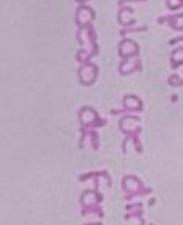
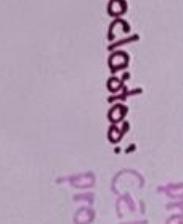
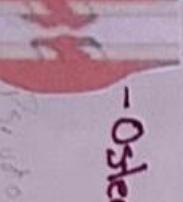
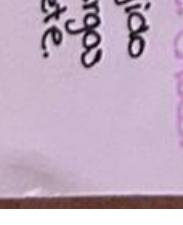
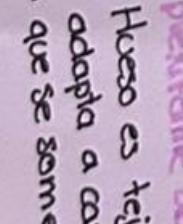
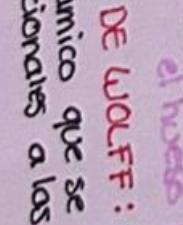
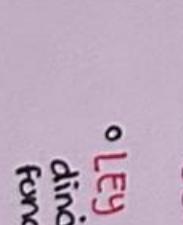
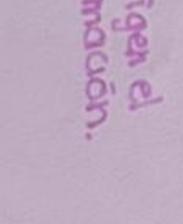
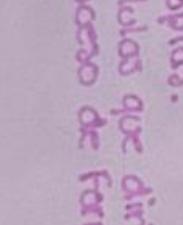
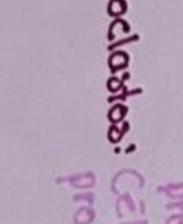
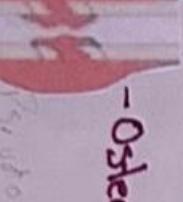
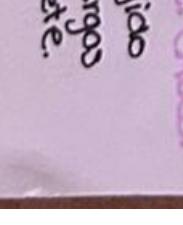
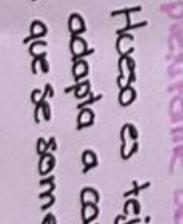
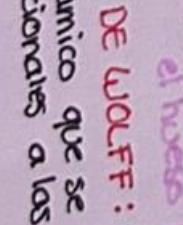
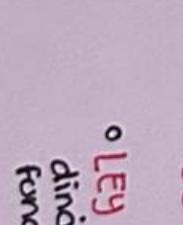
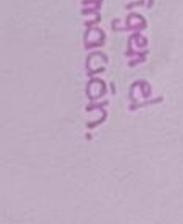
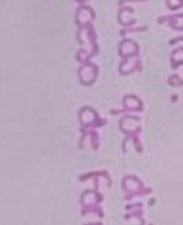
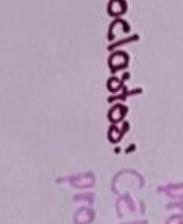
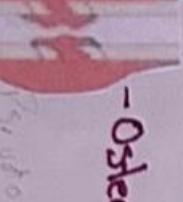
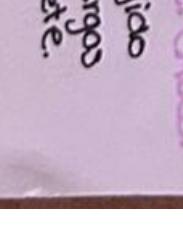
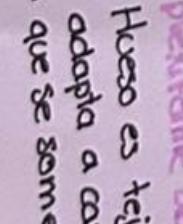
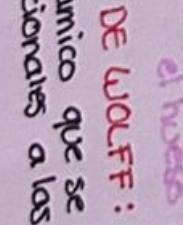
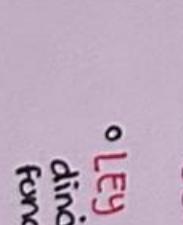
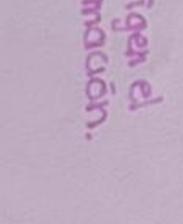
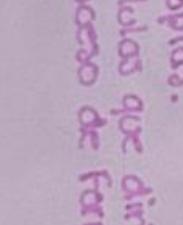
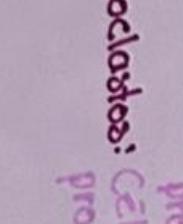
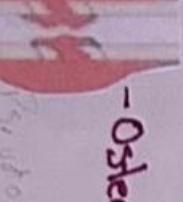
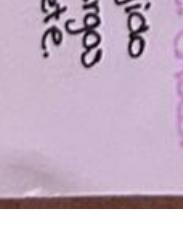
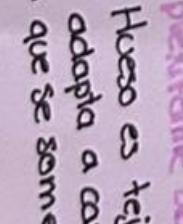
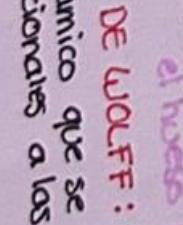
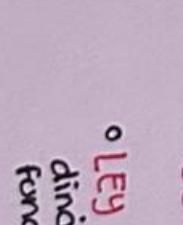
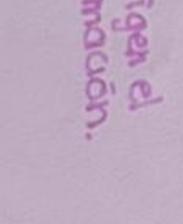
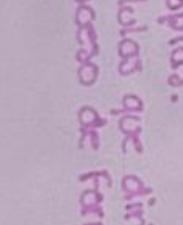
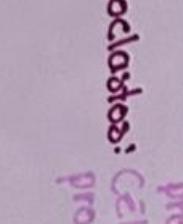
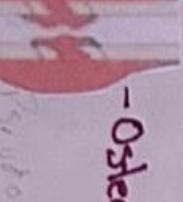
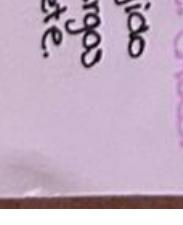
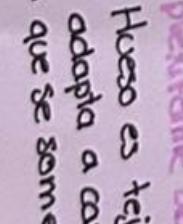
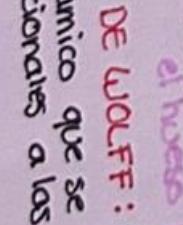
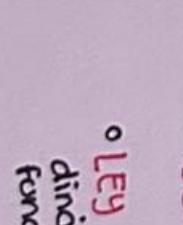
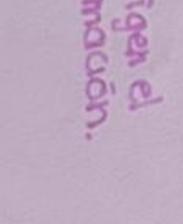
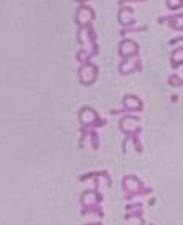
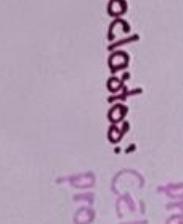
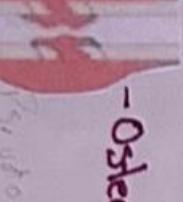
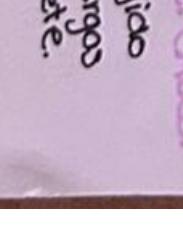
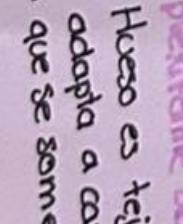
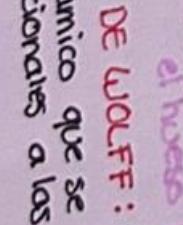
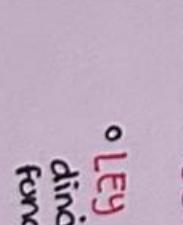
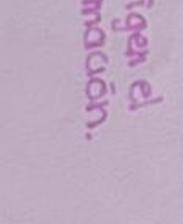
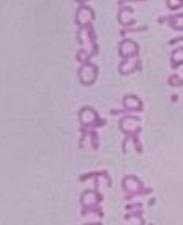
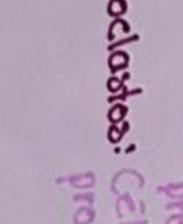
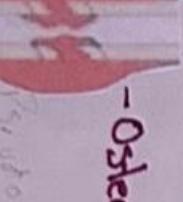
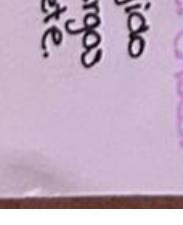
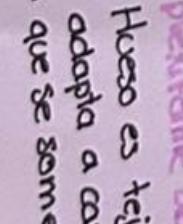
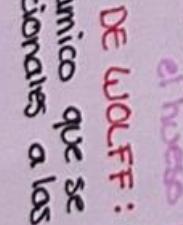
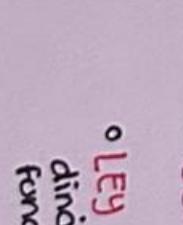
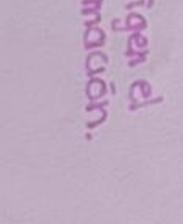
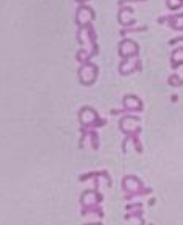
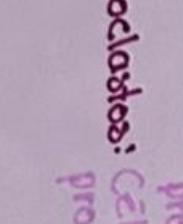
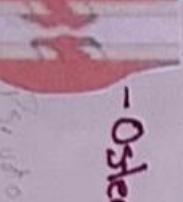
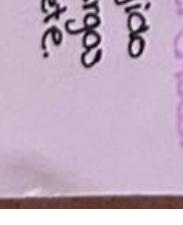
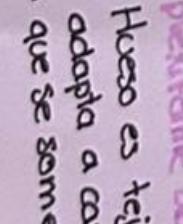
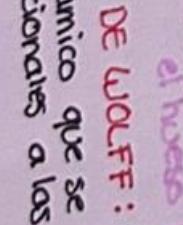
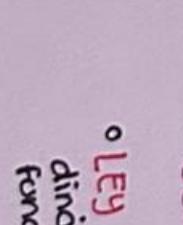
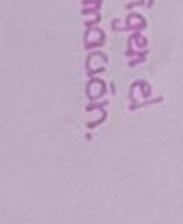
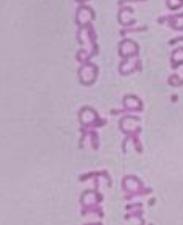
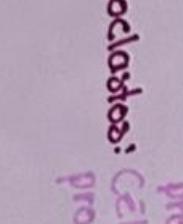
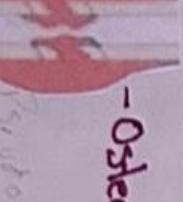
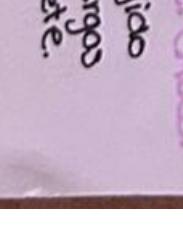
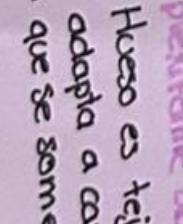
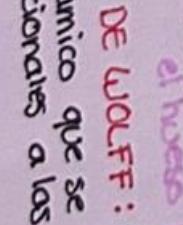
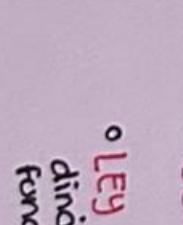
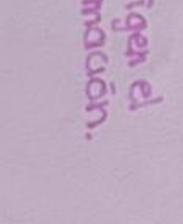
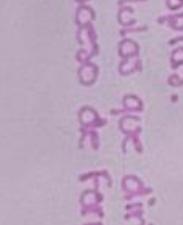
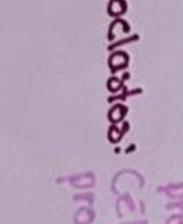
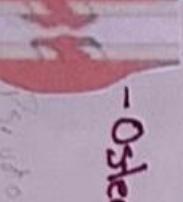
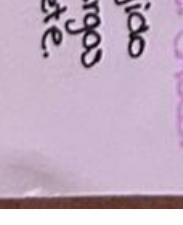
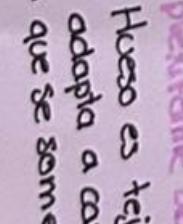
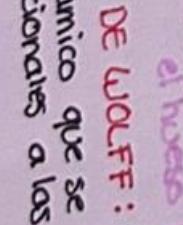
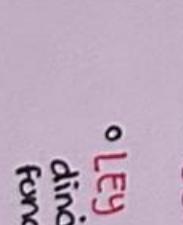
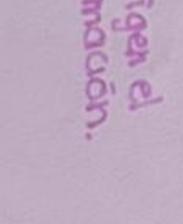
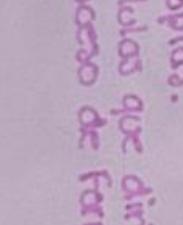
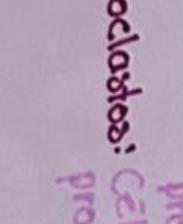
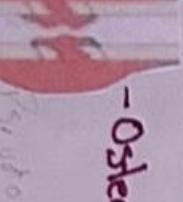
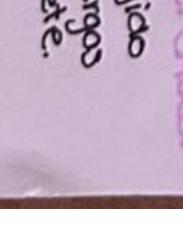
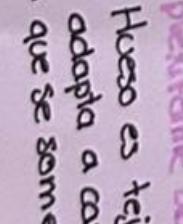
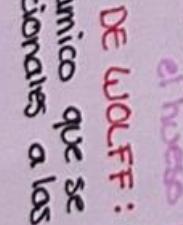
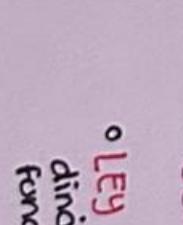
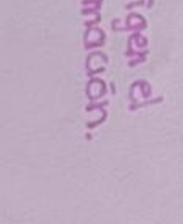
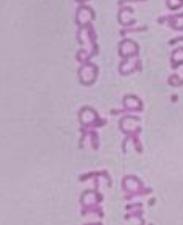
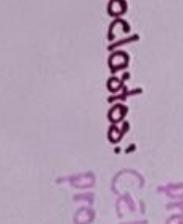
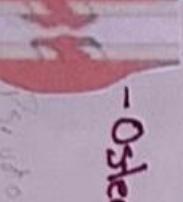
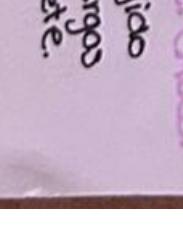
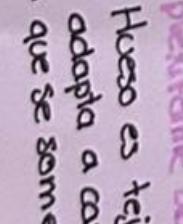
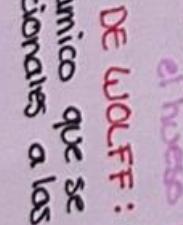
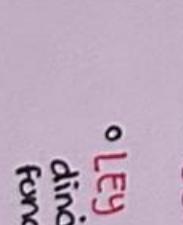
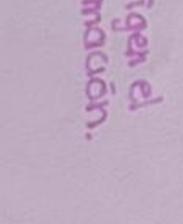
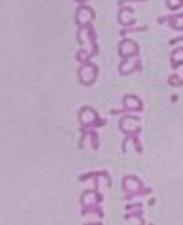
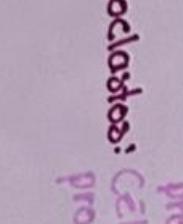
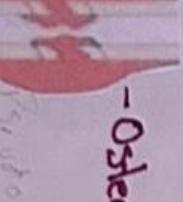
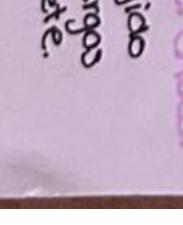
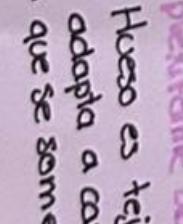
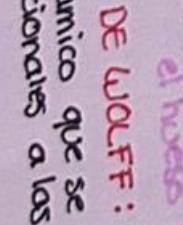
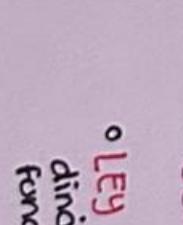
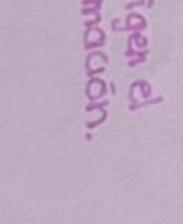
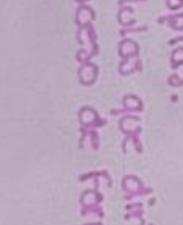
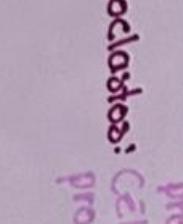
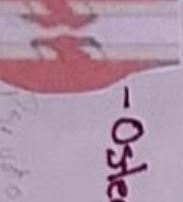
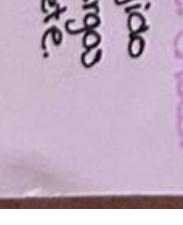
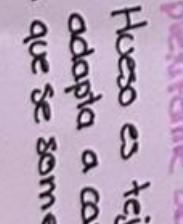
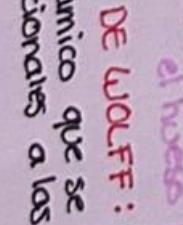
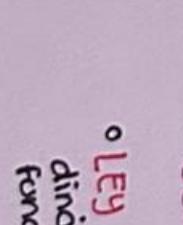
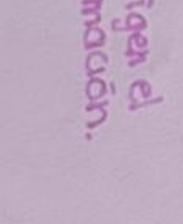
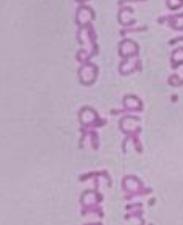
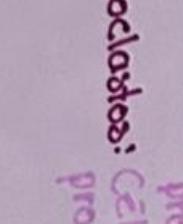
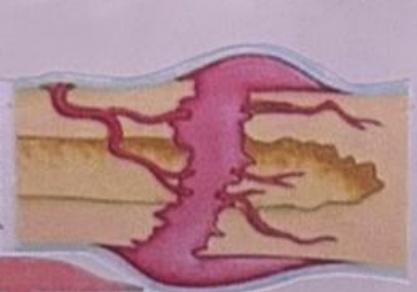
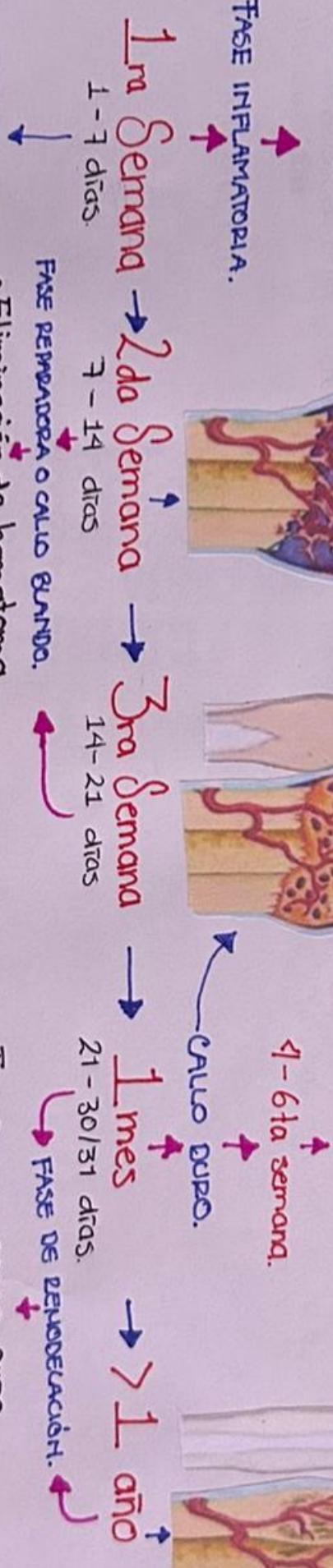
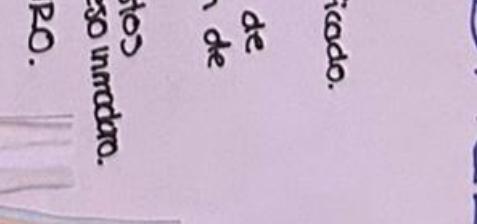
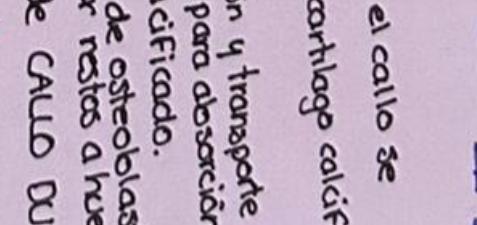
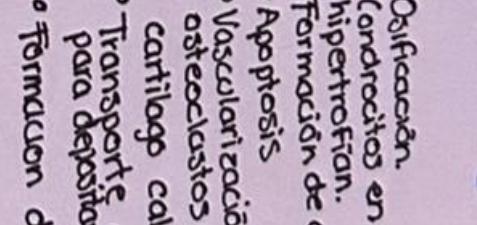
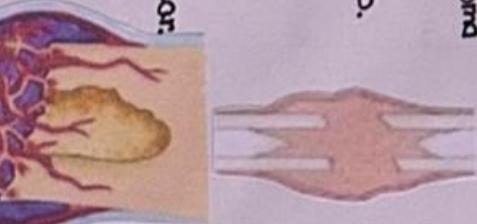
Dr. Alan de Jesús Morales Domínguez.

Comitán de Domínguez, Chiapas a 5 de septiembre 2025.

# FASES DE LA CONSOLIDACIÓN

- Hemorragia y formación de hematoma
- Migación celular.
- Angiogénesis → Collo cartilaginoso.
- Coágulo.
- Liberación de grandes:

  - Reductamiento celular.
  - Afectación de células mesenquimales.
  - Daño a comunicación intercelular.
  - Células adaptativas toman control de consolidación después del proceso de inflamación.



# TRASTORNOS DE CONSOLIDACIÓN ÓSEA

No hay consolidación adecuada y hay un fallo en esta fase.  
No hay unión de huesos correctamente.

Pseudoartrosis.

Fase reparadora o callo blando.

2da Semana



1-2 semanas. → 2-4 semanas. → 4-6 semanas

1-14 días. ↓ 14-28 días

28-42 días. ↓ < 42 días.

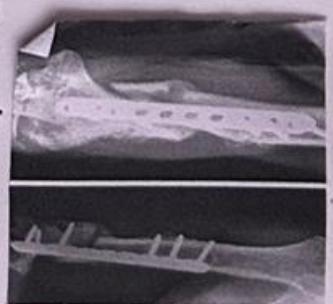
< 2 meses → 9 meses → > 1 año.

Fase callo duro.

Consolidación víosa.

Pseudoartrosis

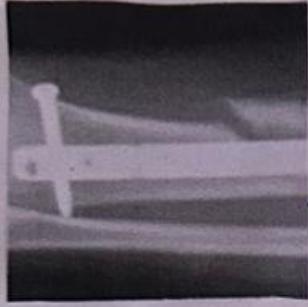
Retraso de consolidación.



Tracción no desarrolla unión ósea completa después del tiempo estimado para el proceso de consolidación.

Hay consolidación de la fractura pero, en posición inadecuada. El hueso no se alinea correctamente mientras está en "reparación".

La consolidación víosa puede tardar hasta poco más del año por el proceso que se lleva.



Consolidación víosa.



