39th IACDE National Conference

Do you know a single piece of membrane can save your tooth?

INTRODUCTION : **Human amniotic Membrane(hAM) is the innermost placental membrane that protects the growing foetus and nourishes it. We aim to present the potential applications of hAM in regenerative endodontics.**

How does hAM Function?

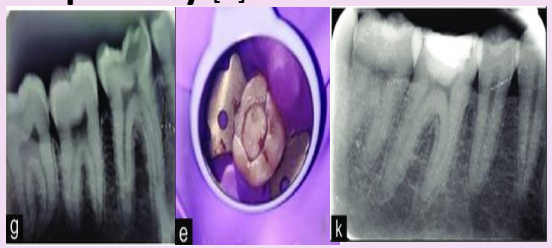
- Thin,Absorbable,Self-Adhering.
- Antibacterial, Anti-inflammatory
- Produces Growth factors.
- Reservoir of Multipotent stem cells
- Active Scaffold
- Biological Barrier(GTR)

Usable forms of hAM:

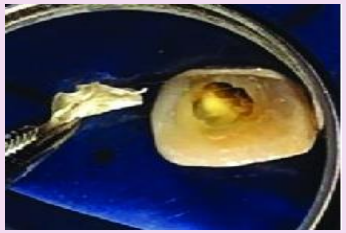
1. Fresh amniotic membrane.
2. Freeze Dried hAM
3. Cryopreserved hAM
4. hAM grafts,scaffolds,particles
5. Amniotic fluid derived products.

POTENTIAL APPLICATIONS OF hAM:

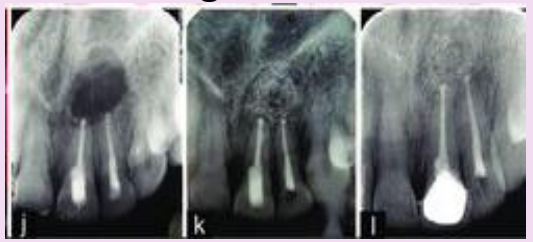
⇨ **Pulpotomy** [8]



⇨ **Revascularisation** [6]



⇨ **Root end surgeries**[8]



⇨ **Long standing cysts**

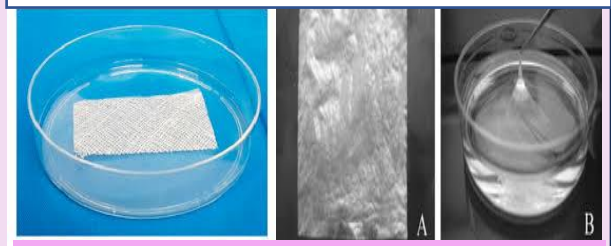
⇨ **Vertical root fractures**

⇨ **Traumatic tooth with immature apex.**

⇨ **hAM +PRF+ hydroxyapatite in periapical surgeries** [1]

Pre-operative	Composite graft of PRF + biogen	Placement of hAM	Post- operative

Freeze dried hAM and its activation



Advantages:

- ✓ Cost effective, easy to use
- ✓ Greater adaptability
- ✓ Less risk of infection
- ✓ Less invasive.
- ✓ Esthetically beneficial

Disadvantages:

-Patient consent

-Some cases still lack 2° and 3° outcomes.

Scan for reference