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An initial study to evaluate the efficacy and benefits of injection of **Plasma Rich Platelets (PRP) + Combined with 2ml Hyaluronic Acid** during Vaginal Repair for Urinary Incontinence

**OUR EXPERIENCE IN PLASMA RICH
PLATELETS INJECTION DURING VAGINAL
REPAIR FOR URETHRAL INTEGRITY
SUPPORT
(IN SAUDI GERMAN HOSPITAL-ASEER, K.S.A)**



OBJECTIVE

The aim of this study was to *evaluate* the outcome of **Plasma Rich Platelets injection + combined with 2ml Hyaluronic Acid** for Urethral integrity support

DESIGN

The investigation
was designed as
an **observational
study**

SETTING

The investigation was undertaken at tertiary referral unit in K.S.A. (Saudi German Hospital, Aseer)

POPULATION

The participants comprised of 84 women complaining of urinary incontinence between April 2020 to February 2021



METHODS

Preoperative evaluation of vaginal wall prolapse as usual.

Anterior wall longitudinal incision, dissection of the vaginal wall from the urethra and bladder .

Identify the fascia, Kelly's sutures 2-3 stitches.

Injection of PRP + combined with 2ml Hyaluronic Acid sub-urethra at the level of mid-urethra to bladder neck (about 2 ml in each side

Cut the excess vaginal wall tissue and suturing.



METHODS

Foley's catheter was inserted.

Vaginal pack was inserted to ensure heameostasis and postoperative analgesia was given mainly non – steroidal anti-inflammatory supp.

Bladder training after 6-8 hours postoperatively; they remove the catheter and check the absence of stress incontinence & any urinary retention.

MAIN OUTCOME

Absence of Incontinence was evaluated objectively.

Operative and postoperative complications were also assessed.

Follow-up of the women after 2 and 12 weeks.

RESULTS

- The mean age of 29 years old for stress incontinence. All were evaluated for follow up in the clinic postoperatively after 2 and 12 weeks.
- The procedure was successful in all cases with NO major complications apart from few cases because of immediate postoperative urine retention which necessitate their staying in the hospital almost one more day of treatment & more bladder training.

CONCLUSIONS

- This procedure is both feasible and effective procedure for achieving good urethral with disappearance of the Incontinence with almost NO major complications.
- A prospective randomized clinical trial with long-term follow up and large number of cases is needed for further evaluation and compare the outcome.

N.B. I've started this study with the use of PRP only, but I've done with repeated some patient with PRP again to maintain the incontinence completely after 6 months.

Limitations

There are some limitations of this study & some of these limitations are given below:

- One of the limitations of this study was that it was based on the observational date, therefore; does not provide any conclusive outcome or evidence. Also, the short term follow up of the results.
- To overcome this limitations, there is a need of carrying out randomized controlled trial for getting conclusive outcome and longer time for evaluation.



Limitations Cont...

- *The other limitation of this study was the **sample size of the participants.***



The sample size selected for this study was not appropriate to gain the conclusive & generalized outcome. Thus, there is a need of carrying out further evidence-based research studies along with the consideration of a large sample size so that the outcomes obtained for the research can be generalized.

Other Information:

DISCLOSURE OF INTEREST

- There was no conflict of interest.

DETAILS OF ETHICAL APPROVAL

- No ethical approval for the procedures as it was simple observational study.

FUNDING

- No funding was taken from any person/organization

SUPPORTING INFORMATION

- Some short videos & photos illustrating the surgical technique & the procedure.

Thank you

