VIETNAM – FRANCE – ASIA PACIFIC CONGRESS OF GYNECOLOGY AND OBSTETRICS (2018)

THE OUTCOMES OF MULTICOMPARTMENT SURGERY IN THE TREATMENT OF TRANSVERSE CERVICAL RING DEFECTS

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1. INTRODUCTION

- 1. Transverse cervical ring defect → Pelvic organ prolapse (POP): (urogenital and anorectal organs) → multicompartment diseases
- 2. Diagnosis: clinic (TAPE) + MRI + CAD → early or late stage
- 3. Treatment (Integral theory) → multicompartment surgery
- Transvaginal and transanal approaches

Objectives:

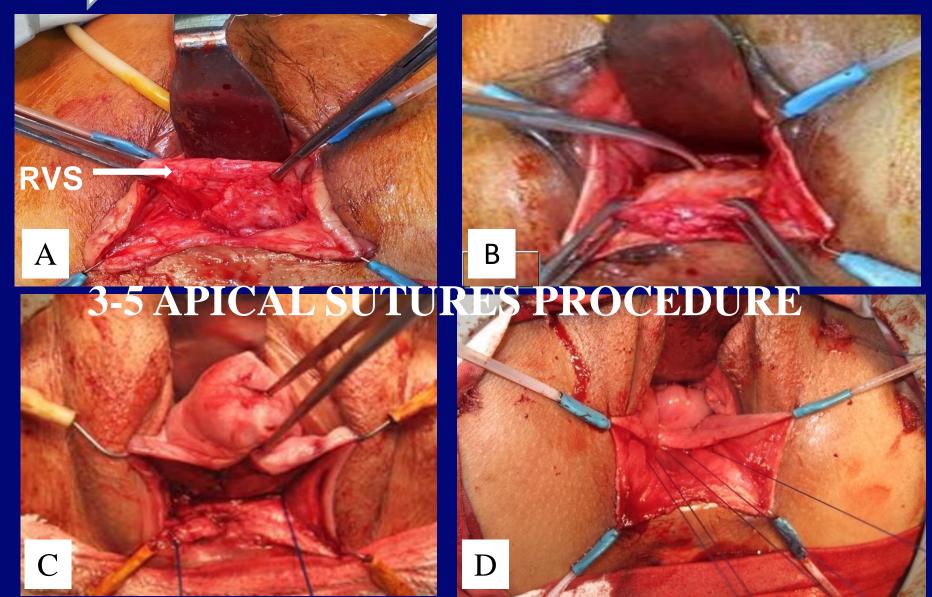
- 1. To determine early and late complications of surgical methods
- 2. To determine the long-term outcome of the improvement in Symptoms of Pelvic organ prolapse and chronic constipation

2. SUBJECTS AND METHODS

1	RESEARCH DESIGN	Case serie report
2	SUBJECTS	Female; Pelvic organ prolapse + Constipation (ODS)
3	LOCATION AND TIMELINE	Trieu An Hospital; 2012 - 2016
4	INCLUSION CRITERIA	Pelvic organ prolapse (Baden- Walker) + Constipation (ROME III)
5	EXCLUSION CRITERIA	Chronic diseases; elderly; constipation caused by medication/others,
6	TREATMENT METHODS	Multicompartment surgery
7	INTRA - POST OPERATION DATA	
8	EVALUATION OF SURGICAL RESULTS	
9	DATA PROCESSING & STATISTICAL ANALYSIS	

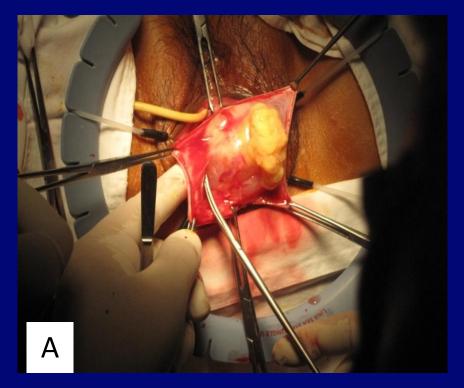
1. TRANSVAGINALAPPROACH





POLYPROPYLENE MESH PROCEDURE

LATER STAGE: HERNIA REPAIR + REPLACE RECTOVAGINAL FASCIA





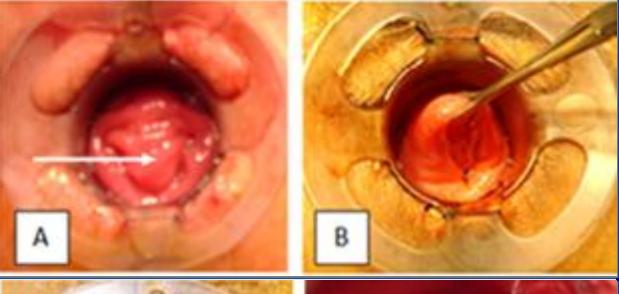


POST VAGINAL WALL MESH (PROLENE SOFT MESH ®)

2. TRANSANAL: ANORECTAL REPAIR

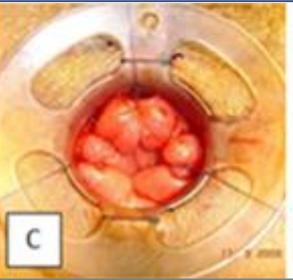


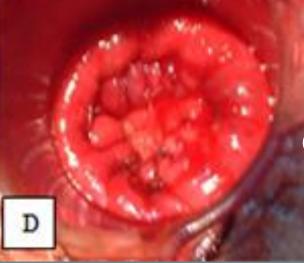
REPAIR HIGH RECTOCELE + INTERNAL MUCORECTAL PROLAPSE



(A) INPUT CAD 33

(B) ANT. RECTOCELE





(C) OBLIGATED SEW OF RECTOCELE(ANT WALL)

(D) MUSCOSAL PLICATION OF POST. RECTAL WALL

3. RESULTS

1. CHARACTERISTICS: n = 94

- AGE: mean 44 + 8,24 (25 89); 82,8% > 40Y
- PAST OBSTETRIC HISTORY: 5,32% 1 parity; 94,68% parity
 ≥ 2 times
- DURATION: mean $6,39 \pm 4,52$ years (1-40)

2. SYMPTOMS:

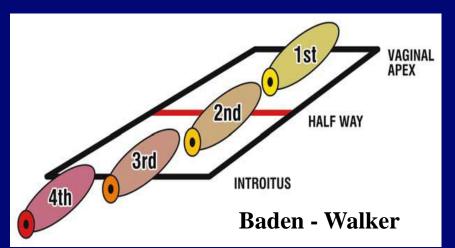
- SYMPTOMS OF POP: 100% feel bulbs/ vaginal prolapse
 (Baden-Walker) 93,6% feel pressure on pelvis/ vagina
- SYMPTOMS OF DEFECATION (CONSTIPATION)
 ROME III + BALLOON EXPULSION TEST (BET) > 50 ml (+)

3. DIAGNOSIS

3.1 ANTERIOR COMPARTMENT PROLAPSE

(GENITOURINARY SYSTEM)

Table 1: Uterine prolapse grade



STAGE	Number of patients	%
0	2	2,2
1	40	42,5
2	37	39,4
3	15 (6 + 9 Vaginal cuff)	15,9
Total	94	100,0



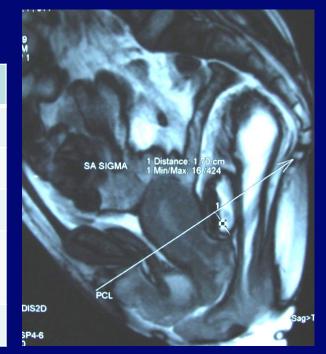


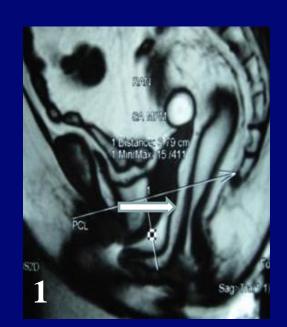
Table 2: Classification of apical vaginal prolapse

CLASSIFICATION	No. of Pt	%
Peritoneocele (1)	13	13,83
Enterocele (2)	9	9,57
Sigmoidocele	3	3,19
Vaginal cuff prolapsus (3)	9	9,57
Total	34/94	36,17

STAGE 1: 14

STAGE 2: 20

MRI DEFECOGRAPHY BEFORE OPERATION





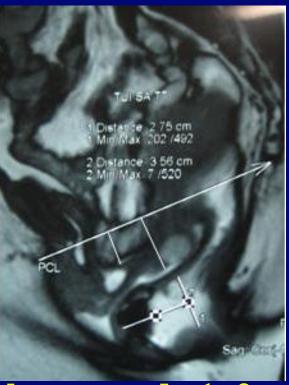


3.2 POST. COMPARTMENT PROLAPSE (ANORECTUM)

Table 3: HIGH RECTOCELE Classification

High rectocele	MRI Defecography (R)	No. of Pt	%
Grade 1	2 cm < R ≤ 3 cm	24	25,5
Grade 2	3 cm < R ≤ 4 cm	59	62,8
Grade 3	4 cm < R	11	11,7
Total		94	100,0





100% cases have internal mucorectal prolapse grade 1, 2 (CAD 33)

• SYMPTOMS OF DEFECATION DISORDERS (CHRONIC CONSTIPATION)

ROME III + BALLOON EXPULSION TEST (BET) > 50 ml (+)

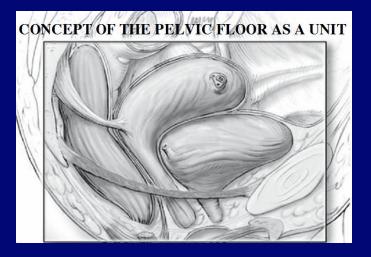
DEFECATION DISORDERS	No. of Pt	%
Obstructed defecation sensation	94	100,0
Incomplete defecation	94	100,0
Tenesmus	85	90,42
Anal pain	94	100,0
Lumpy and hard stools	86	91,49
Defecation < 3 times / week	86	91,49
Need help to empty rectum (hands, medication)	94	100,0

4. DISCUSSION

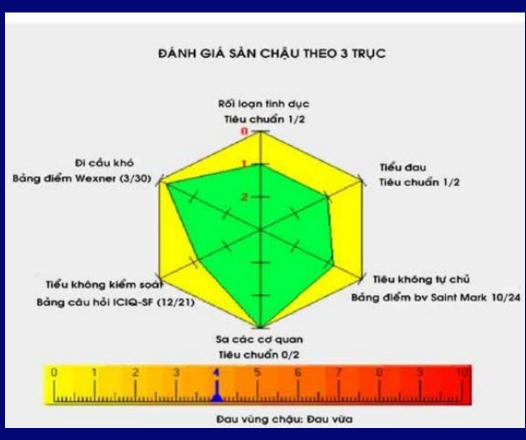
PRINCIPLE OF DIAGNOSIS AND TREATMENT



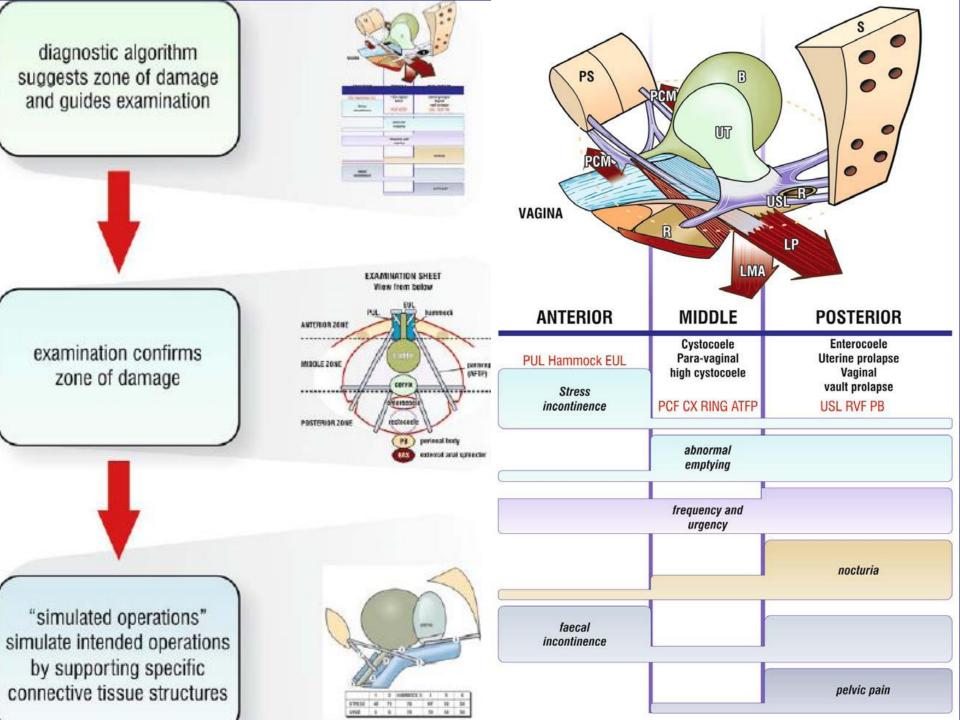
INTEGRAL THEORY



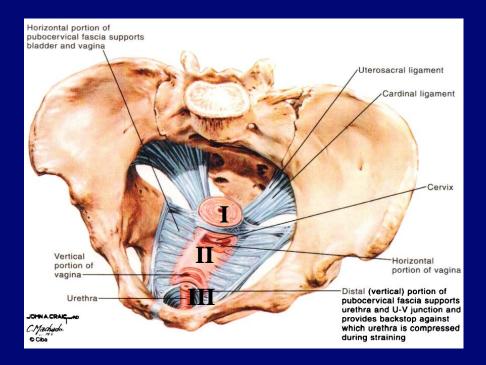
CONCEPT OF THE PELVIC FLOOR AS A UNIT



THREE AXIS PERINEAL EVALUATION - TAPE



MECHANISM OF DAMAGES IN TRANSVERSE CEVICAL RING DEFECT

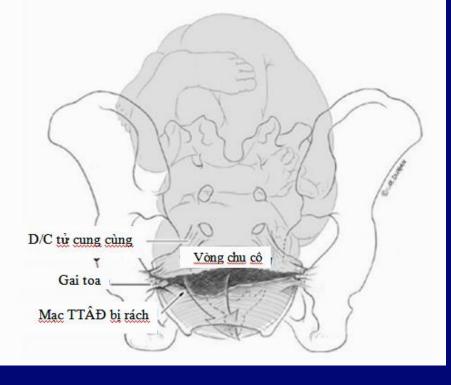




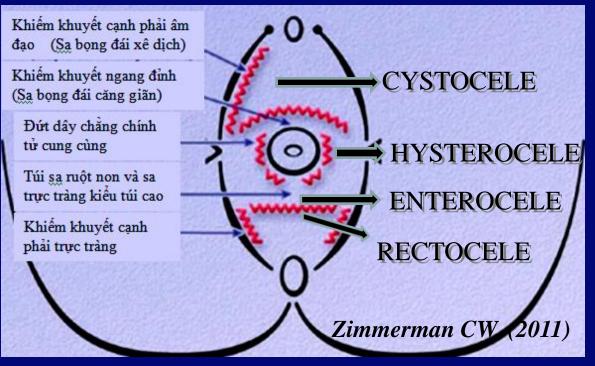


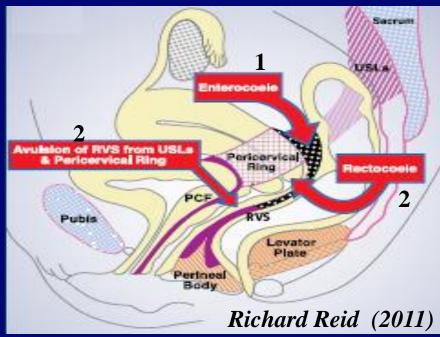
DAMAGE IN DELANCEY I

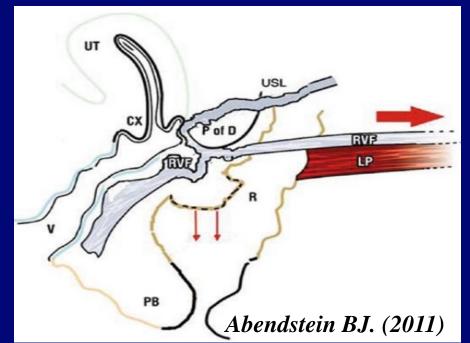




MULTICOMPART MENT INJURIES







SURGICAL RESULTS

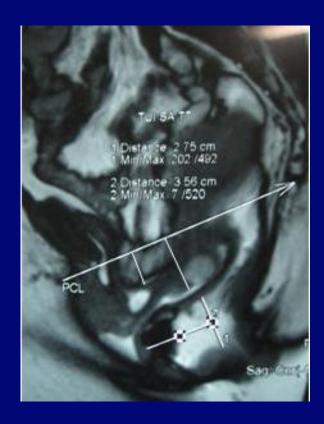
1. COMPLICATIONS

COMPLICATION	Number of Pt	%
Urine retention acquired catheterization	5	5,3
Hematoma in posterior vaginal wall	1	1,1
Surgical wound infection	1	1,1
Mesh erosion/ejection (Prolene mesh ®)	1/52	1,9
Total	8	9,4

2. IMPROVEMENT IN SYMPTOMS OF POP

Symptoms of posterior vaginal wall prolapse	Pre-op	Post operative improvement	%
Vaginal bulbs or propulsion	94	94	100,0
Pressure sensation on pelvis	88	83	94,32

RESULTS IN MRI DEFECOGRAPHY



PRE-OP: 18/6/2014



POST-OP: 23/9/2014

3. IMPROVEMENT IN SYMPTOMS OF DEFECATION DISORDERS

(ROME III)

CONSTIPATION	Pre-op	Post-op improve ment	%
Obstructed defecation sensation	94	88	93,6
Incomplete defecation	94	88	93,6
Tenesmus	85	80	94,1
Anal pain	94	94	100,0
Lumpy and hard stools	86	86	100,0
Defecation < 3 times / week	86	82	95,3
Need help to empty rectum (hands/medication/enema)	94	94	100,0

4. PATIENTS' LEVEL OF SATISFACTION

LEVEL	Patient	%
Good	88	93,6
Moderate	5	15,3
Poor	1	1,1

- GOOD: completely satisfied
- MODERATE: sometimes have difficult defecation + help with laxatives
- POOR: not satisfied, require reoperation

CONCLUSION

- Transverse cervical ring defects are multicompartment (anterior + posterior)
- Diagnosis: Clinic (integral theory -TAPE) + MRI defecography + CAD (intra-operation)
- ➤ Concomittant surgery: repair accurately injured anatomical structures → functional rehabilitation
- Less complications in and post operation
- \triangleright Results: symptoms improvement $\ge 93.6 \%$
- > Research topic is neccesary to continue