World meeting on sexual medicine
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Take home messages
Peyronie’s disease

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MEETING CONTENTS IN PEYRONIE DISEASE

- 1 POSTER SESSION dedicated
- 1 PODIUM SESSION dedicated
- OTHER ABSTRACTS (Basic Science and Surgery Sessions)

SELECTED HOT TOPICS-HIGHLIGHTS

1. Basic Research
2. Diagnosis/Evaluation
3. PD Relationships
4. Medical/Surgical Treatment
Investigate mechanical properties of plaque tissue and mineral content

Human tissue from Peyronie’s plaques

Detection using SEM and EDX (Spectroscopy)

Deposition of Calcium phosphate increase tensile/elastic, making tissues stiffer

Demonstration of Silicon on the plaques (Potential New Therapeutic Approach to detect or prevent)
BASIC SCIENCE

#053 A natural lubricant superficial zone protein enhanced by TGFBeta treatment of cell cultures derived from PD patients Mineralization and mechanical testing of Peyronies disease tissues

Schmid et al. Rush University

- TGFB stimulated collagen/elastin production from tunica cells
- Lubrication is provided by mucin-like glycoprotein (SZP)
- AIM: Potential of cell to synthesize SZP with/without TGFB
- Cell cultures derived from human tunica

- TGFB increase synthesis of lubricating SZP
- SZP may serve as a predictor/marker to detect active TGFB and define plaque subpopulations
Serum T Levels influences wound healing and are decreased over aging

AIM: Evaluate relationship between PD severity and T Levels

106 pat; Group 1 (Serum T <3.5) and Group 2 (Normal levels)

Presence of T deficiency have a relationship with severity affecting penile deformity/plaque size/ED
#306 Antinuclear antibody titres in PD
Shamloul/ Bella/ Zappavigna; University of Ottawa, Canada

- Evaluate any relationship between Antinuclear Antibodies and PD
- 120 pat; Group A (cases), Group B (Healthy controls)
- Titres of ANA, TT, FT and SHBG were analyzed

Authors have not found any significant association between ANA titres and PD. Low T were associated
Only small percentages of PD patients improve over time

AIM: Define of predictors of natural history could be defined

176 patients; Several groups based on time of presentation <6 /7-12 and 13-18 months

Several variables were analyzed

Uniplanar curvature/patient age/ TTP were predictors

In conclusion “Those presenting early and younger were the most likely to improve over time”
Medical/ Surgical Treatment

#056 Relationship of baseline penile curvature deformity severity and symptom bother observed in patients with PD
Lipshultz/ Honig/ Seftel/ Smith/ Tursi/ Kaufman and Burnett , USA

- Multiinstitutional Phase III double-blind/placebo control
- Office-based injection collagenase clostridium histolyticum (832 patients)
- AIM: Relationship between baseline curvature severity & bother
- 64 centers (US and Australia)

Over half of the patients with 30-60º still experienced high levels of bother and distress
Measuring curvature alone does not represent the full impact of the disease/consider psychosexual components
Medical/ Surgical Treatment

Patients with Calcified plaques are less responsive to non-surgical therapies

AIM: Investigate whether stratification of calcification (ultrasound) would serve as a predictor of surgery

792 retrospective patients

Classification: Grade 1 (<0.3cm) Grade 2 (>0.3 cm <1.5 cm) and Grade 3 (>1.5 cm or 2 plaques >1 cm)

Men with calcified plaques are likely to undergo surgery

Grade 3 have an increased likelihood of progression to surgical intervention
Medical/ Surgical Treatment

#179 Internal correction of PD plaque during inflatable penile prosthesis placement: A viable option

Perito P, Gheiler E, Bianco F. Florida, USA

- Describe a new approach to correct penile curvature during IPP placement
- 234 patients with PD and ED
- Using nasal speculum inside the affected corpora / Spread to fracture plaque / Linear incision using 12# blade or Metzenbaum
- They use of all penile curvatures (25°-120°)

- All cases were corrected (<20°)
- Quick and efficacious with minimal/none complications
**Medical/Surgical Treatment**

**#090 Penile lenght and girth restoration in severe PD based on circular and longitudinal grafts**

Kuehhas/ Herwig and Egydio- Austria/ Brasil

- Describe their approach of IPP and PD correction using grafts
- Importance % of PD patients dissatisfaction after IPP
- 105 patients
- IPP plus penile straightening using “Egydio Technique”
- Penile length gain 3.6 cm (2-5 cm)

**Maximum Length and Girth restoration**
- High patients satisfaction
- Length/Girth important to recover self-esteem
“THE FIVE TAKE HOME MESSAGES”

1. The plaque contain Silicon / SZP-TGFB define plaques subtypes
2. Low T is related with PD Severity / Negative results for relationship between ANA and PD
3. Importance of Age/TTP related with natural history as well as Psychosexual profiles in patients counseling
4. Heavy calcified plaques are more likely to progress after surgical intervention
5. New internal correction of PD during IPP placement along with grafting strategies remains surgical options for PD/ED patients