

Evaluation and Management of Ischemic Priapism in Vancouver

Rapoport D, Seth A, Gourlay WA
University of British Columbia
Division of Urology
December, 2004



Objective

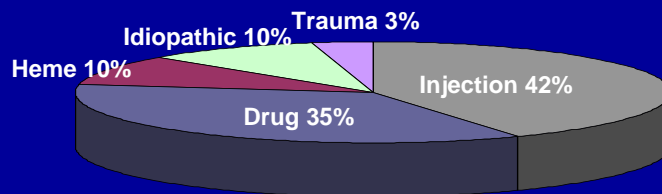
- To review our priapism experience
- To evaluate the role of corporeal blood gas (CBG) measurement
- To identify factors which determine priapism management

Methods

- Retrospective review of 30 patients since 1990 at 2 tertiary hospitals
- Outcomes of interest:
 - Clinical classification of priapism
 - Comparison to CBG
 - Duration
 - Treatment

Results

- Mean age 44 yrs (range 12 – 69 yrs)
- 83% ER, 17% In-Patient
- 34 episodes: 31 ischemic
 - Intracavernosal injec.
 - Drug (Anti-psychotic, Cocaine)
 - Hematologic (Leukemia, Sickle-cell)
 - Idiopathic
- 3 non-ischemic (Trauma, Idiopathic)



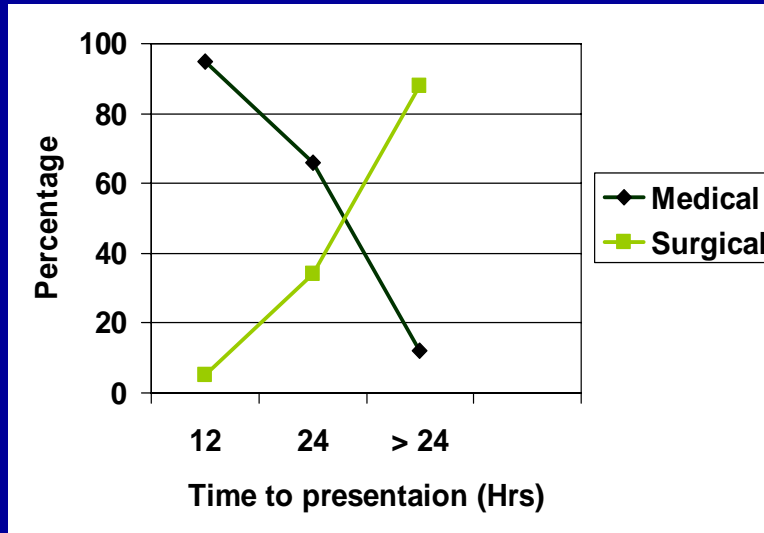
Corporeal Blood Gas

Duration	pH	pO2	pCO2	Management
120 hr	6.9	18	99	Surgical
60 hr	7.6	97	19	Surgical
6 hr	6.9	23	121	Medical
8 hr	6.7	15	135	Medical
10 hr	7.4	64	41	Medical
10 hr	6.8	18	104	Medical

Management

- Mean duration of priapism 19 hrs (3.5 – 120 hrs)
- All initially managed medically
 - 71 % required no further treatment
 - Duration 9 hrs (3-30 hrs)
- 29% required surgery
 - Duration 48 hrs (4 -120 hrs)

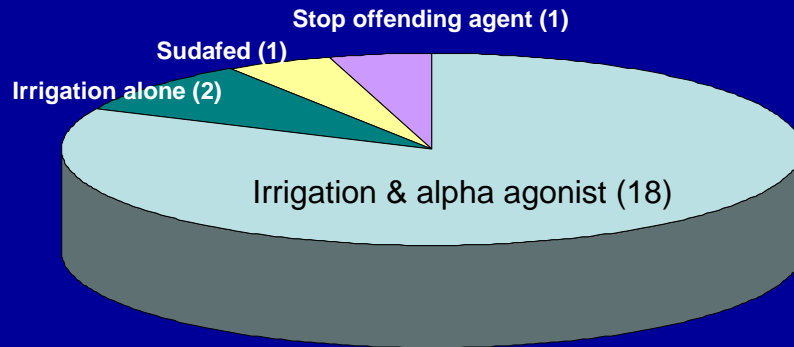
Time to Presentation



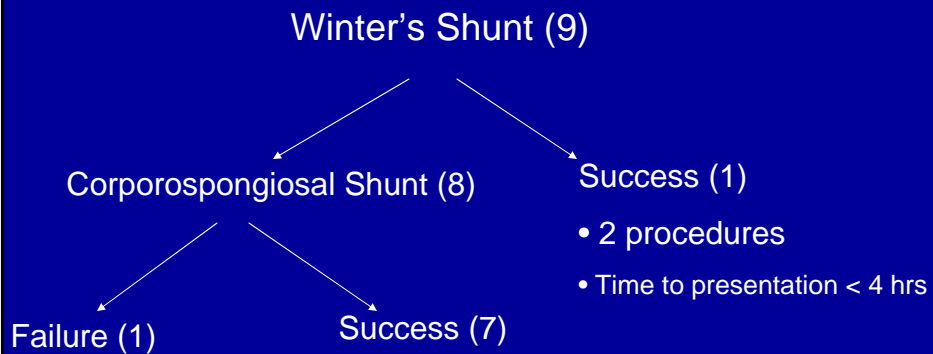
Surgical vs. Medical

Group	Medical (n = 22)	Surgical (n = 9)
Mean Age	43 yrs	41 yrs
Etiology	injection (n = 12) Drug (n = 6) Heme (n = 2) Idiopathic (n = 2)	Drug (n = 5) Heme (n = 1) Injection (n = 1) Idiopathic (n = 1)
Time to presentation (hrs)	9 (3 – 30)	48 (4 – 120)

Medical Management (71%)



Surgical Management (29%)



Conclusions

- 91% priapism ischemic
 - 77% due to injections or drugs
- CBG performed in few cases
 - Highly ischemic still medically treated
- 71% managed medically
 - present earlier (9 hrs)
- 29% managed surgically
 - longer time to presentation (>24hrs)
 - 89% require corporospongiosal shunt