

DIAGNOSIS AND TREATMENT OF CAVERNOUS LEAK (AND OTHER PATHOLOGIES) - A NEW HORIZON

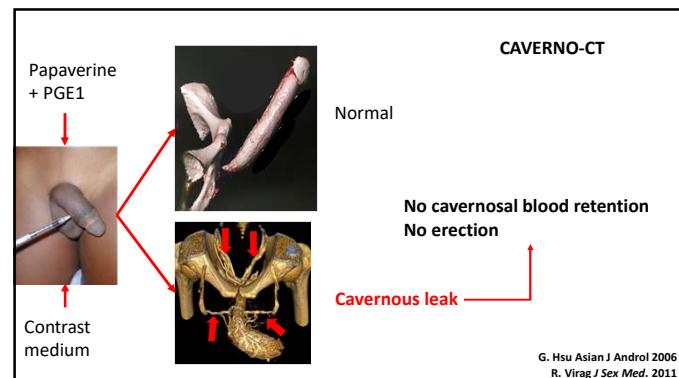
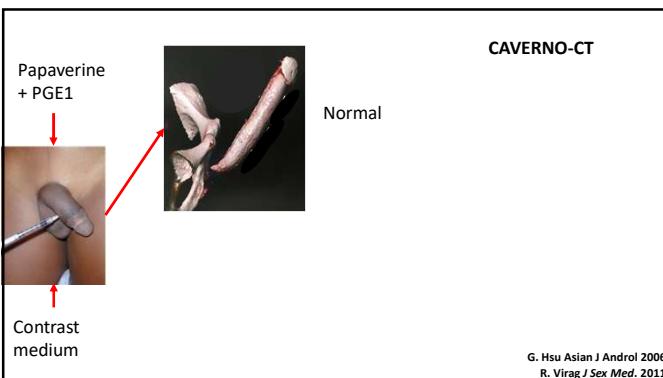
Eric ALLAIRE ^{a,b}

Hélène SUSSMAN ^b, Pascal HAUET ^b, Ronald VIRAG^b

^a: Clinique Geoffroy Saint Hilaire, Vascular Surgery Unit, 59 rue Geoffroy Saint-Hilaire 75005 Paris, France
^b: CETI, 8 rue de Duras, 75008 Paris, France
www.medisexe.com
www.erectionvascular.com



The author has no conflict of interest disclosure



Symptoms of erectile dysfunction in cavernous leak

	YES	NO
No or weak morning erections		
Resistant to medical treatments (do not stop leakage)		
Erections lost when changing position		
Finger pressure around penis helps erections		
Erections better in Valsalva maneuver		
Since adolescence / or after normal erection life		
Ejaculation with no erection		
More than 6 months, constant		
Worsens		

Penis venous leakage, 2nd most frequent vascular disease ?

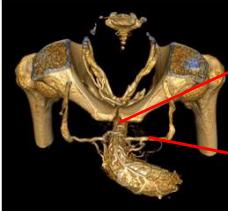
- Under 25: 1-2%
- Half PDE5-I resistance due to cavernous leak (30-40%)
- USA: 4.4 millions
- Exclusion from life
- 1/4 suicidal ideas



McMahon CN BMJ 2006;332:589-92
 ZhuYC, Urology 2010,
 Wespes Eur Urol 2005

Diagnosis: penile duplex sonography with pharmacologic stimulation

Vein leakage



Deep Dorsal Vein

Superficial Vein

Sussman, Allaire, Virag J Mal Vasc 2020

VEITH SYMPOSIUM

Surgery

- Inefficient (North American and European Urologic Associations): implant

VEITH SYMPOSIUM

Surgery

- Inefficient (North American and European Urologic Associations): implant
- Pre-operative work-up: duplex sonography, caverno-CT, penile EMG (diabetes)
- Open microsurgery, embolisation
- Staged procedures
- Post-operative haemodynamic control



Allaire et al. EJVES 2020

VEITH SYMPOSIUM

Open surgery



Embolisation



VEITH SYMPOSIUM

3 month duplex sonography results in 45 consecutive patients

	BEFORE SURGERY	AFTER SURGERY	DELTA	Student t Test
EHS	2.02 +/- 0.65	3.15 +/- 0.76	1.12 +/- 0.71	<0.0001
DDVV (cm/sec.)	13.53 +/- 12.66	0.97 +/- 3.63	-	<0.0001
EDV (cm/sec.)	13.00 +/- 9.93	10.78 +/- 7.05	-	NS
Venous Score	4.68 +/- 1.73	2.0 +/- 1.6	-	<0.0001

14 month clinical results

	BEFORE SURGERY	AFTER SURGERY	Student t Test
EHS	2.02 +/- 0.65	3.40 +/- 0.59	P<0.0001
Possible penetration (EHS)	9.9 %	81.8 %	

Allaire, EJVES 2020

VEITH SYMPOSIUM

Conclusion

- Cavernous leakage second most frequent vascular disease?
- Open surgery combined to embolisation: results to be expanded
- Surgery changes life – saves lives
- Vascular team-work with urologists

VEITH SYMPOSIUM

Franck, thank you for pointing to this New horizon



VEITH SYMPOSIUM