

"Endometrial remodelling and regeneration in reproductive disorders satellite symposium 2009"

Pasquale FLORIO, PhD, MD

The clinical soundness of basic research on activin A in endometriosis and endometrial cancer



Dpt Pediatrics, Obstetrics & Reprod. Med., Section of Obstetrics and Gynecology University of Siena, Siena, Italy











































































iumor markers and polypeptides	 Diagnostic accuracy of serum CA-125>/= 20 U/ml in diagnosin patients with endometriosis 					
A) CA-125, CA-13-9 B) SICAM-1 (soluble forms of the intercellular-adhesion molecule-1)		No. of patients	Sensitivity, %	Specificity %		
C) Glycodelin-A (PP 14)	Collacuri et al. [130]	28	44	90		
	Fedele et al. [11]	154	85	100		
mmunological markers	Fisk and Tan [30]	48	43	04		
A) Cytokines: IL-6, TNF	Gurgan et al. [31]	38	0	100		
B) Autoantibodies	Homstein et al. [127]	123	16	91		
(1) Antiendometrial	Ismail et al. [133]	30	50	38		
(2) Autoantibodies to markers of oxidative stress	Kruitwagen et al. [32]	74	20	82		
	Lanzone et al. [134]	119	53	86		
enetic markers	Medl et al. [132]	368	33	91		
arly growth response (EGR)-1 gene	Molo et al. [126]	35	100	93		
450 aromatase	Moloney et al. [128]	60	34	100		
lacental Protein 14 (PP14)	Moretuzzo et al. [7]	40	20	90		
	Muscatello et al. [131]	119	51	86		
Issue markers	O'Shaughnessy et al. [129]	100	27	100		
A) Aromatase P 450	Ozaksit et al. [135]	86	80	90		
B) Cylokeratins	Palton et al. [125]	113	13	93		
.) normane receptors	Pittaway and Fayez [6]	385	17	93		
- large range of variability						











	Sensitivity, sp	cificity, likeliho	od ratios (I.R.) ar	id area under the	песеіна пра
	characteristic (ROC) cu	rve for serum I	ollistatis and C	A-125 in the di	agnosis of ov
4000	endometroma				
Ē 3000, 8 8 8 8		Endoersetzioma ys. ne ovariam cyst		Endometrioma va. other benign evanan cysts	
2000		Follistation	CA-125	Follistatin	CA-125
	Best cutoff point	1025 pg wil	32.03	1433 pg ml	42 U I
00	Sensitivity (%)	100	52	92	44
		(99.100)	(38-65)	(85-99)	(31-58)
0 10 20 30 50 100 250	Specificity (%)	96	96	92	90
CA-125 (U/I)		(89-100)	(89-100)	(83-99)	(82-98)
	LR of positive test ⁽⁴⁾	25	14	12	5
detected 48/52 cases of endometrioma		(4-184)	(2-97)	(5-31)	(2-11)
tivity) with the cutoff 1433 pg/ml, which	LR of negative test ^(b)	0.00	0.50	0.08	0.62
s to 96% specificity.		(0.00-0.14)	(0.37-0.67)	(0.03-0.21)	(0.48-0.50)
CA-125 detected only 44% of the	Area under ROC curve	0.993	0.681	0.980	0.697
mas with 90% specificity.		(0.978-1.000)	(0.565-0.797)	(0.960-1.000)	(0.596-0.798























































