



Evoluzione delle lesioni L-SIL / CIN1

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Limits of the studies on CIN1

cytology



Cyto-histological correlation

histology



Bioptic "therapy"



grading and extension of colposcopic lesion

Multiple biopsies are performed to avoid underdiagnosis :
increase in "bioptic therapy"

Studies about natural history of CIN1:

Reliability of cytology → reliability of colposcopy → satisfactory colposcopy or not
where perform biopsy, and how many biopsies to perform,



Reliability of histology



A

39y, PT: 3y persitent L-SIL
Unsatisfactory colposcopy

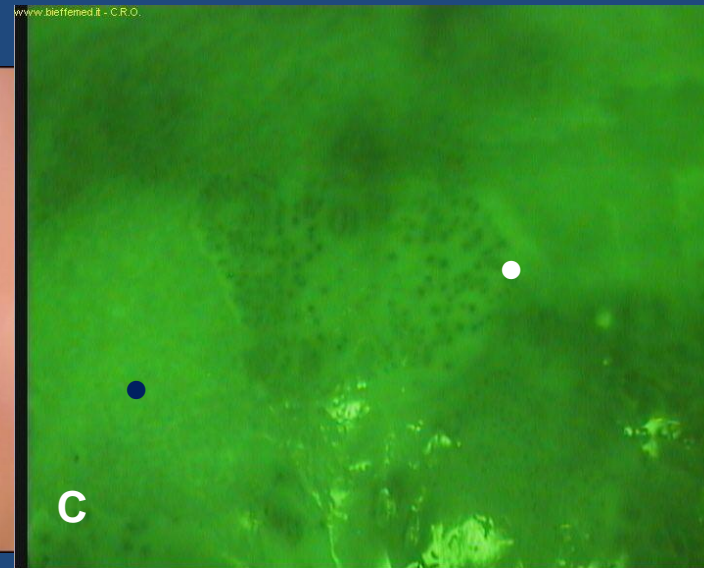
Cone biopsy:

CIN1 + ADCA pT1A1



B

- biopsy: CIN1
- biopsy CIN2



C

- biopsy : CIN1
- biopsy : CIN3

PROGRESSION OF CIN1

Author	N°	CIN3+
Pretorius, AJOG 2006	2490	1.9%
HR-HPV+		2.3%
HR-HPV-		0.4%
>30y		2.7%

Women with persistent HRHPV and negative cytology DON'T increase their risk of CIN3+ with increase in length of follow-up

	N°	CIN2+	
Bansal,	680: 6 mo	45, 6,6 %	
Anticancer Res 2008	513 : 12 mo	+ 19, 3.7 %	(cumulative: 10.3 %)
	251, 6 mo -	9, 3.6 %	
	262, 6 mo +	10, 3.8 %	

PROGRESSION OF CIN1 and p16 – ki 67 expression

Charoonwatane, APJCP 2019	CIN1 → CIN3	7/108	6.4 %
	CIN1 p16+ →	4/24,	16.7 %
	CIN1 p16- →	3/84	3.6 %

PROGRESSION OF CIN1

	CIN1	Regression 4y	persistence 4y	CIN3 4y
Bruno, 2021 Inf Dis Ob Gyn	475	426 (89.7%)	42 (8.8%)	7 (1.5%)

7 CIN3, among 61 women with persistence at 24 mo (7/61, 11,5%)

Regression:	1y	46,3%	Progression:	1y	0
(Cumulative)	2y	80.8%		2y	4
	3y	85,1%		3y	3
	4y	89,7%		4y	0

PROGRESSION OF CIN1 and 5y follow-up

Author	N°	CIN2+	CIN3	Cancer
Ciavattini, BMJ Open, 2018	434	32 7.4 %	4 0.9 %	0
at inclusion:				
L-SIL	398	19 4.5 %		
HSIL	36	13 33.3 %		
colpo G1	398	25 6.3 %		
colpo G2	36	7 19.4 %		
no-smokers	317	17 5.4 %		
smokers	117	15 12.8 %		

5 y regression: 91.2 %

5 y persistence: 1.4 %

5y progression: 7.4 % (cumulative)

Take home messages

- CIN1 mostly regress, progress to CIN3 lesion in less than 3 % of case
- Progress to CIN3 is restricted to persistent lesions
- Follow up of CIN1 is preferable (Guidelines, Recommendation, Protocols)
- 24 mo follow-up is indicated after reliable diagnostic process and reliable follow-up
- Long term follow-up (up to 4-.5 y) of CIN1 may be safe if:
 - satisfactory colposcopy / G1 colposcopic picture
 - L-SIL at inclusion
 - NON smokers women / immunocompetent women
- Treatment of CIN1 if:
 - unsatisfactory colposcopy
 - persistent disease at 24 mo at least
 - histology-colposcopic inconsistency
- No EBM on biomarkers (p16, Ki67, metilation) to manage women with CIN1



Thank for your attention !