

# ThinPrep<sup>®</sup>-morfologie



# ThinPrep<sup>®</sup>-morphologie

Normale cytologie



# Training CT en patholoog

- Microscopische sessies
- Evaluatiemodulen
- Modulen waarin de bekwaamheid geëvalueerd wordt



# ThinPrep<sup>®</sup>-proces



1. DISPERSIE



2. CELVERZAMELING

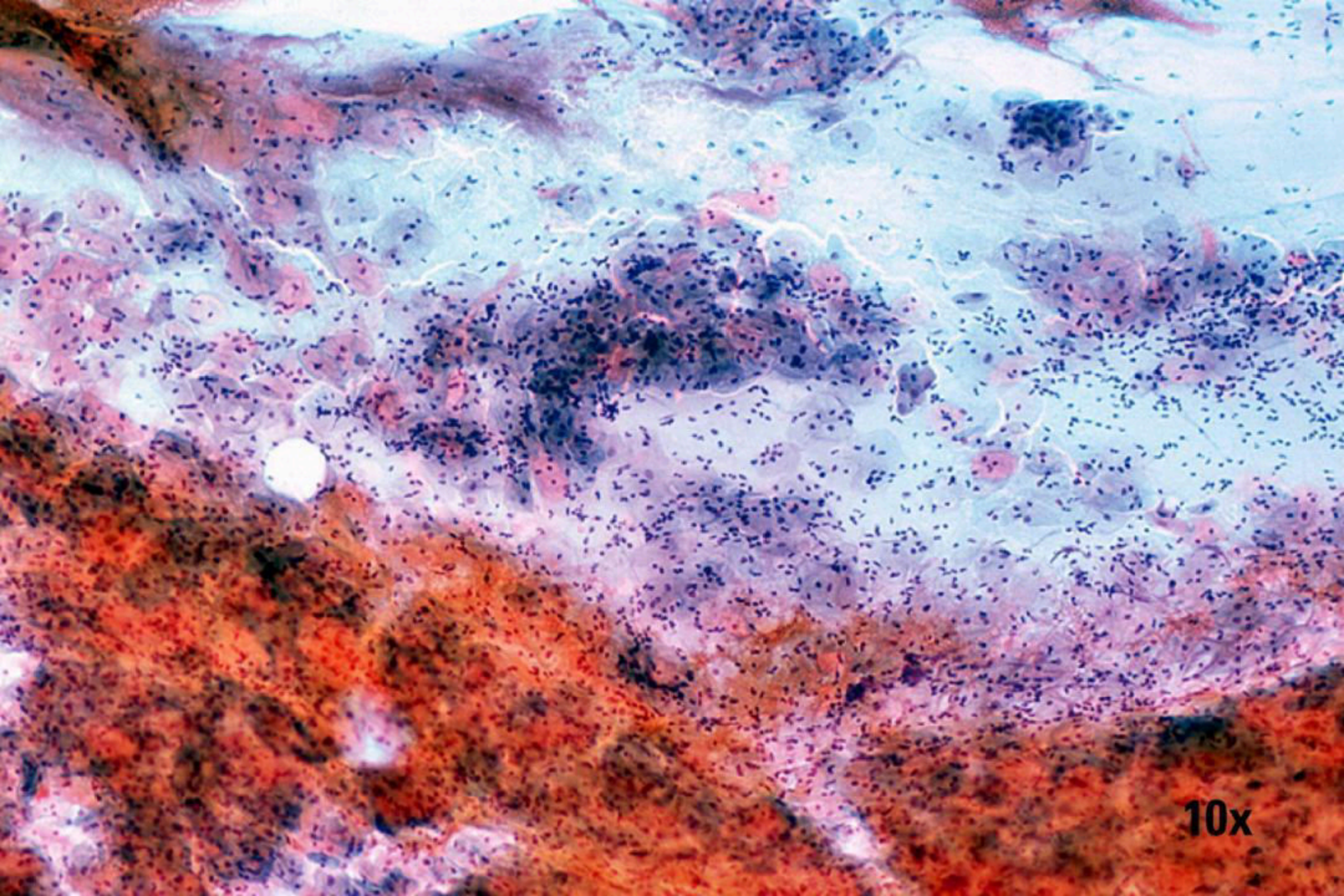


3. CELTRANSFER



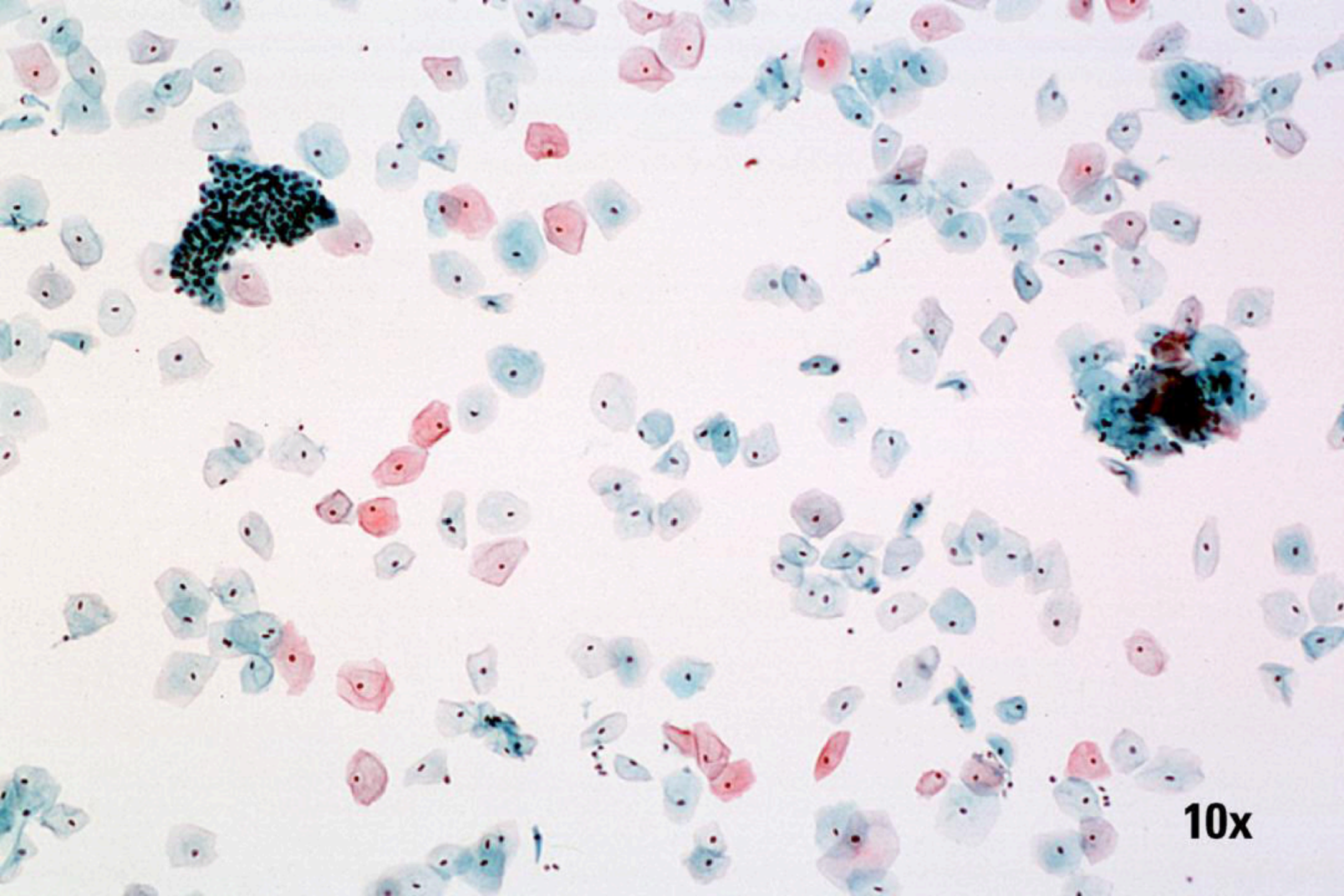






10x





10x



# ThinPrep<sup>®</sup>-kenmerken

- In vloeistof fixatie
- Celgrootte
- Uitstrijkpatroon
- Achtergrond van het specimen
- Overeenkomsten > verschillen

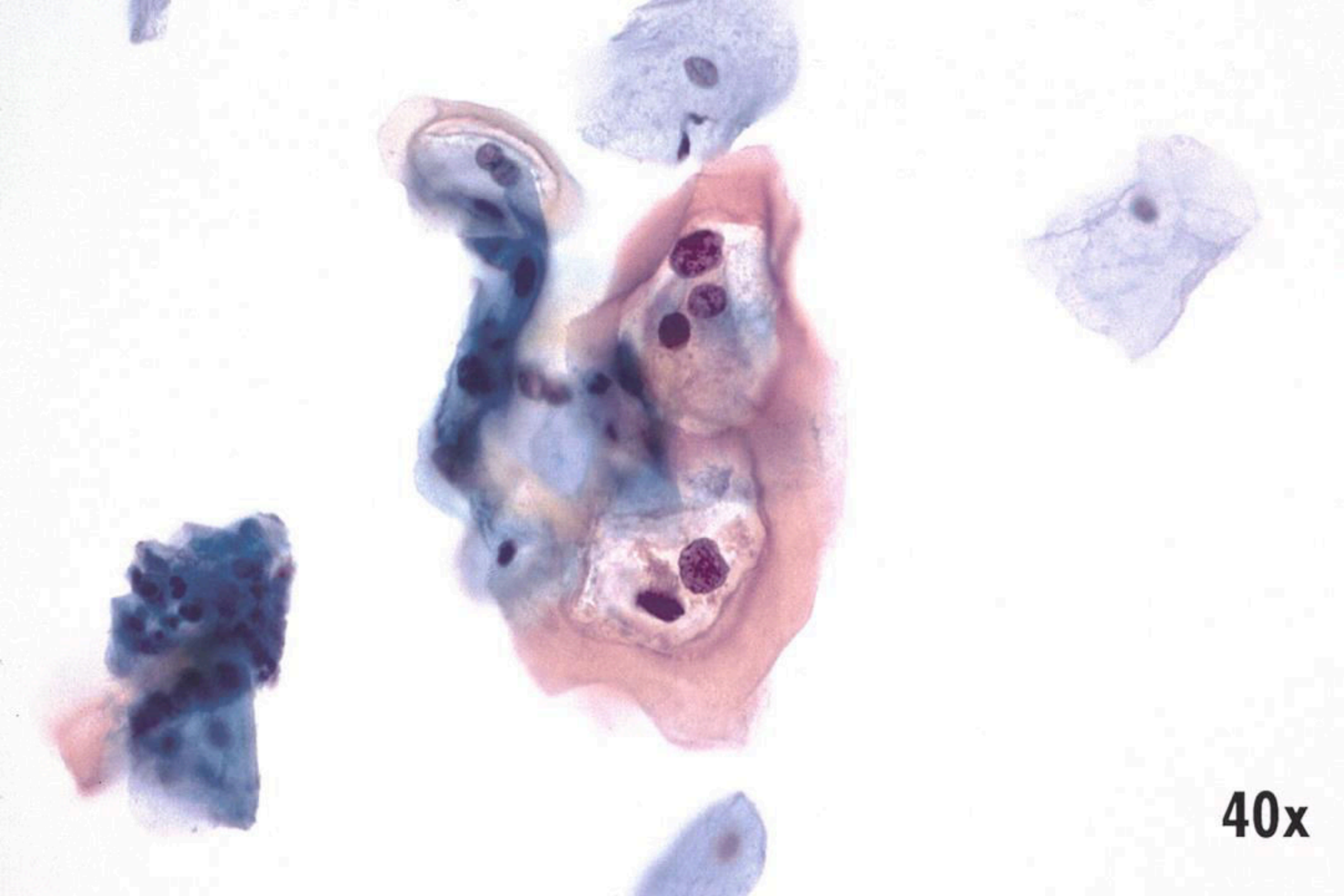


# ThinPrep<sup>®</sup>-kenmerken

## In vloeistof fixatie

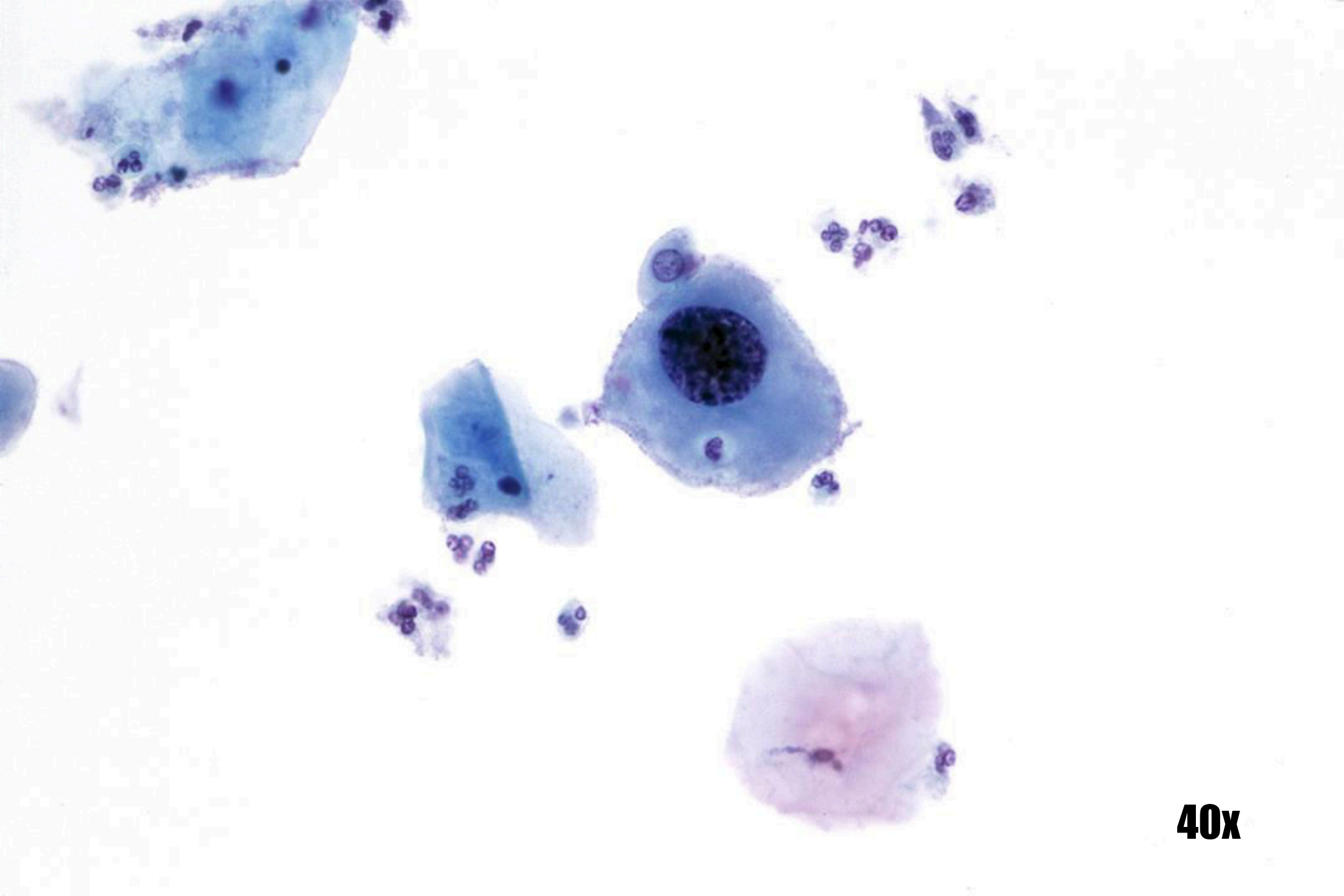
- Betere cytoplasmatische details
- Betere kerndetails
- Variabiliteit in kleuring van de kern



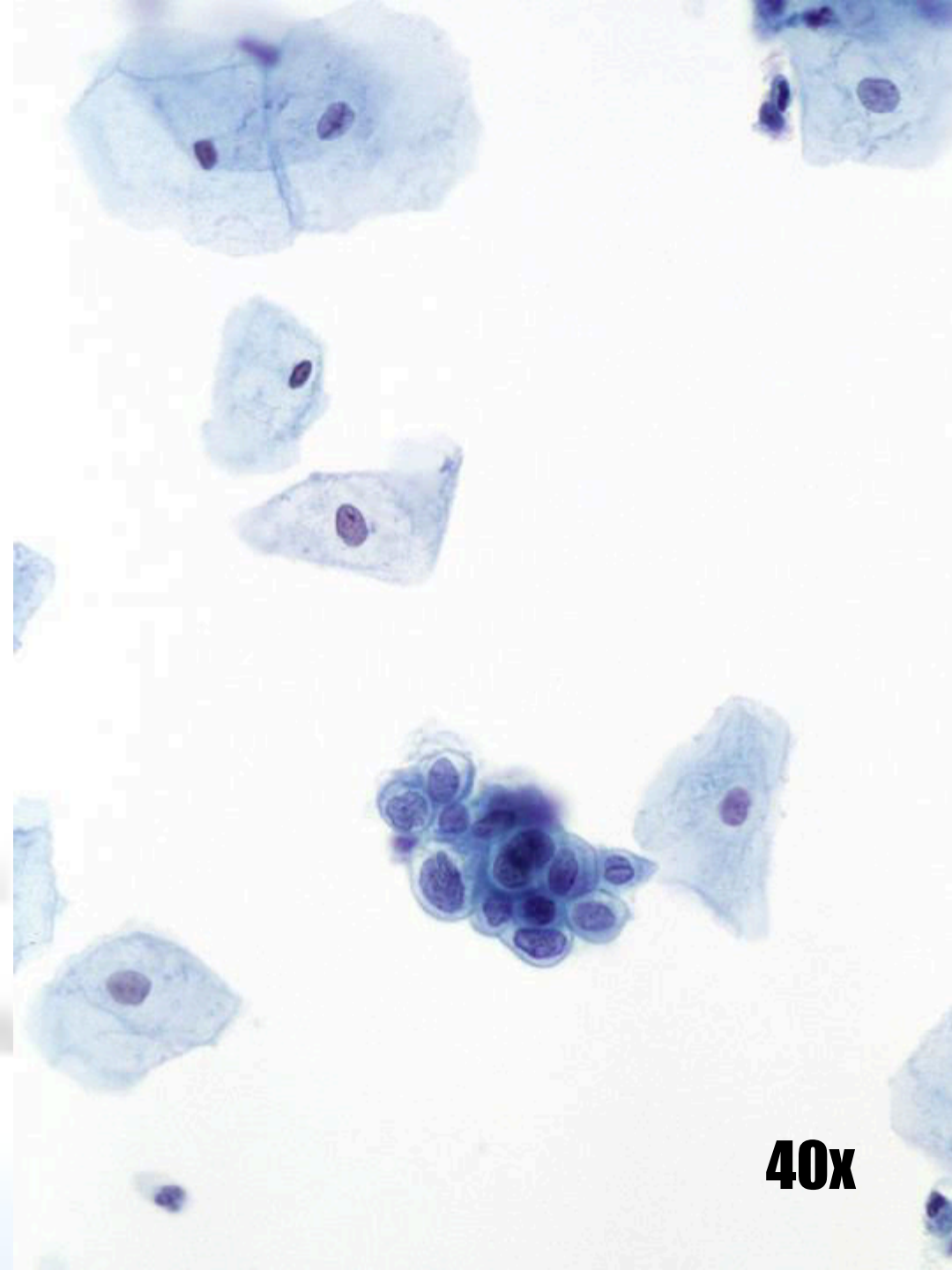


40x

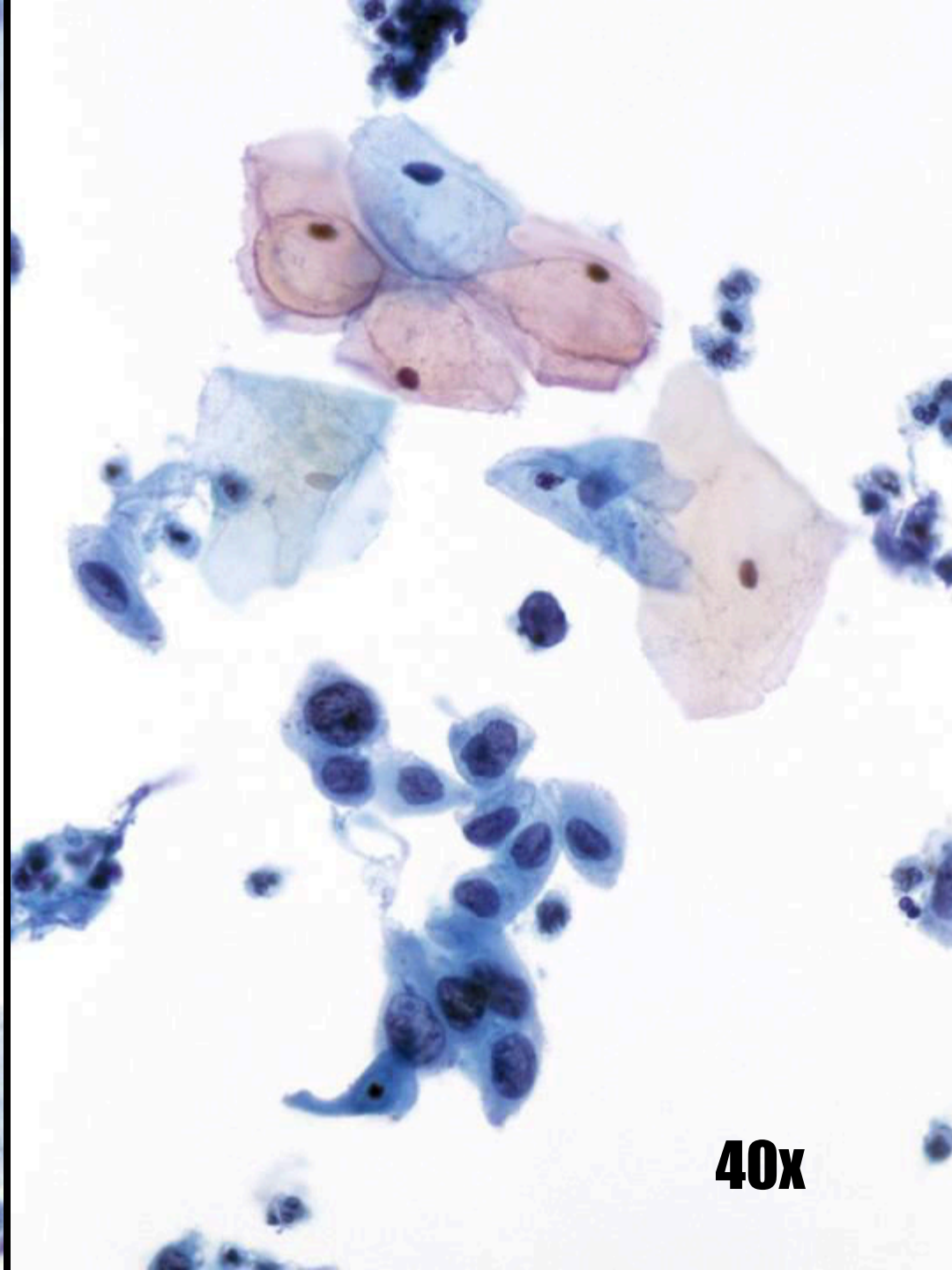




**40x**



**40x**



**40x**

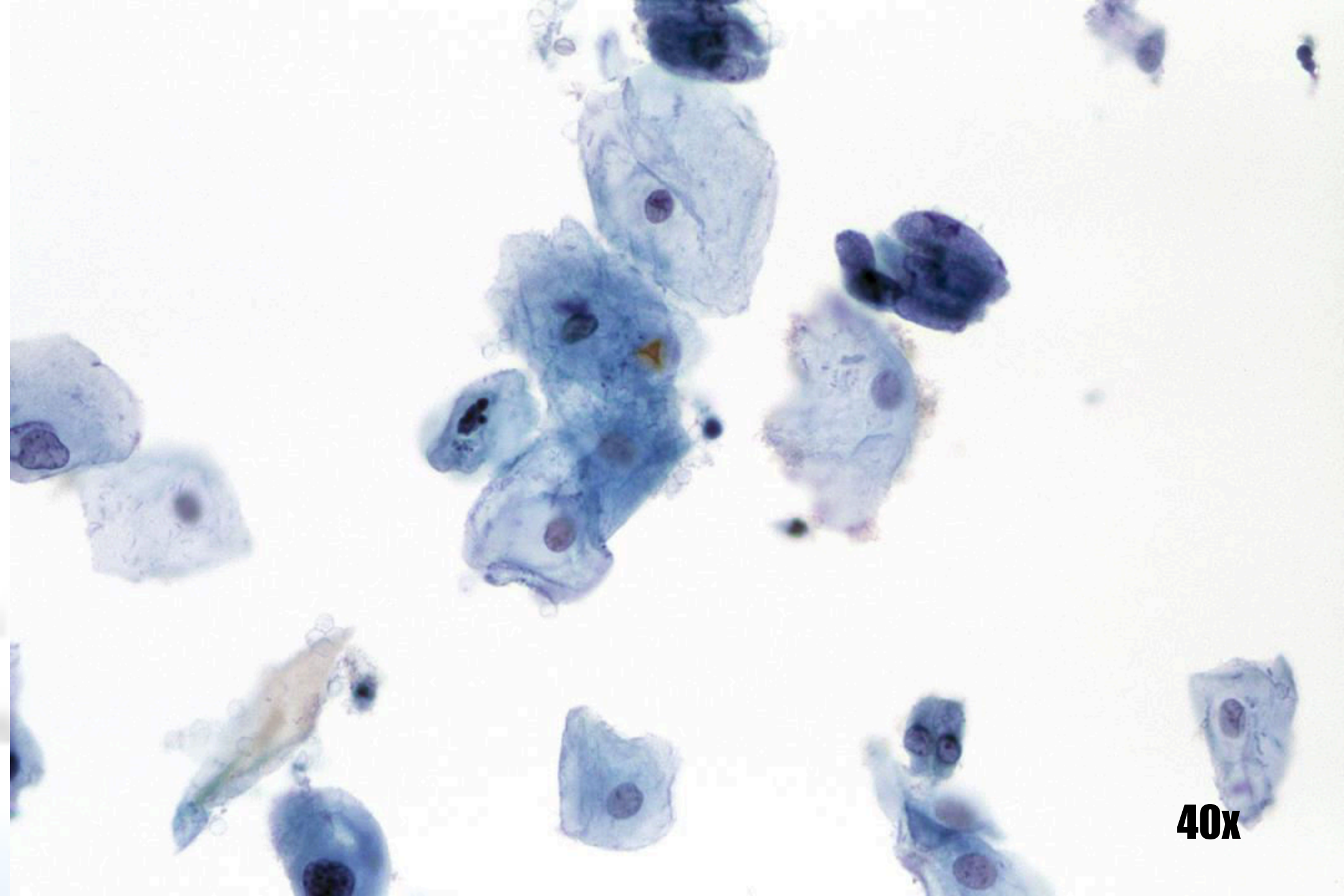
# ThinPrep<sup>®</sup>-kenmerken

## Celgrootte

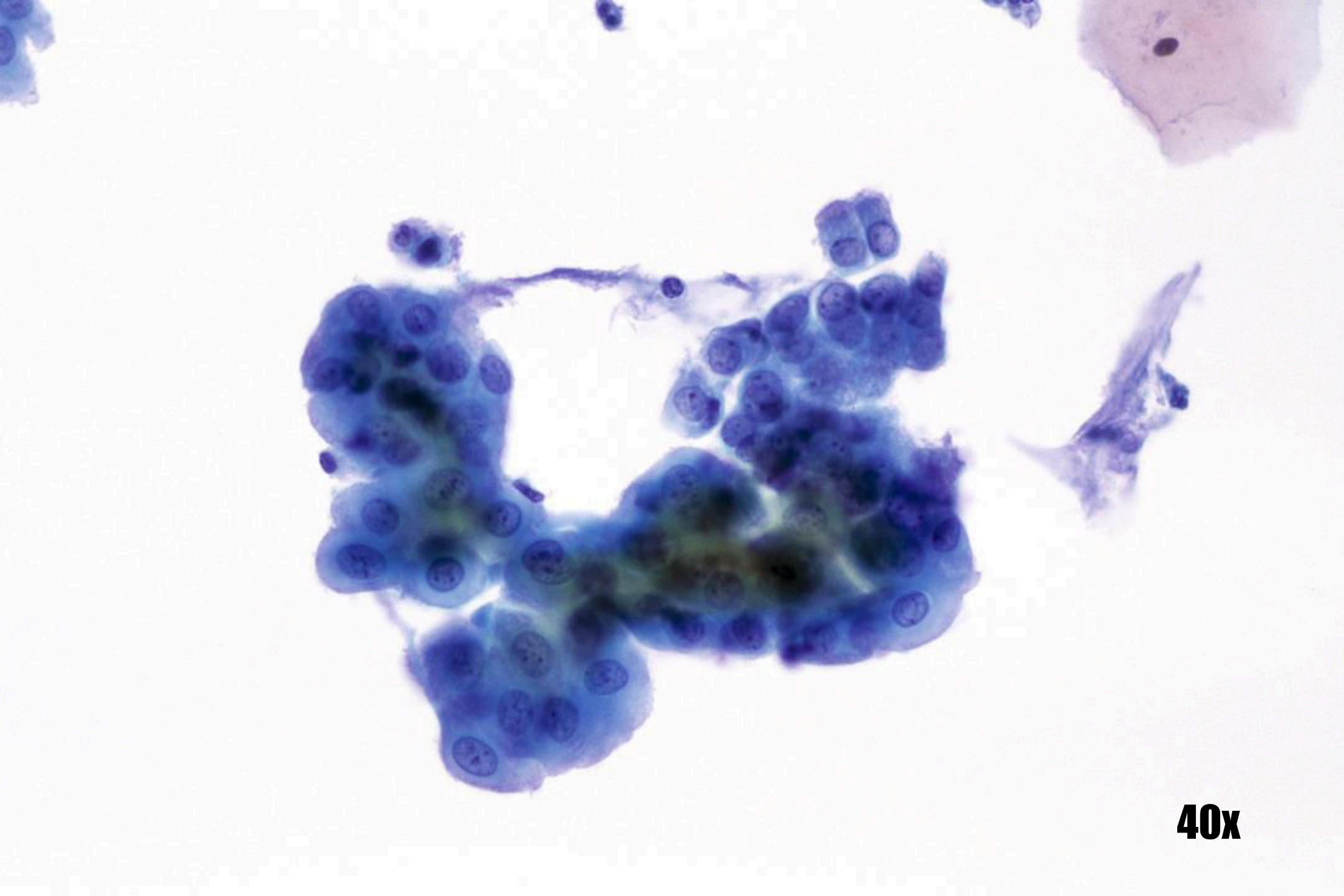
- „Proportioneel“ kleiner
- Losse cellen zijn prominenter
- Cellen worden in de oplossing rond







**40x**



**40x**

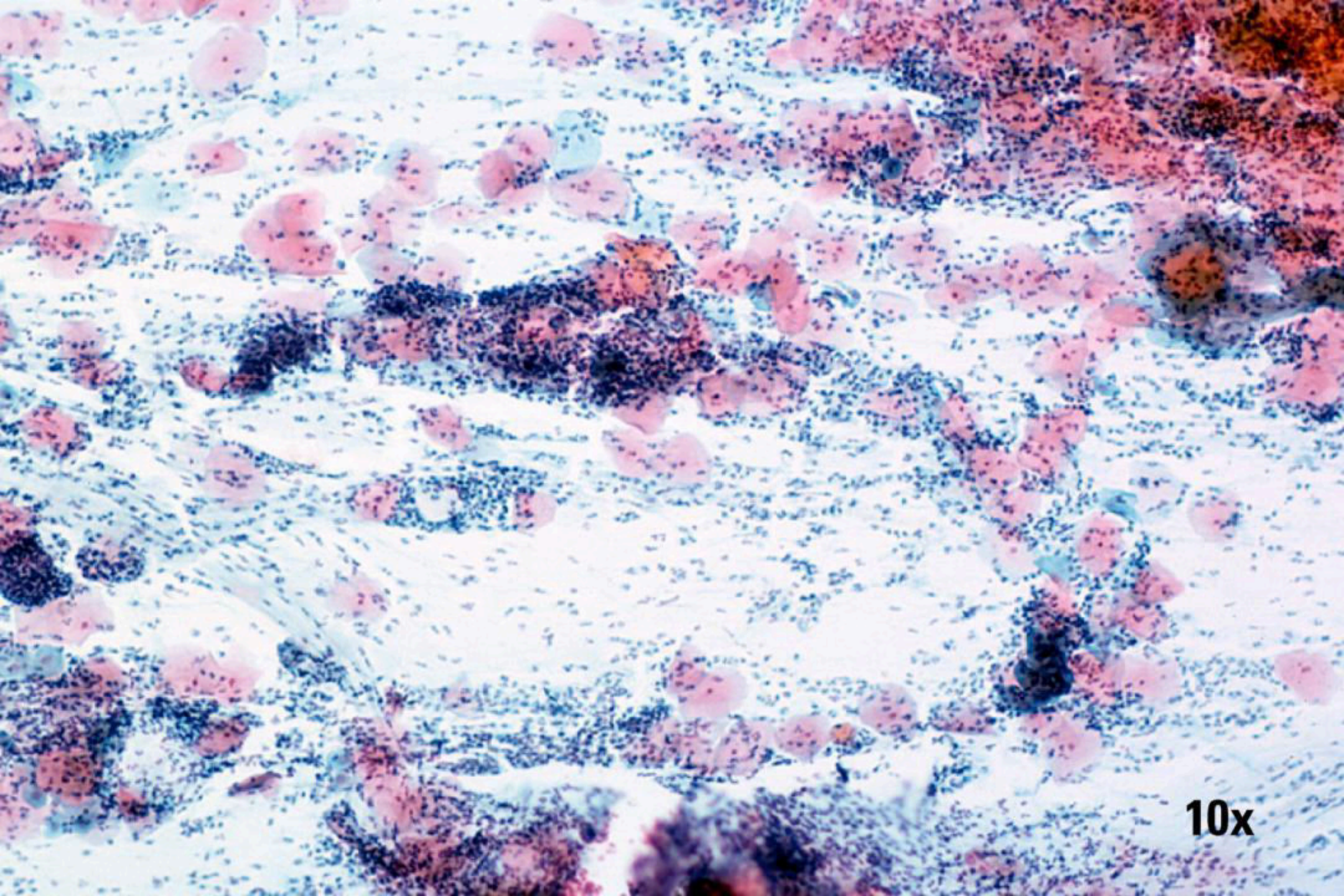
# ThinPrep<sup>®</sup>-kenmerken

## Uitstrijkpatroon

- Mechanische artefacten geëlimineerd
- Celmateriaal wordt niet uit het slijm getrokken
- Weefselstructuur intact







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10x

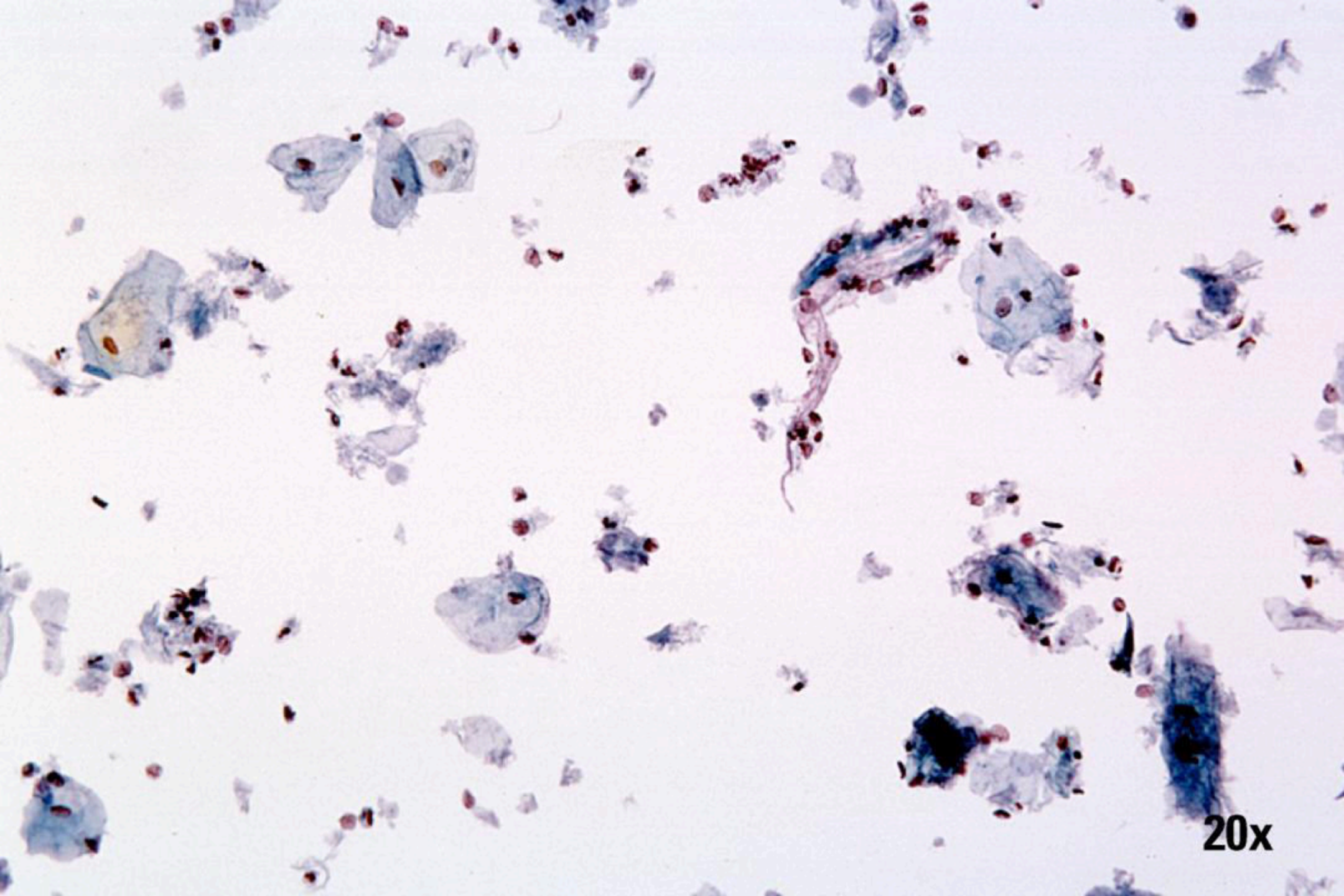
# ThinPrep<sup>®</sup>-kenmerken

## Achtergrond van het specimen

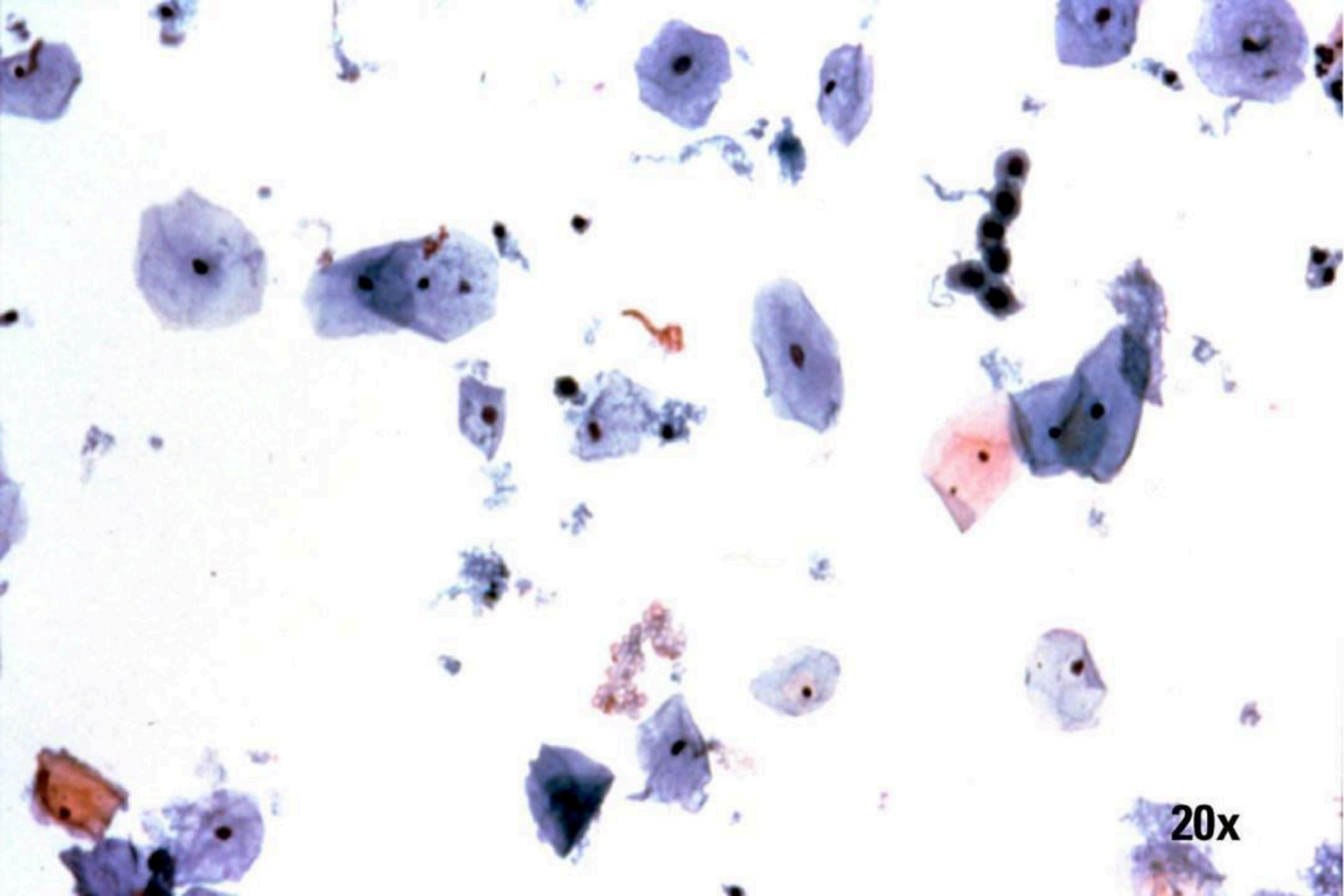
- Schonere achtergrond
- Celmateriaal meer gegroepeerd
- „Informatie“ in de achtergrond
- Smoezelige achtergrond:  
infectueuze stof, cytolyse, bloed (menstruatie), ZIEKTE





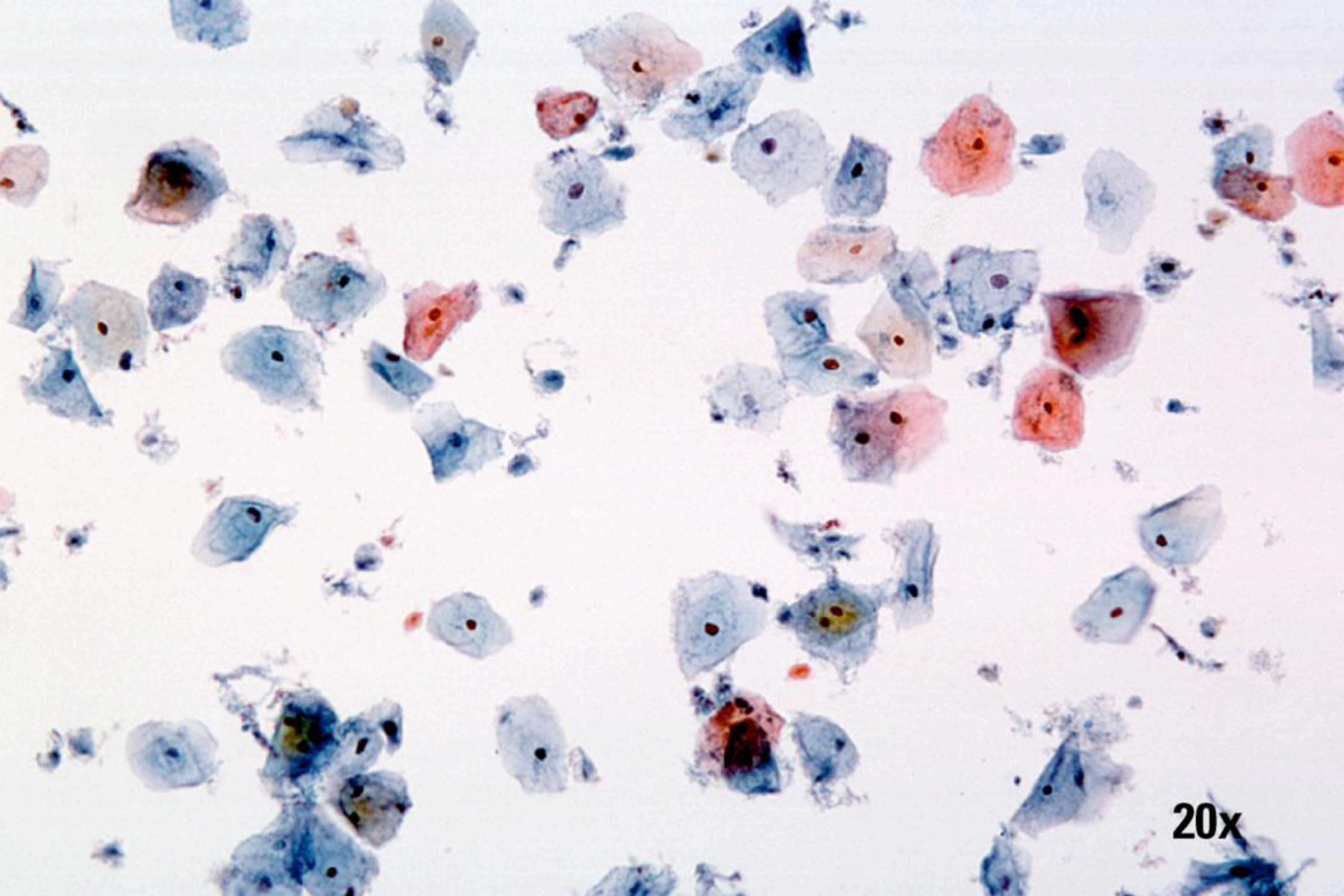


20x



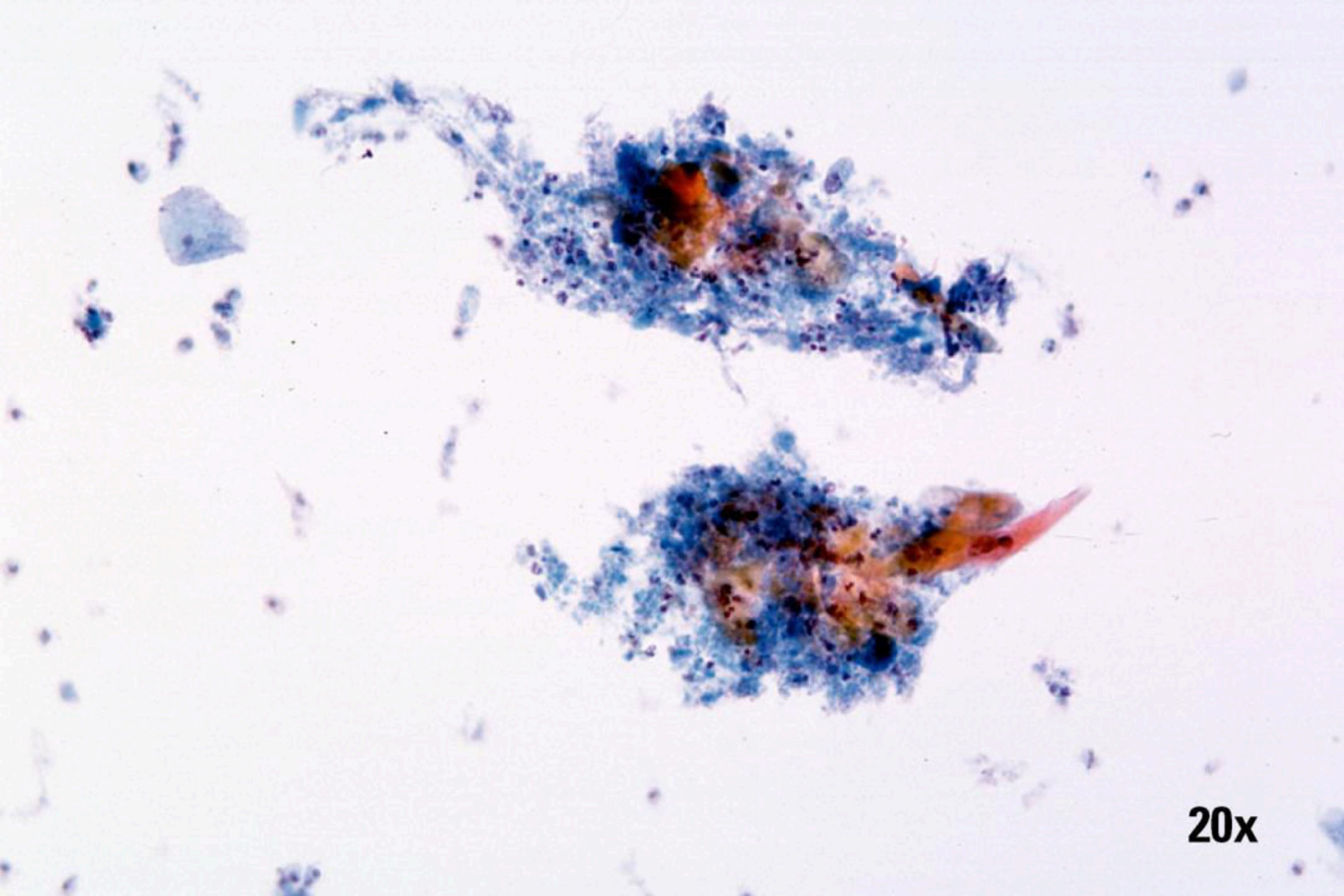
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20x

# ThinPrep<sup>®</sup>-kenmerken

## Screeningstechniek

- Systematisch
- Langzaam
- Lichte overlap

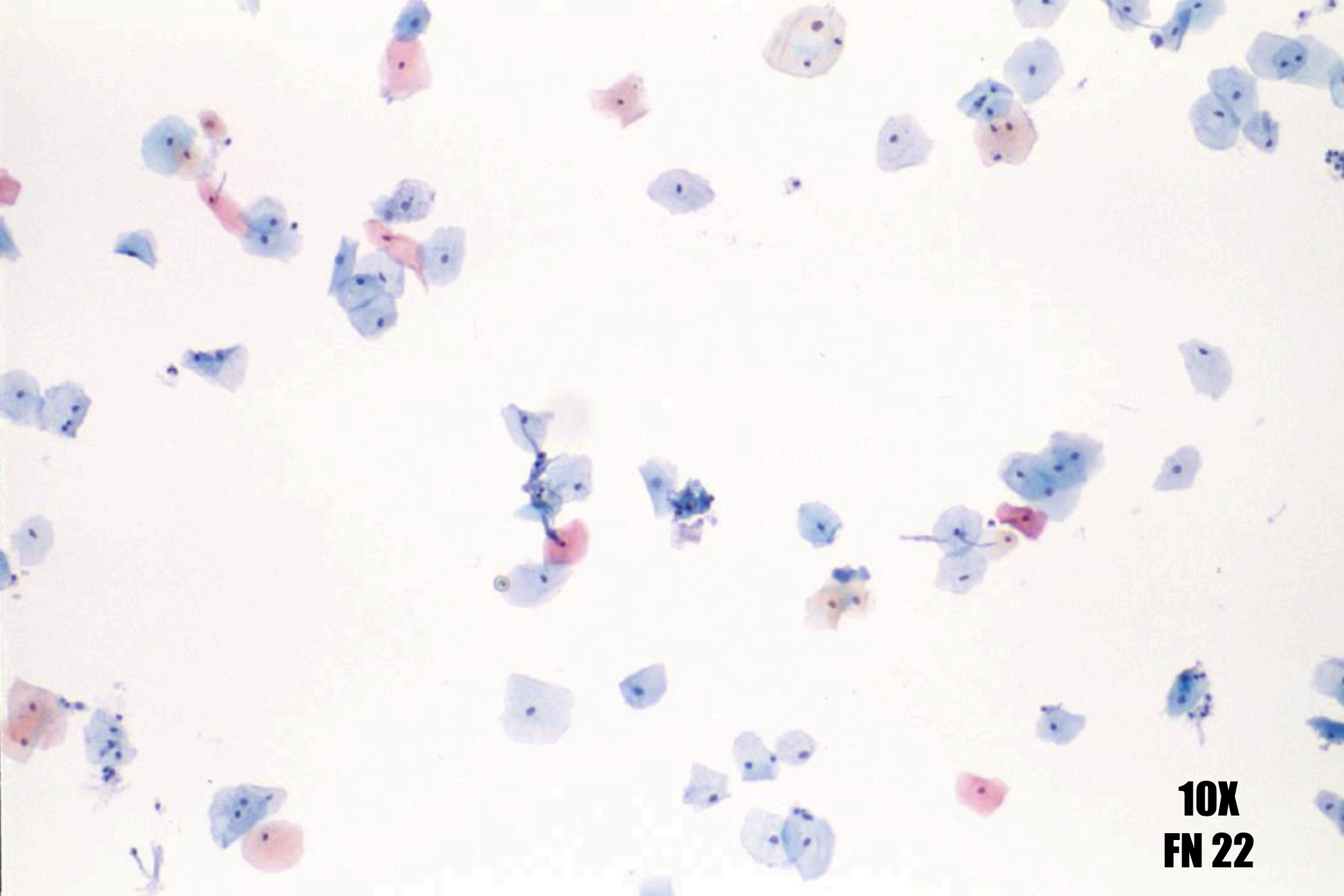


# ThinPrep<sup>®</sup>-kenmerken

## Celsamenstelling voor beoordeling van geschiktheid

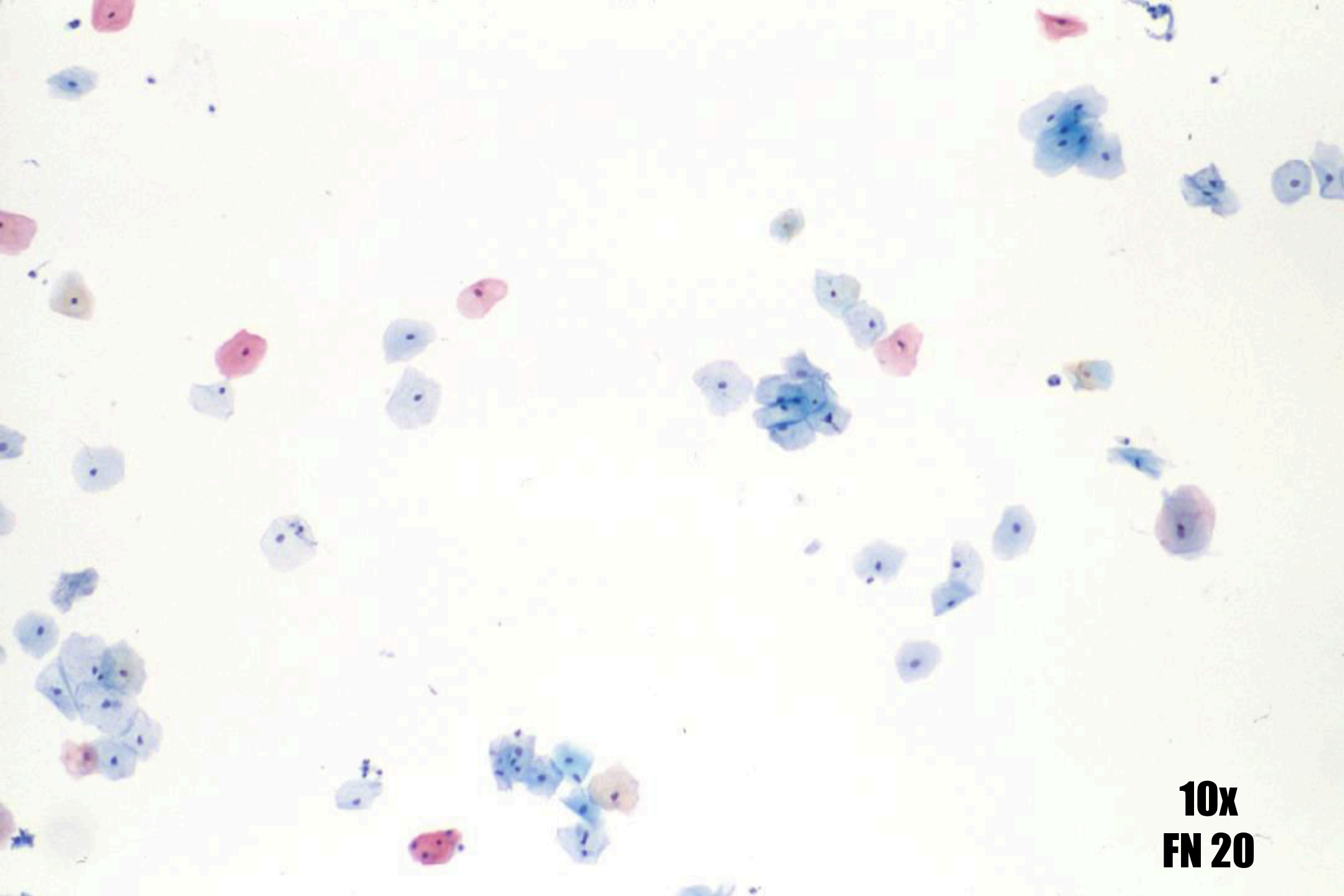
DIAM CELMONS TER MM	Opp.	FN20 oculair/10x obj.		FN20 oculair/40x obj.		FN22 oculair/10x obj.		FN22 oculair/40x obj.	
		Aantal velden FN20 10X	Aantal cellen/veld v. 5000 totaal	Aantal velden FN20 40X	Aantal cellen/veld v. 5000 totaal	Aantal velden FN22 10X	Aantal cellen/veld v. 5000 totaal	Aantal velden FN22 40X	Aantal cellen/veld v. 5000 totaal
20	314.2	100	50.0	1600	3.1	82.6	60.5	1322	3.8



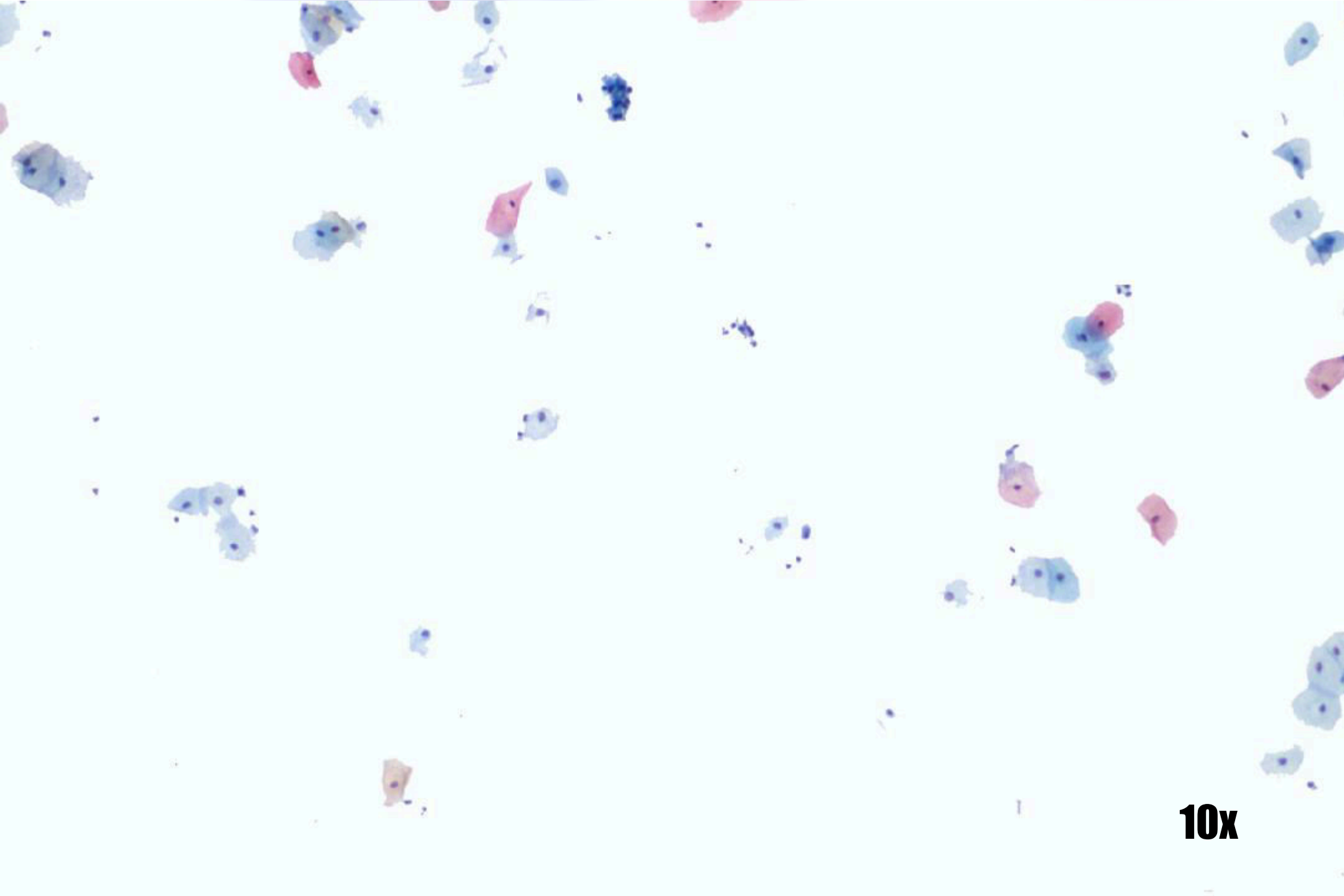


**10X**  
**FN 22**

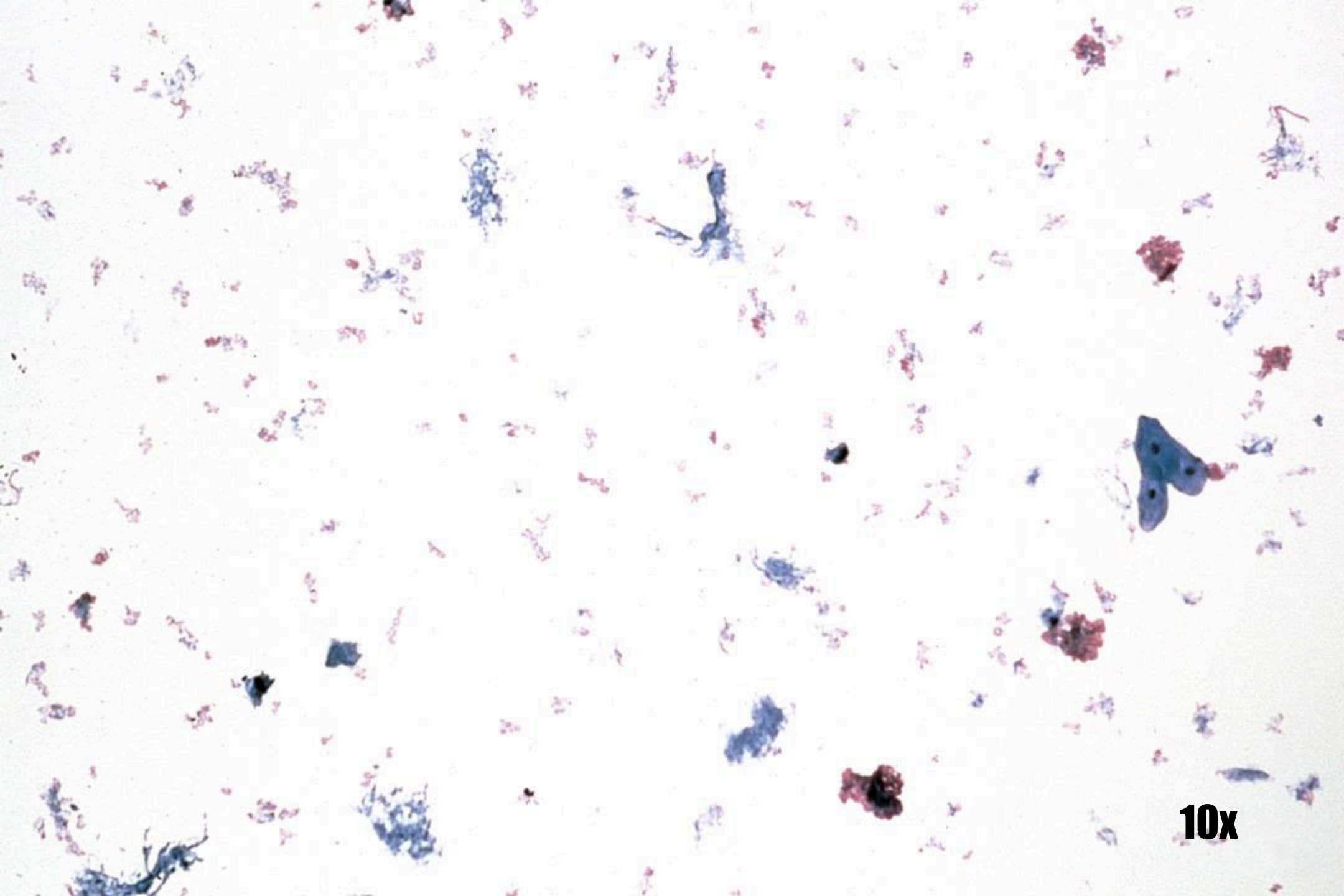




**10x**  
**FN 20**

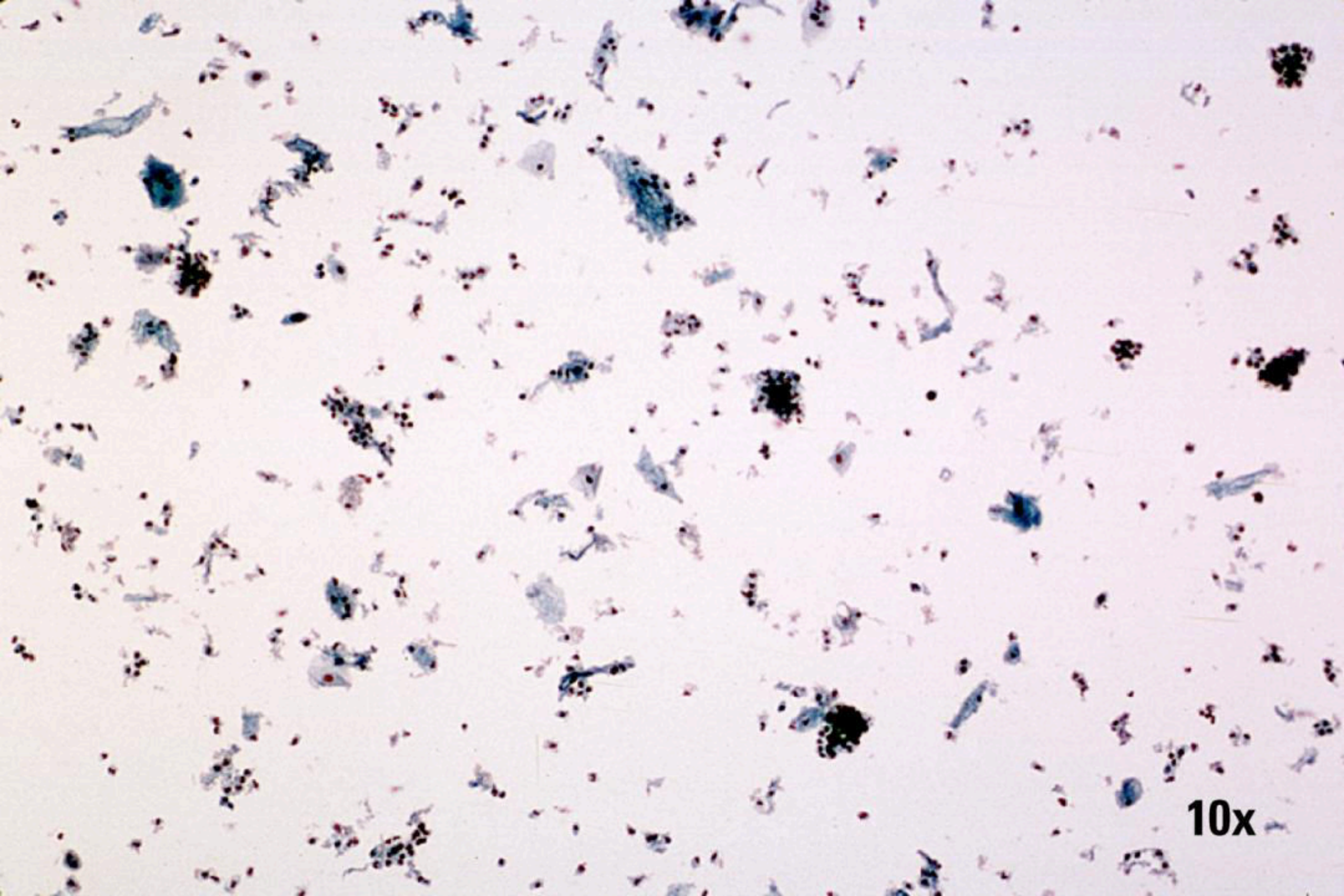


**10x**



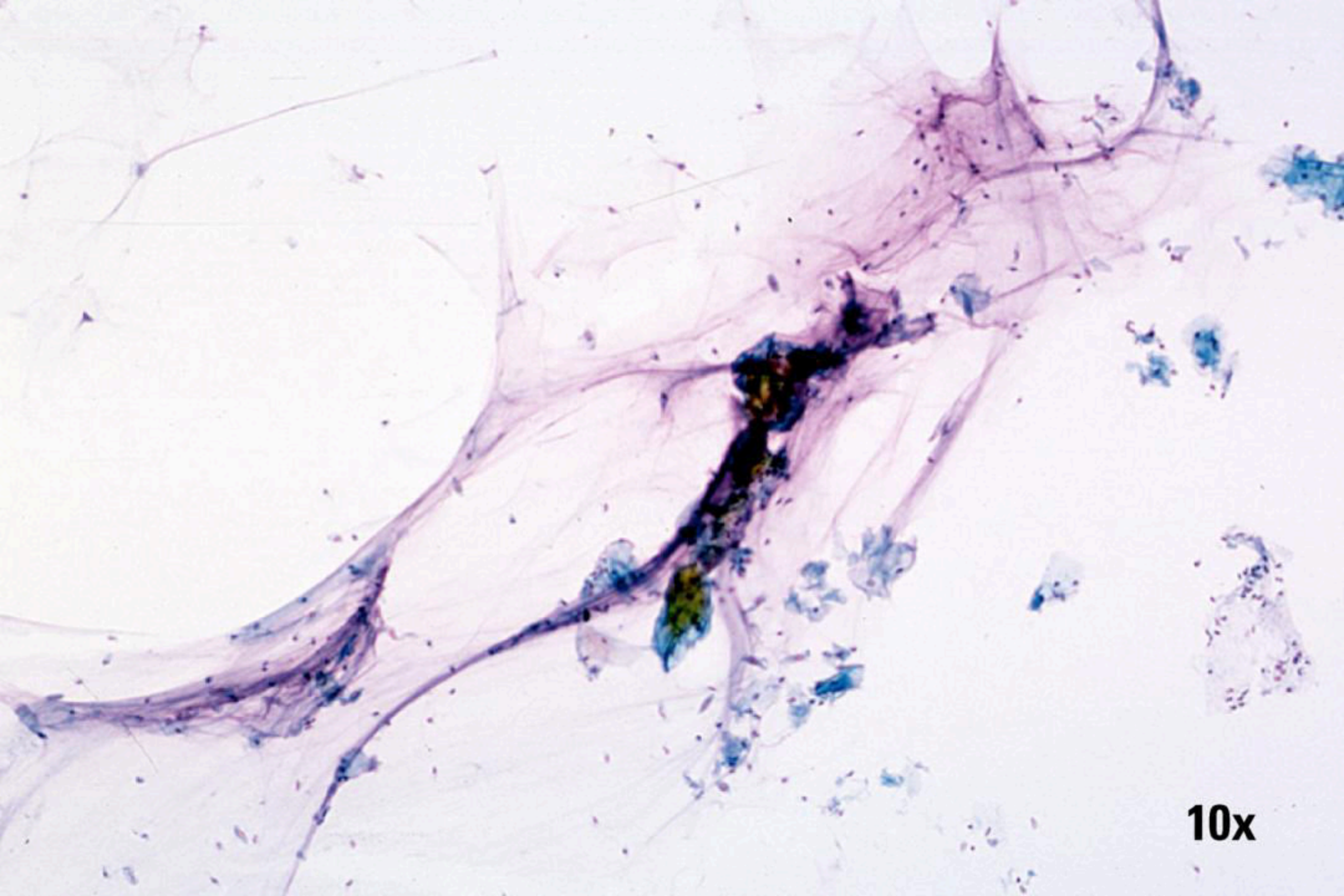
**10x**





10x



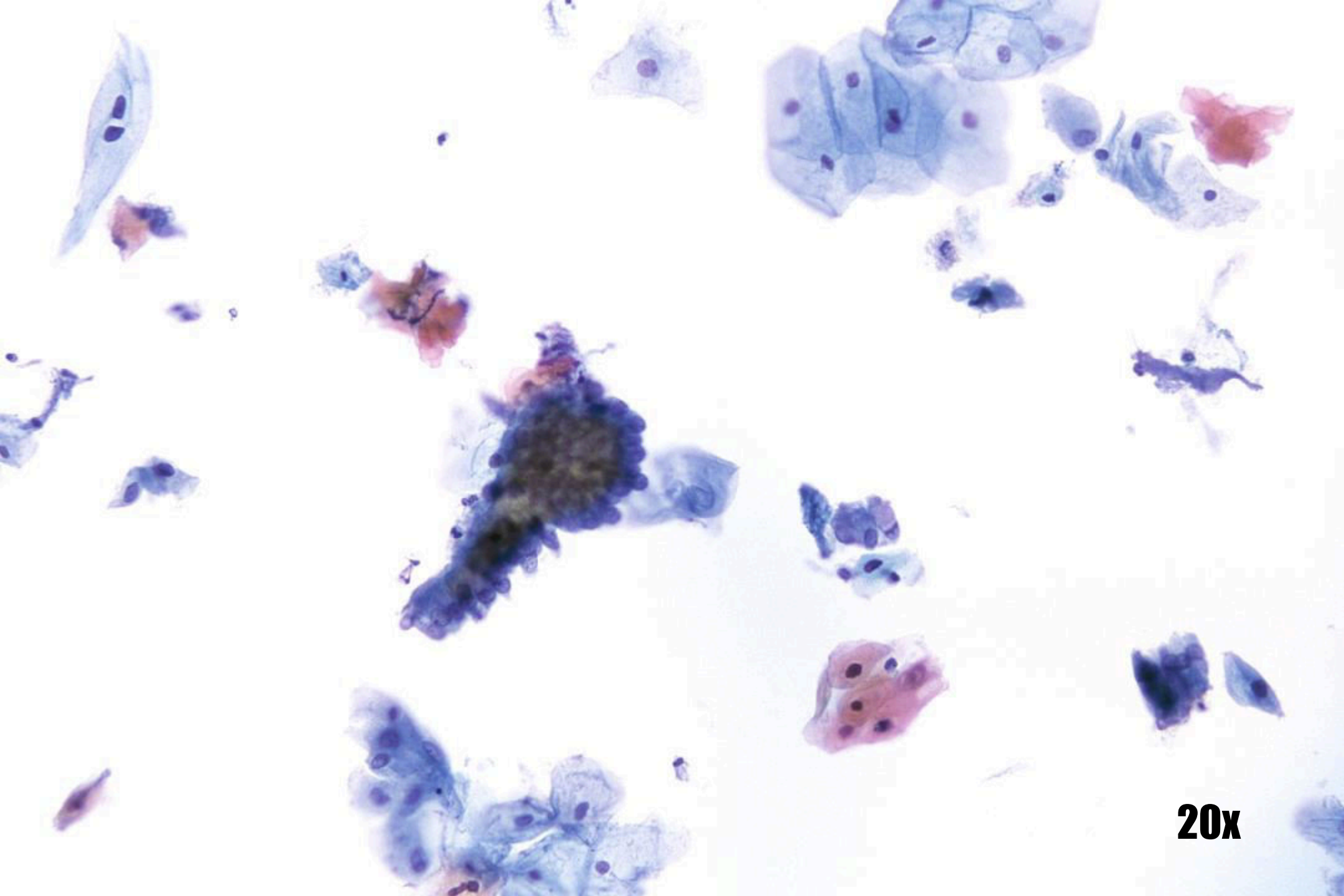


10x

# Endocervicale cellen

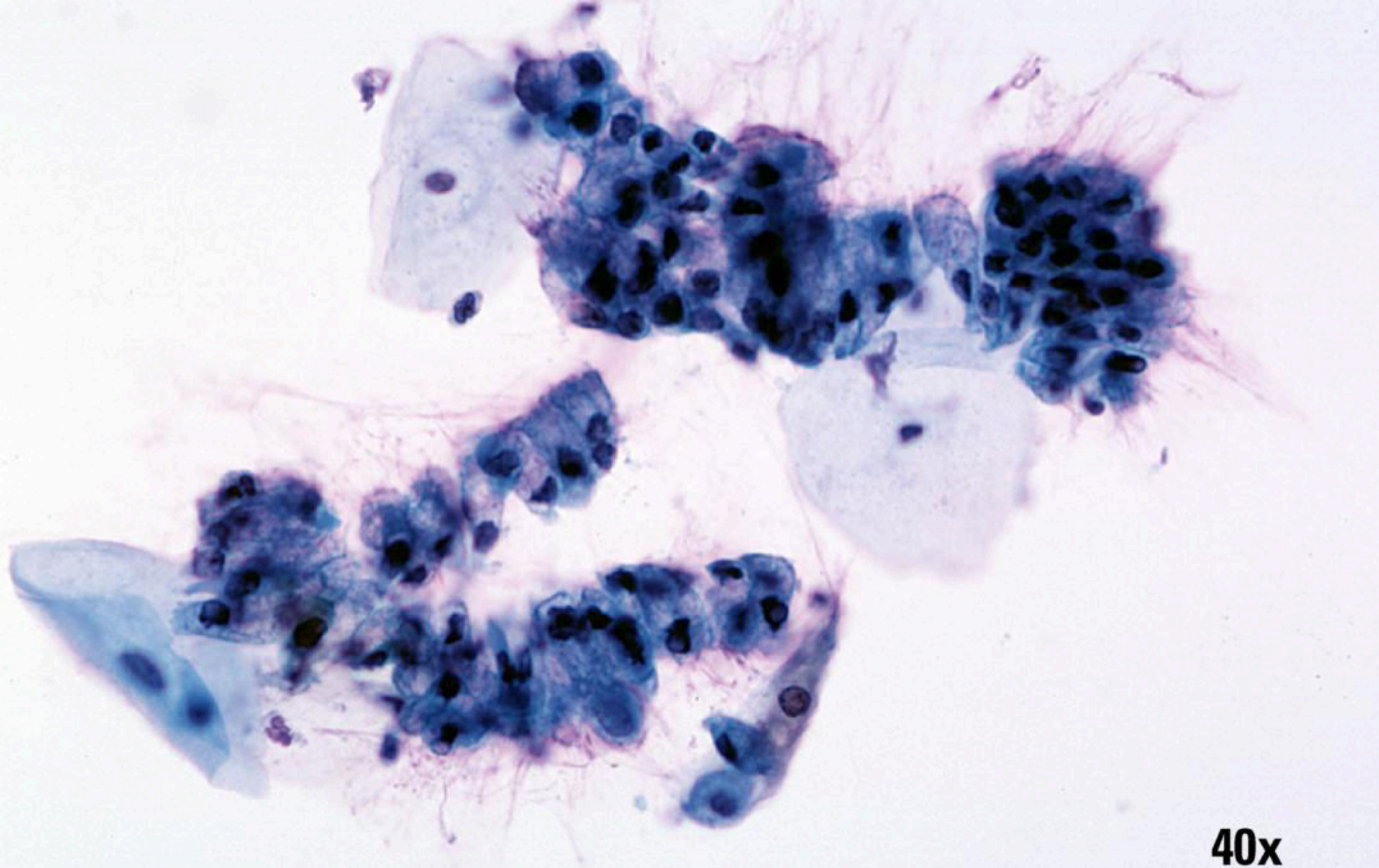
- Honingraat-/ palisadering intact
- Cellen worden in de oplossing rond
- Cellen zijn dichter op elkaar gepakt
- Kleinere celgroepen/losse cellen
- Kernen zijn „drukker“



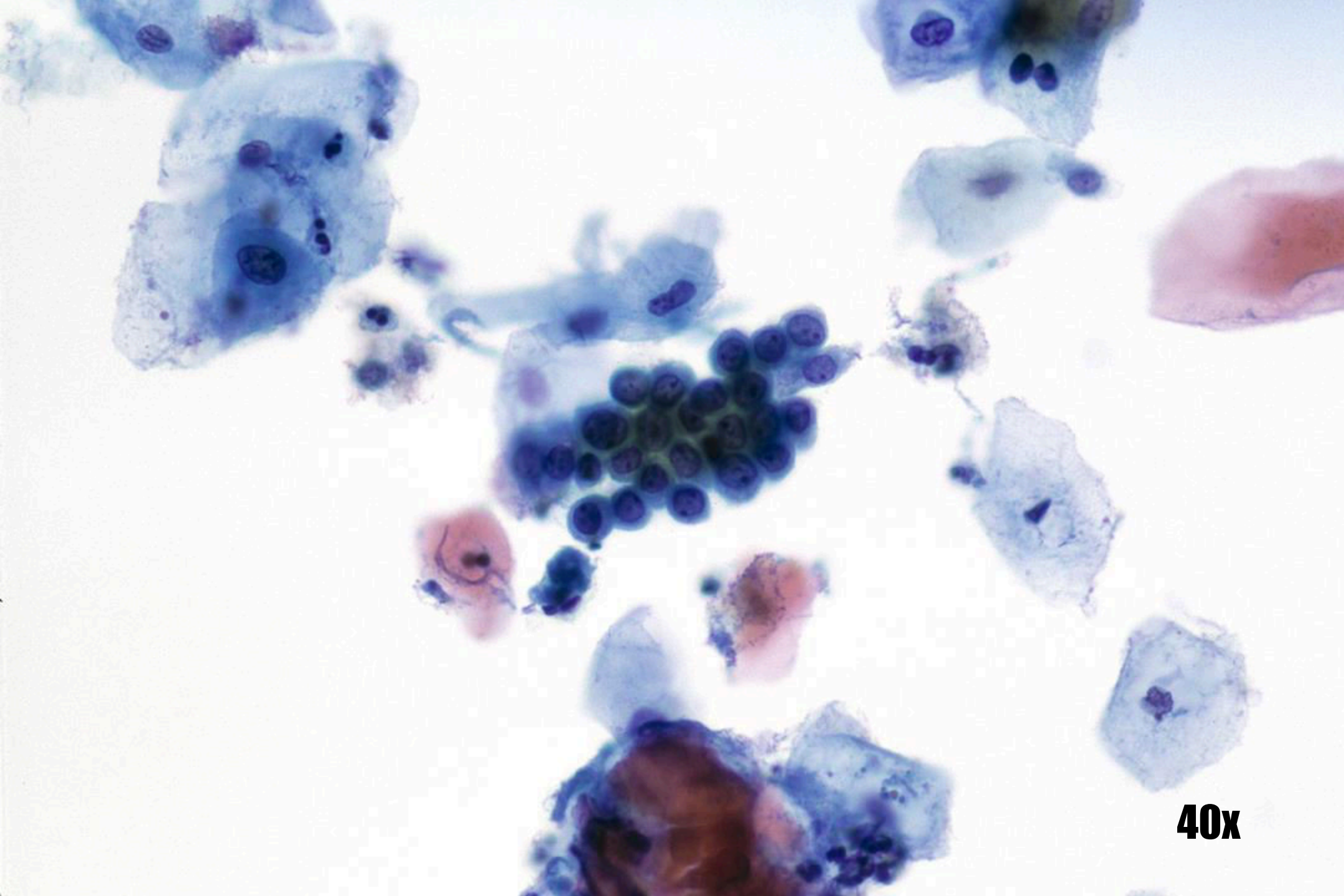


20x





40x

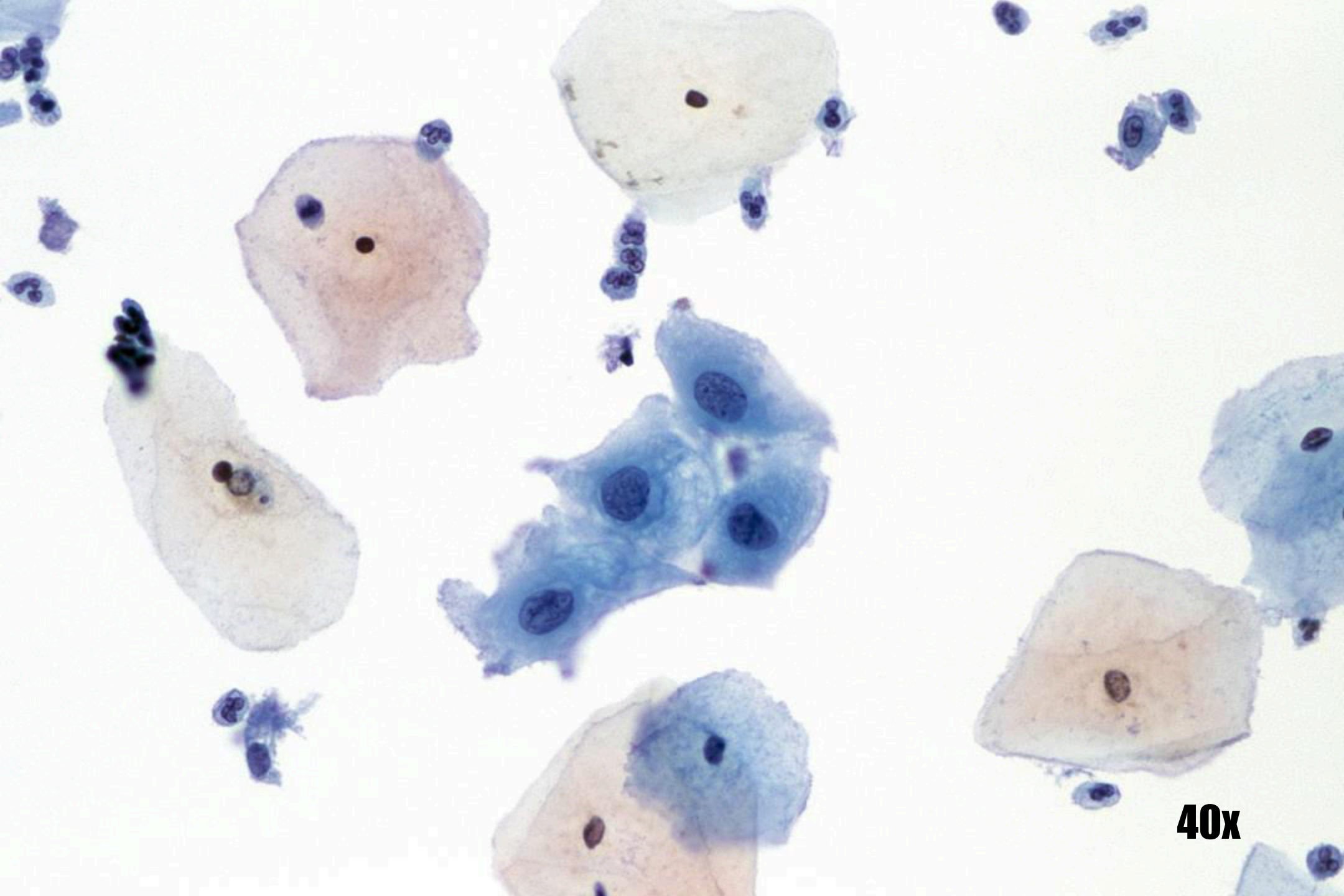


**40x**

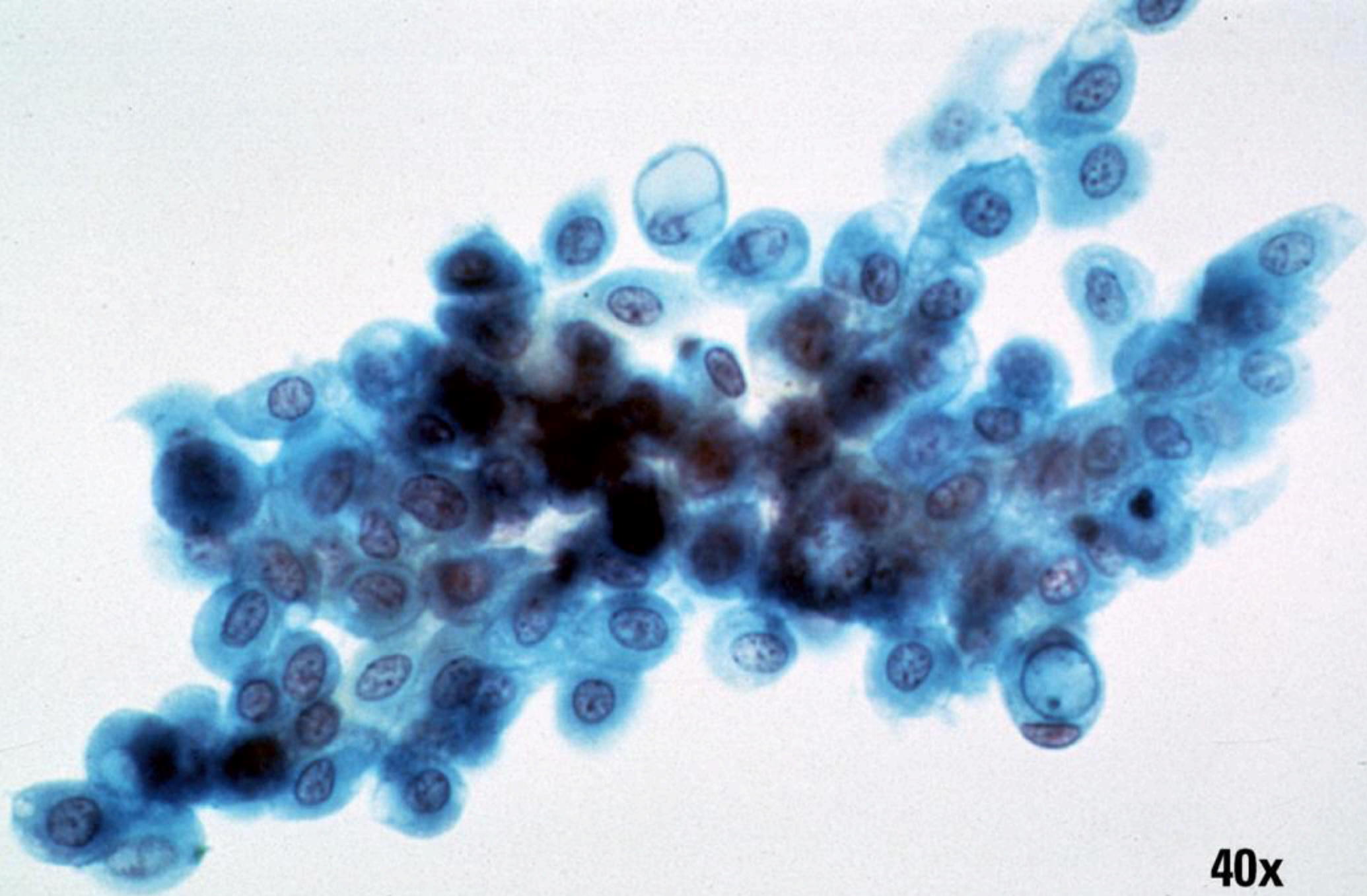
# Squameuze metaplasie

- Organisatie in lagen/kinderkopjes
- Dicht, homogeen cytoplasma
- Cellen vaak los
- Cellen lijken kleiner en ronder





**40x**



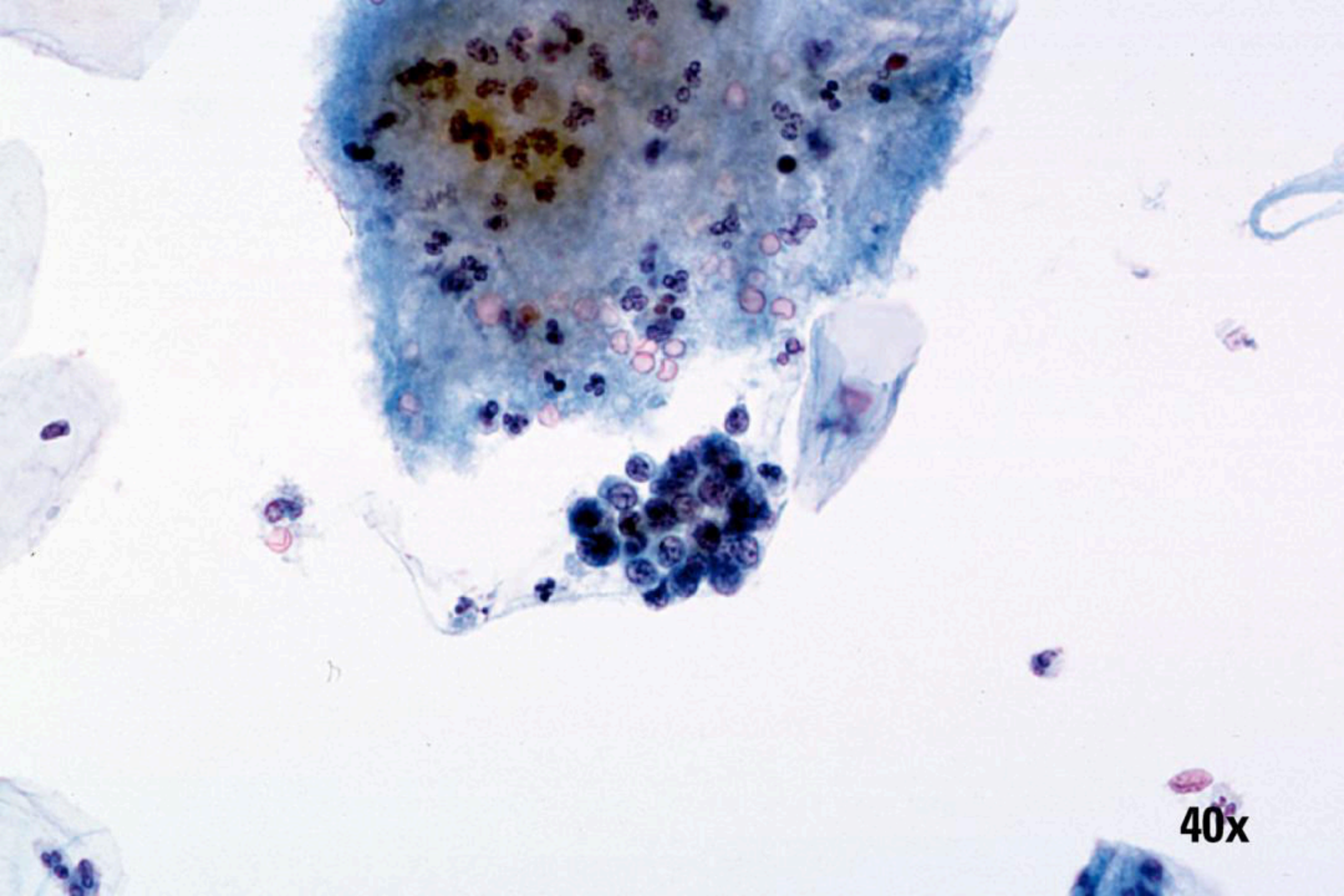
40x



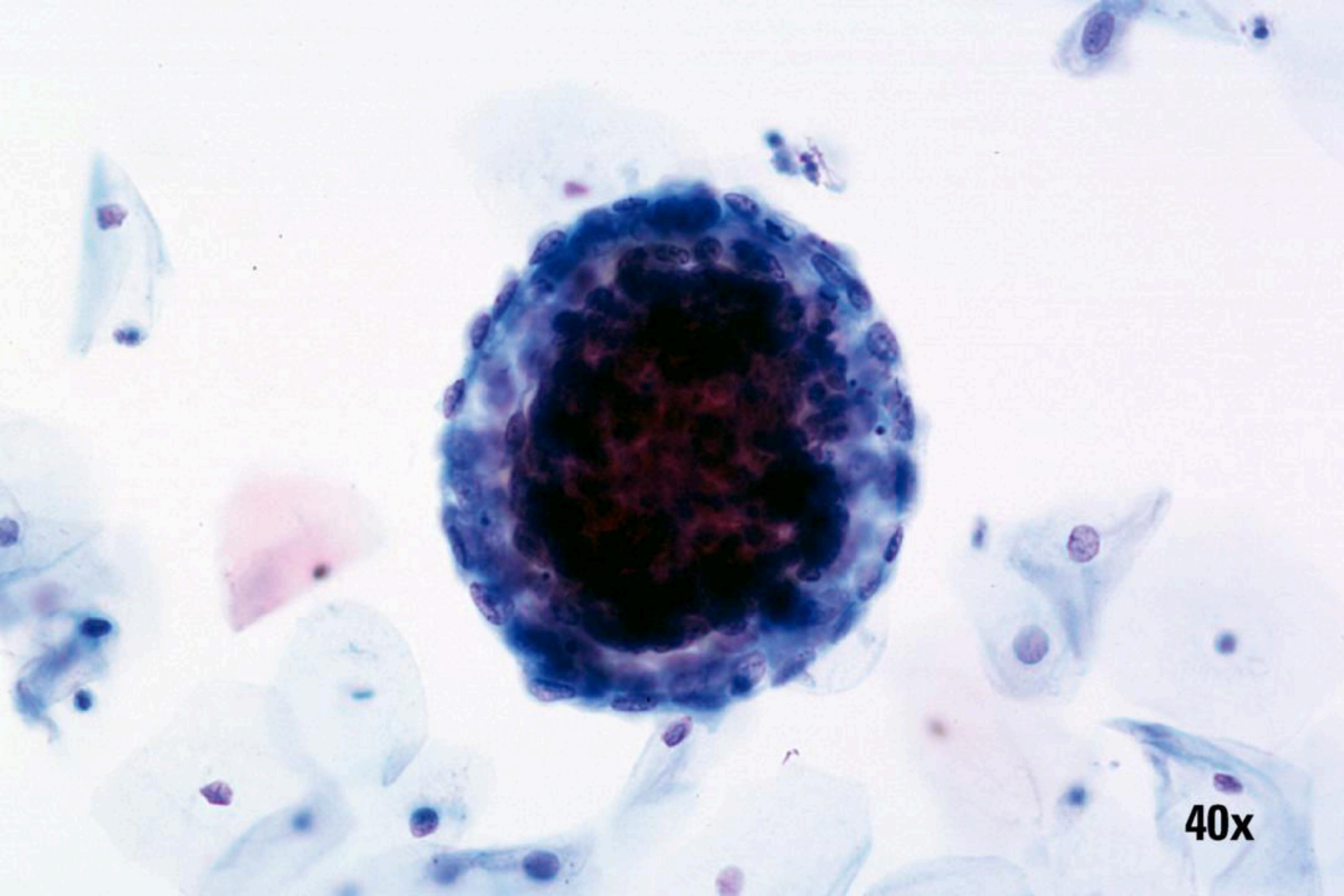
# Endometriale cellen

- Dichte 3D-celclusters
- Losse celclusters met gevacuoliseerd cytoplasma
- Losse cellen zijn prominenter
- Kernen zijn „drukker“
- Gelyseerd menstrueel bloed



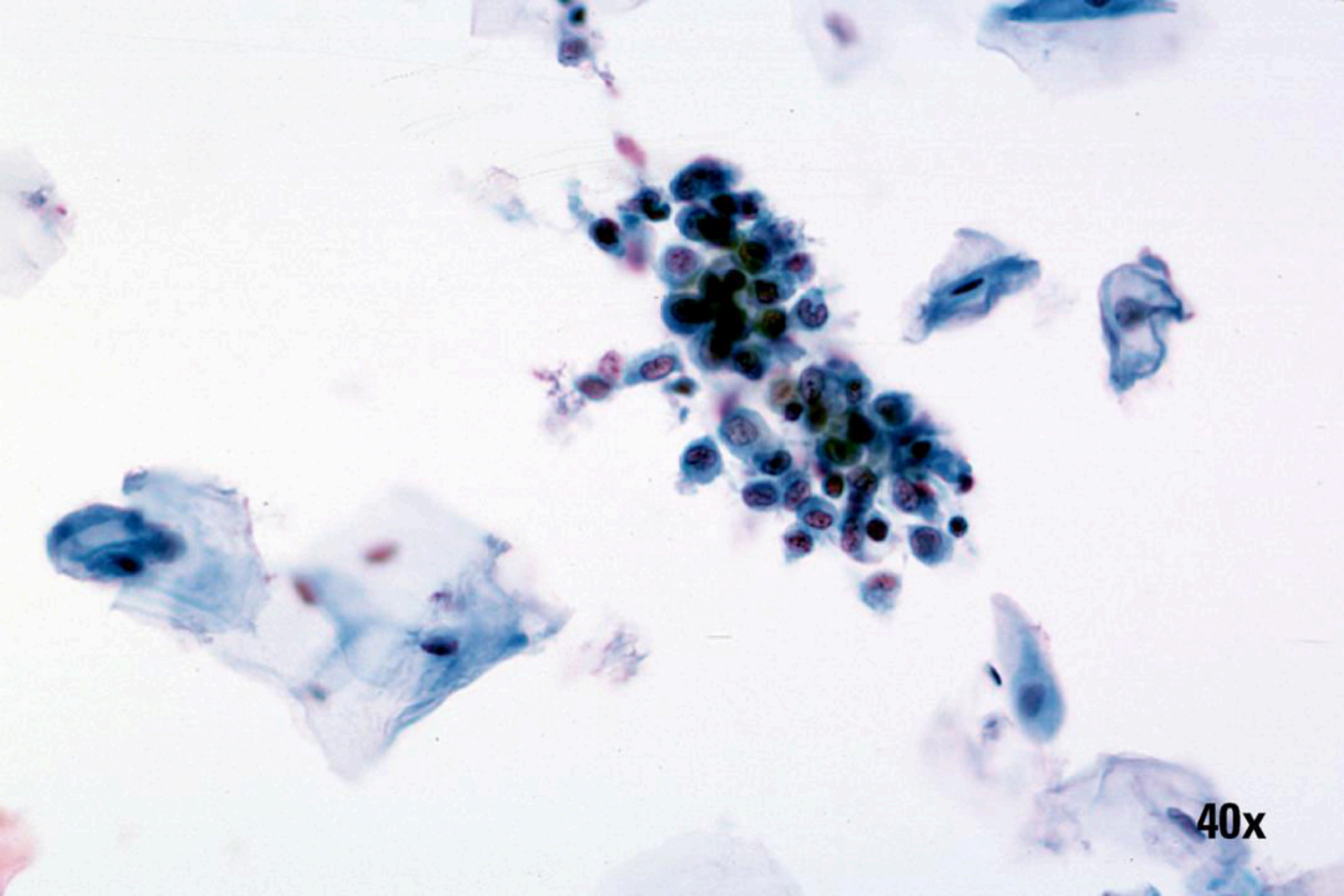


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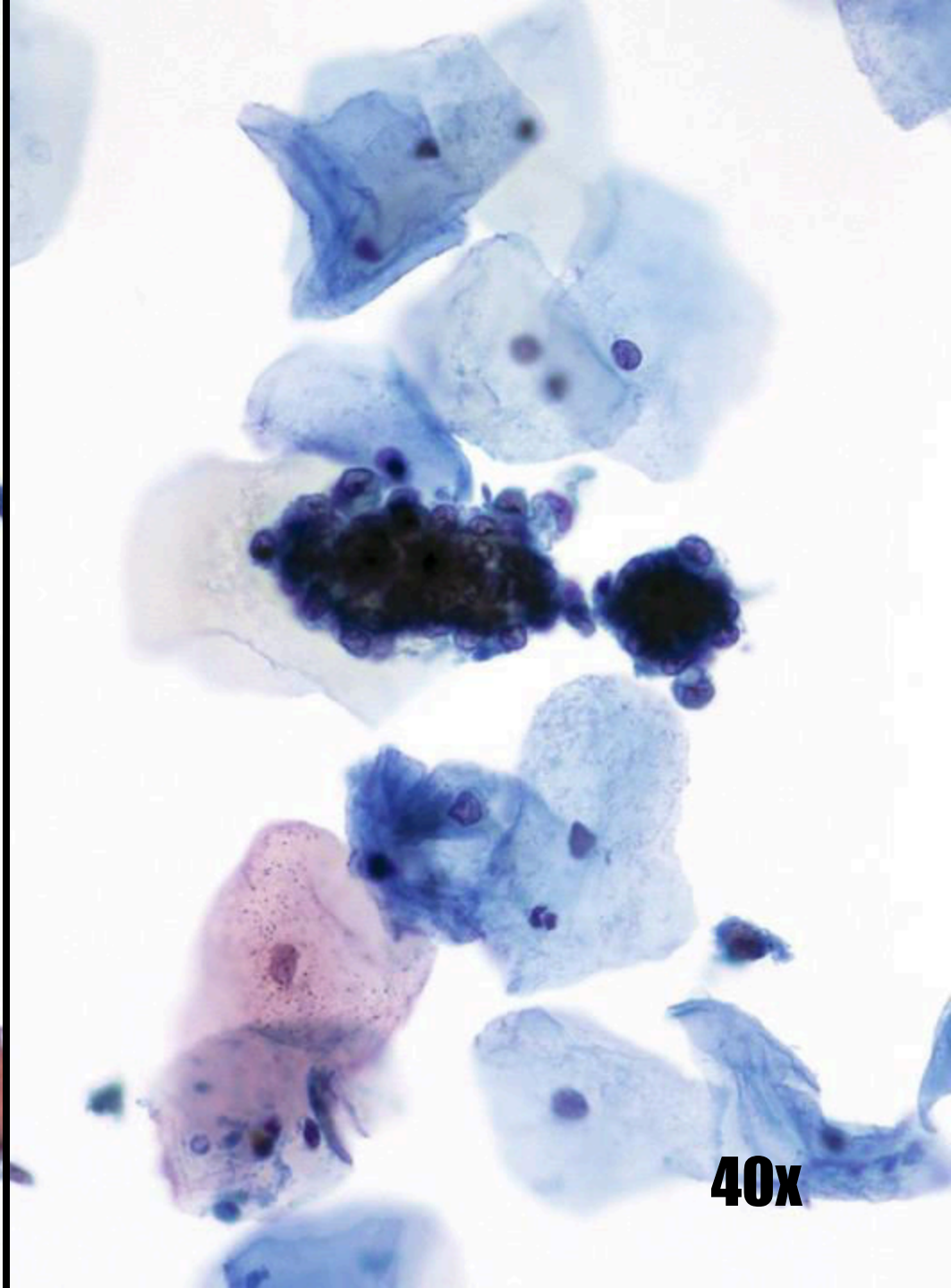
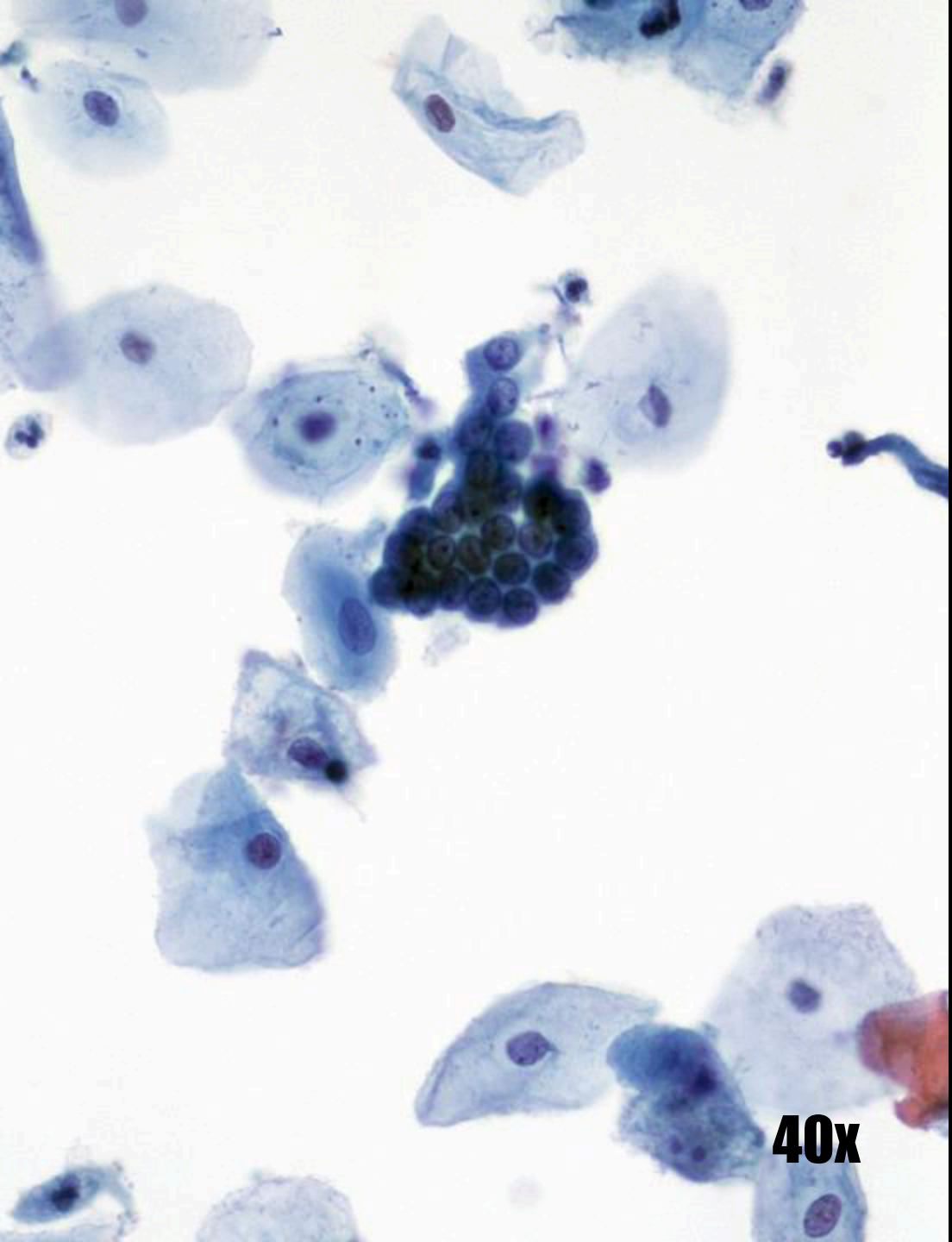
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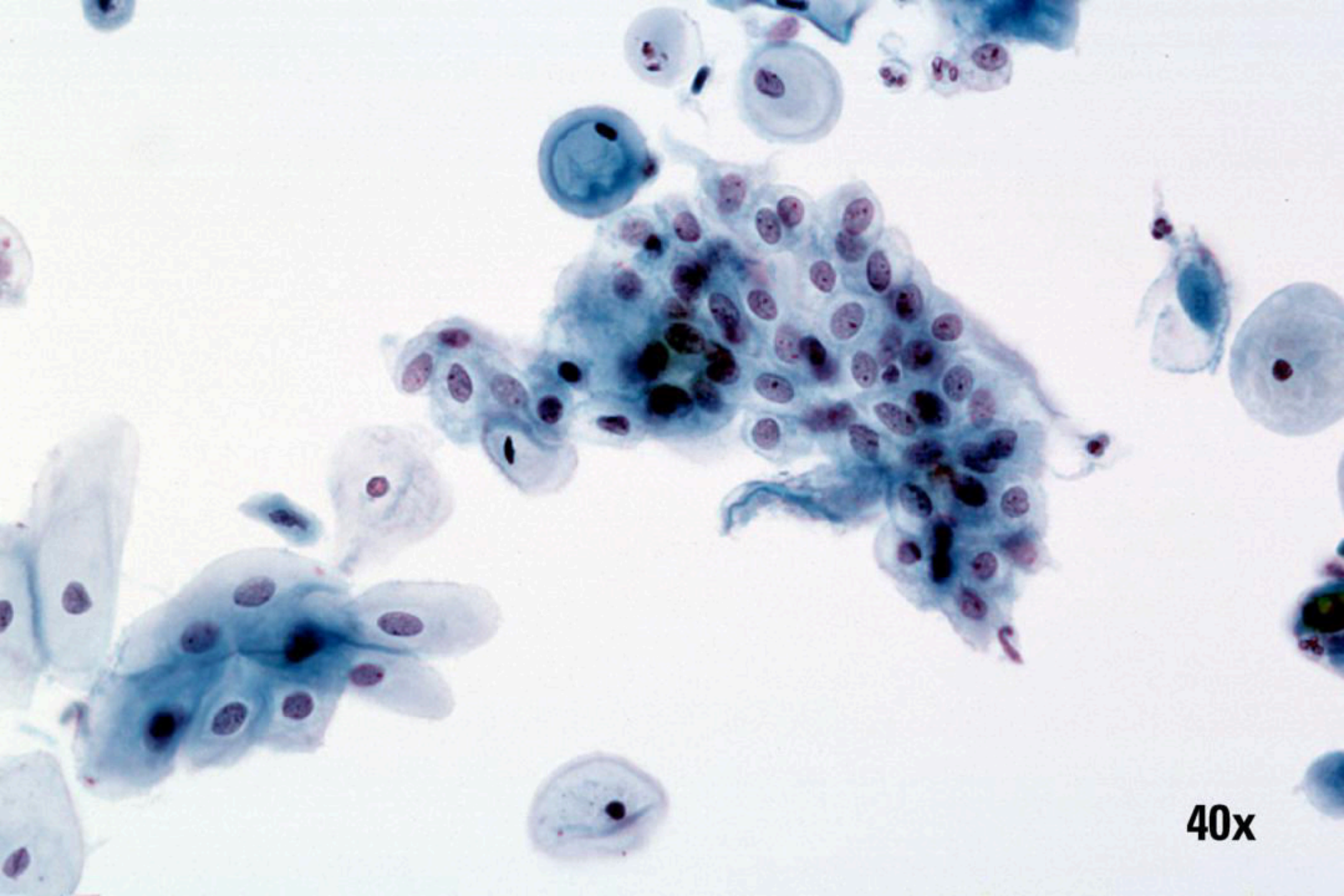
40x





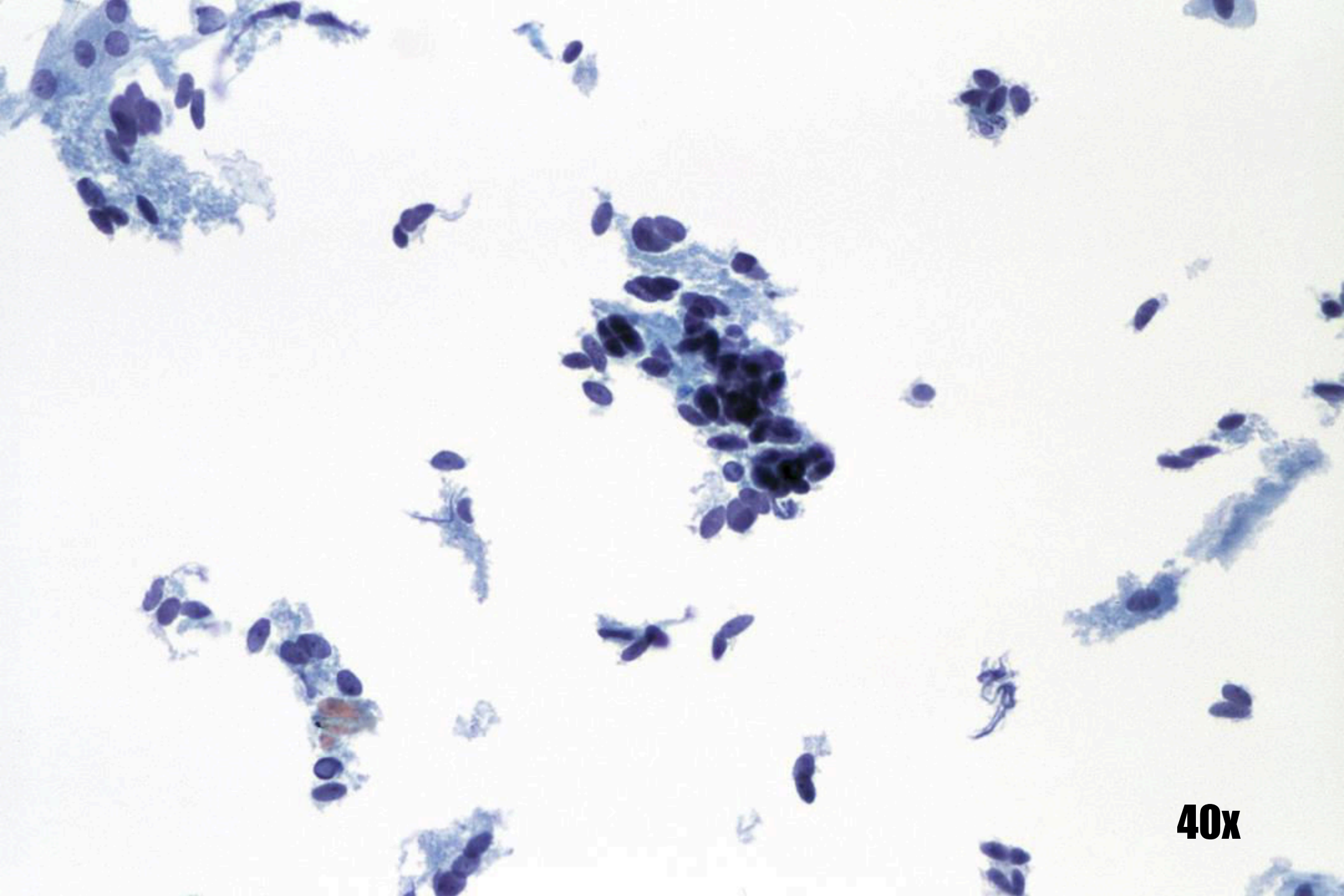
# Atrofie

- Goed geconserveerde lagen met parabasale cellen
- Endocervicale cellen kunnen onderscheiden worden
- „Minder“ naakte kernen
- „Atrofische vaginitis“ -patroon meer geklonterd

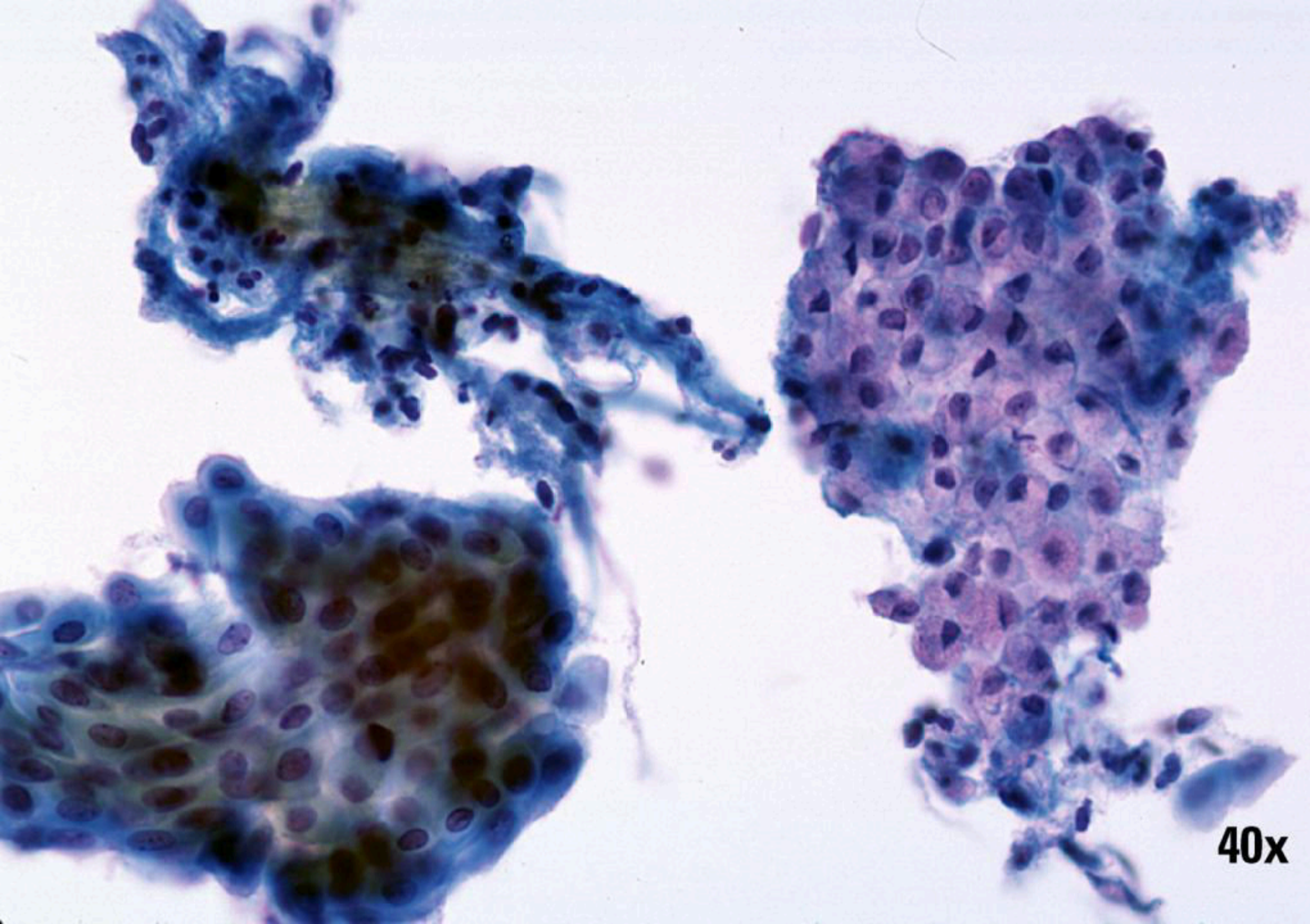


40x



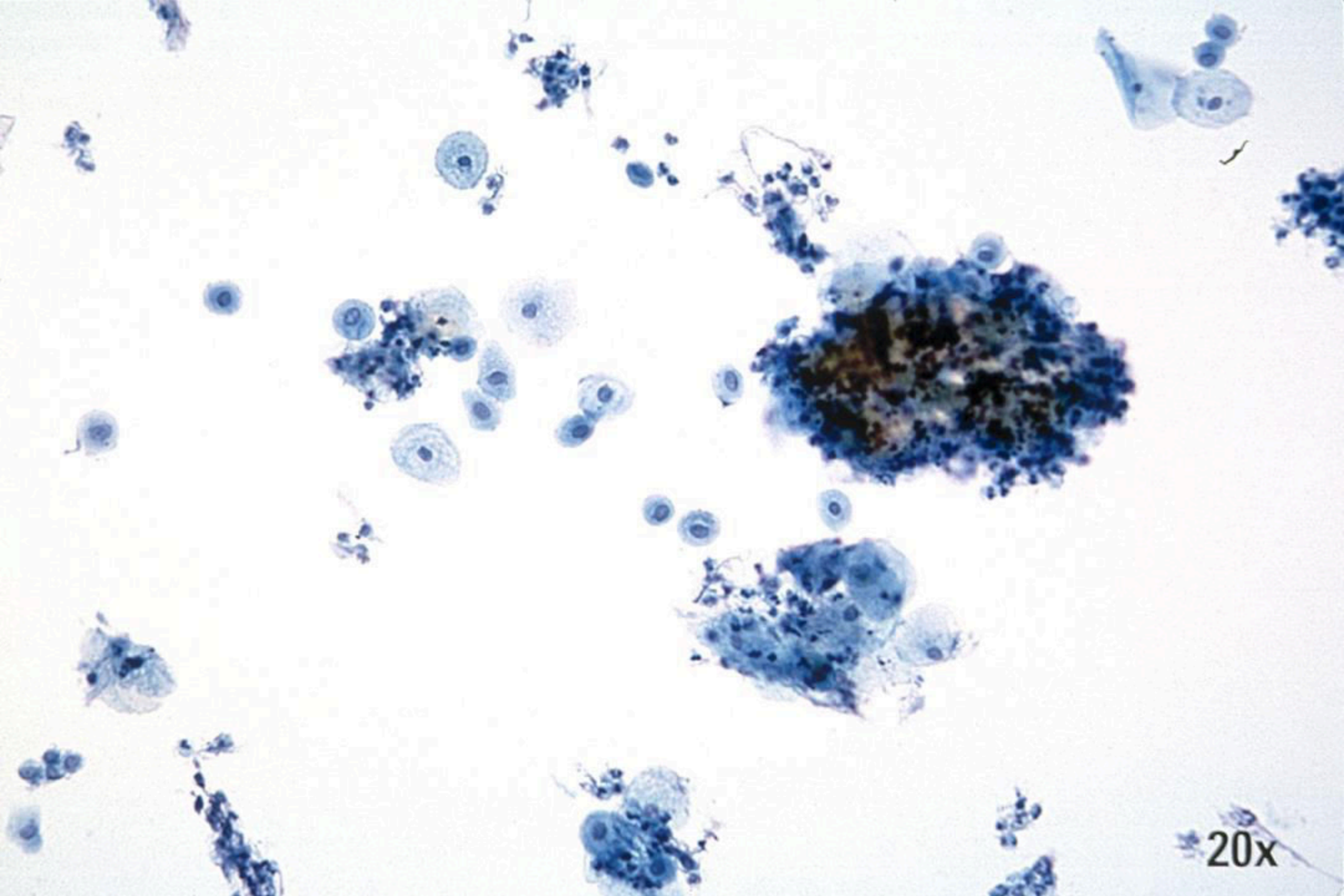


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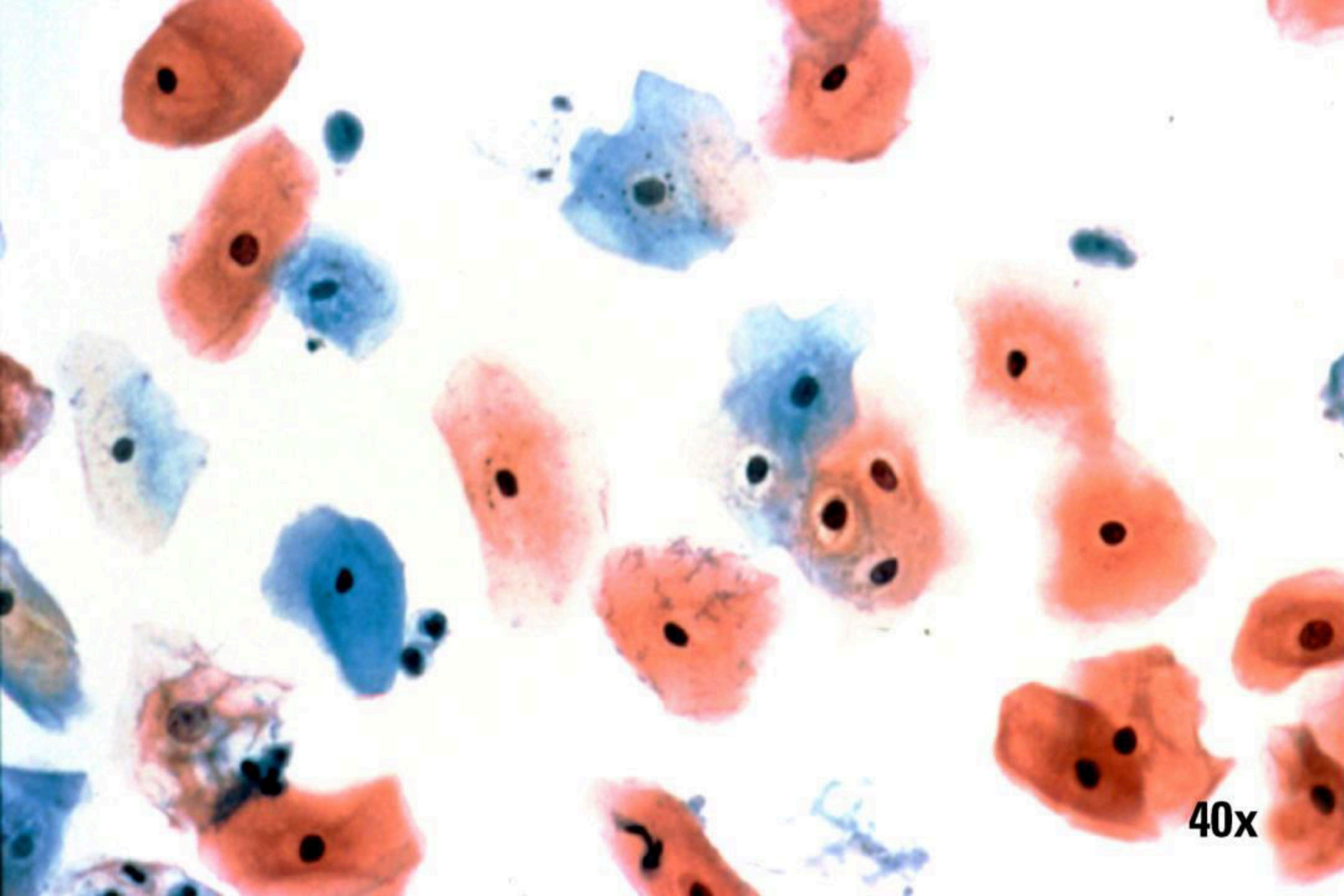
20x



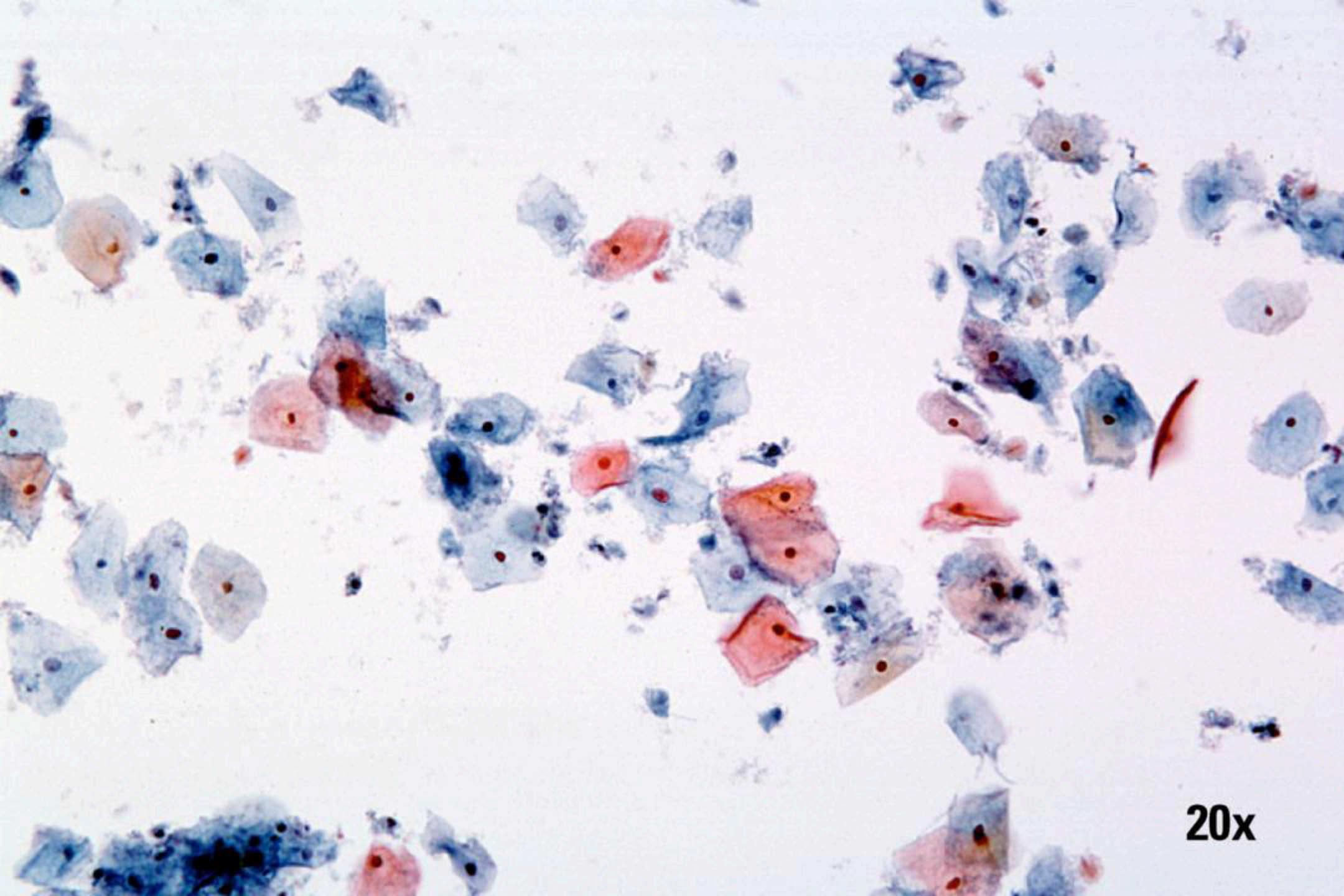
# Trichomonas Vaginalis

- Vaak kleiner
- Interne structuur gemakkelijk herkenbaar
- Klassieke „trich“ -patroon intact





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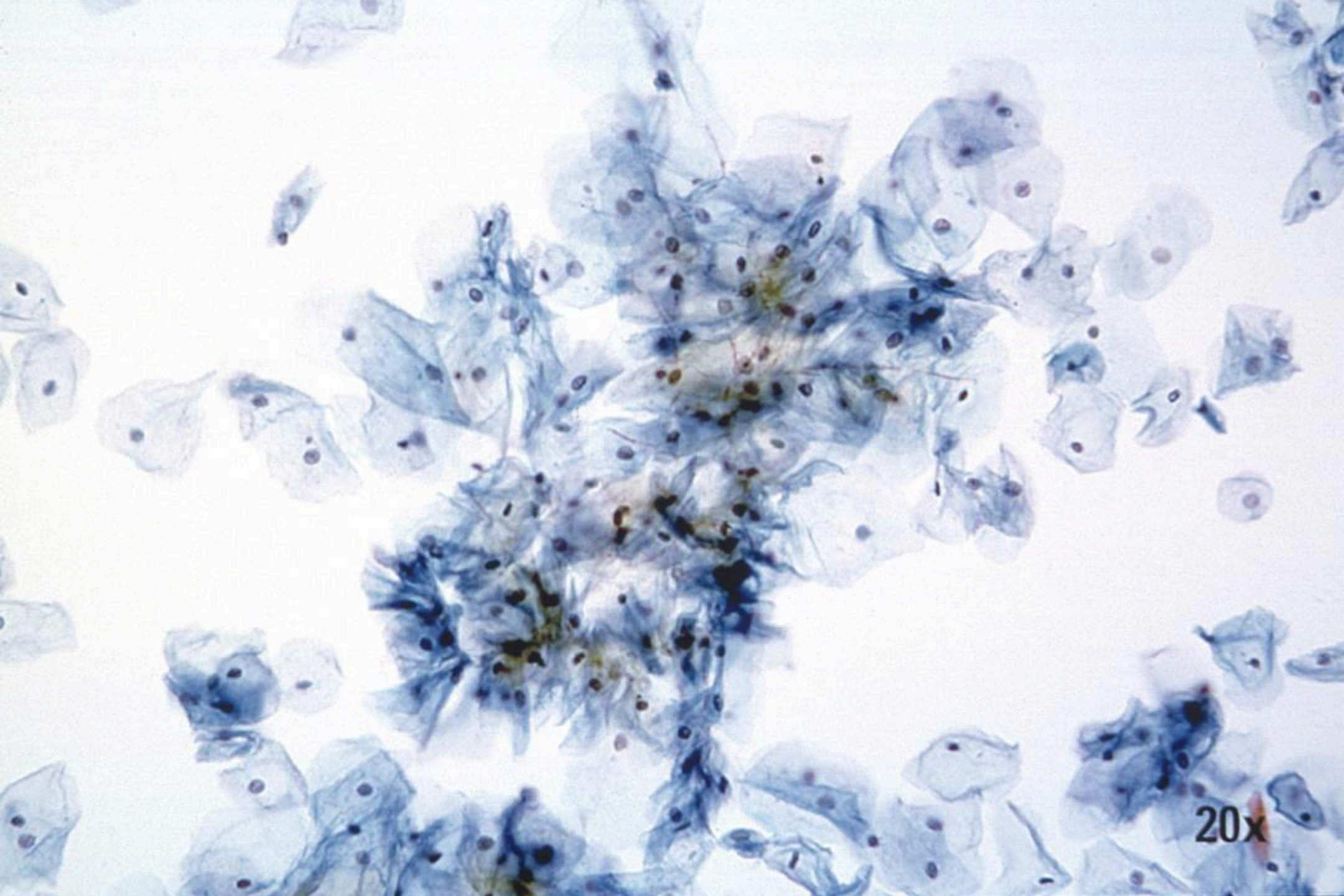


20x



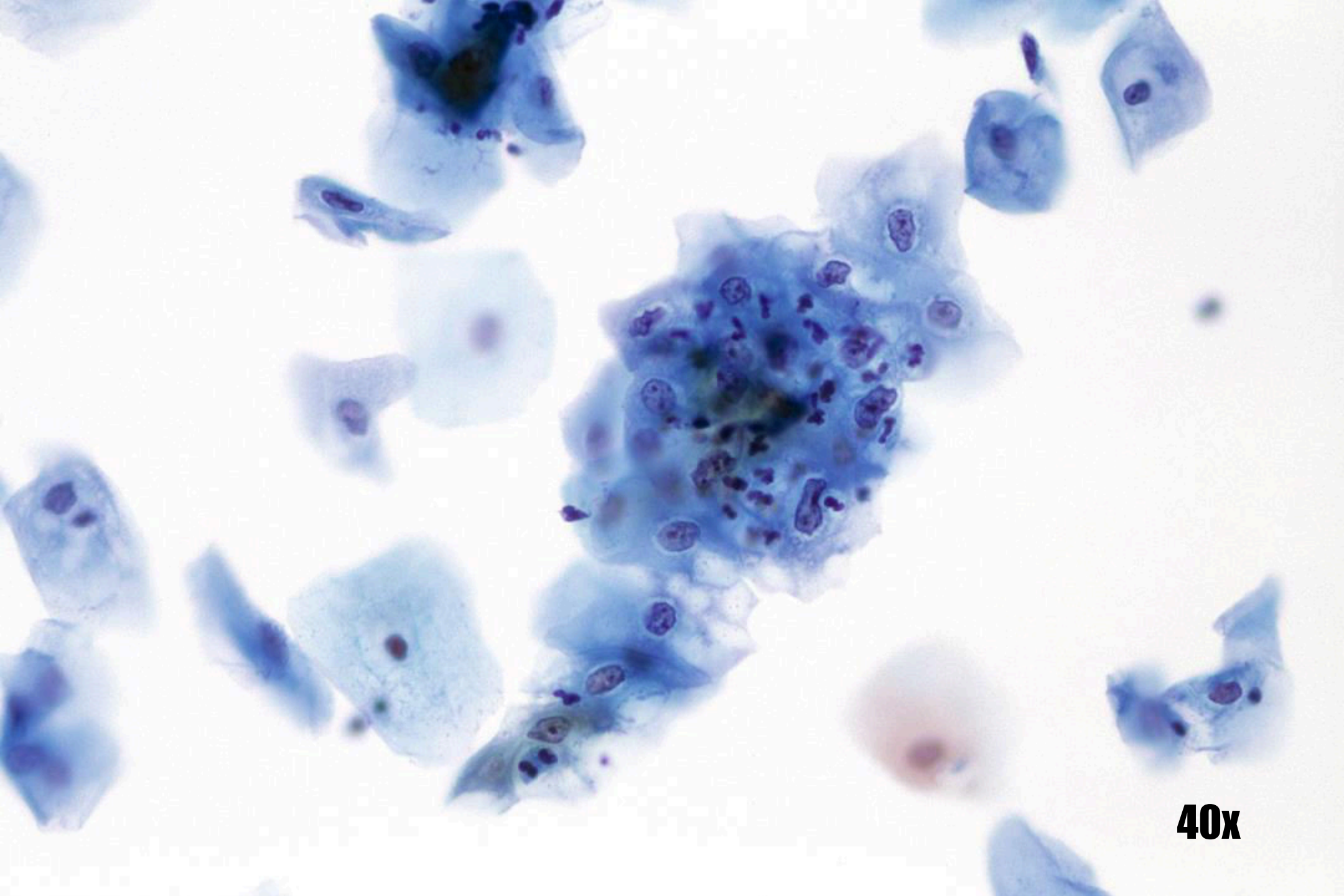
# Candida spp.

- Klassieke celklontering
- Reactieve squameuze cellen met ingesnoerde WBC's
- Onderscheid tussen slijmdraden en pseudohyfen



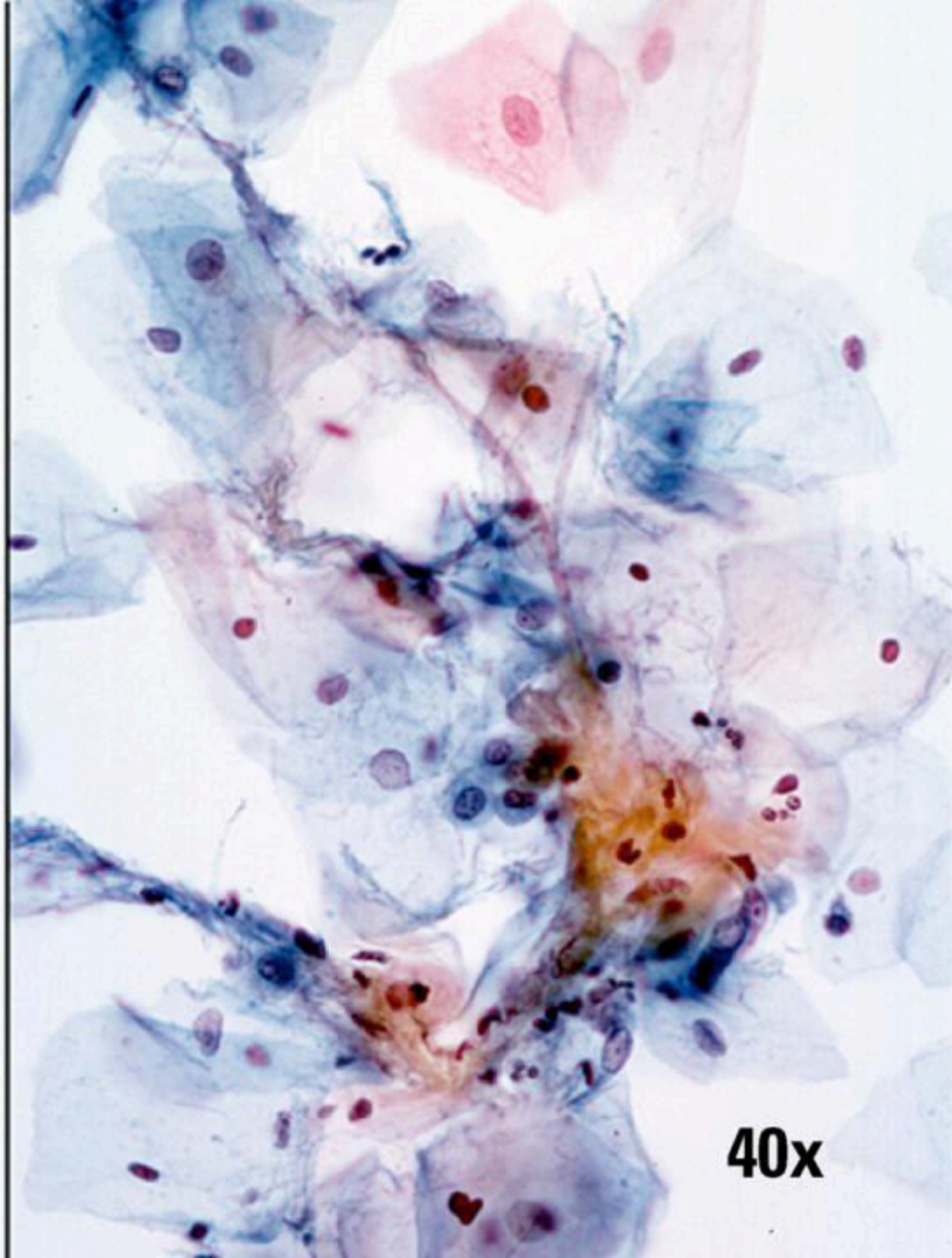
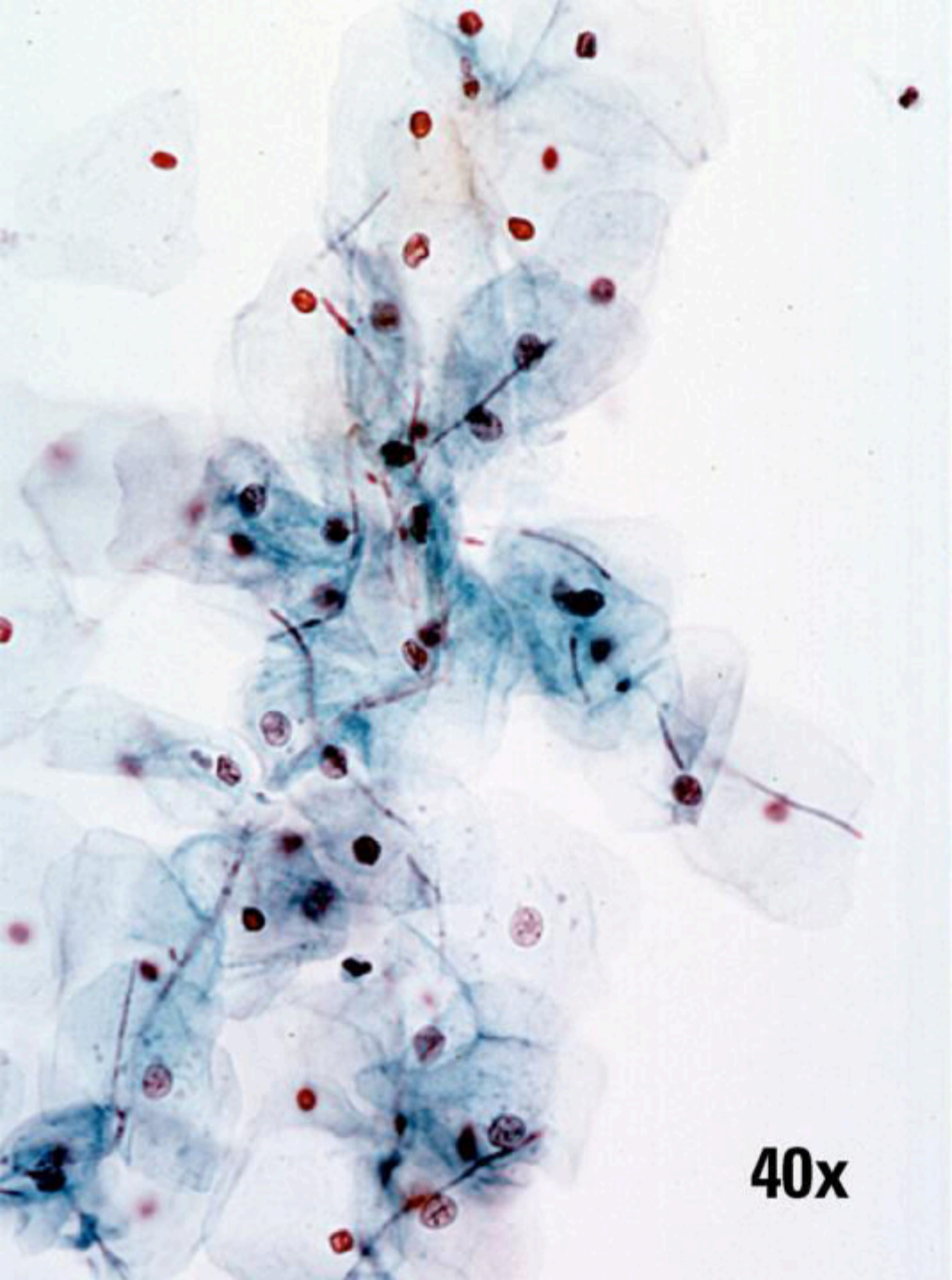
20x



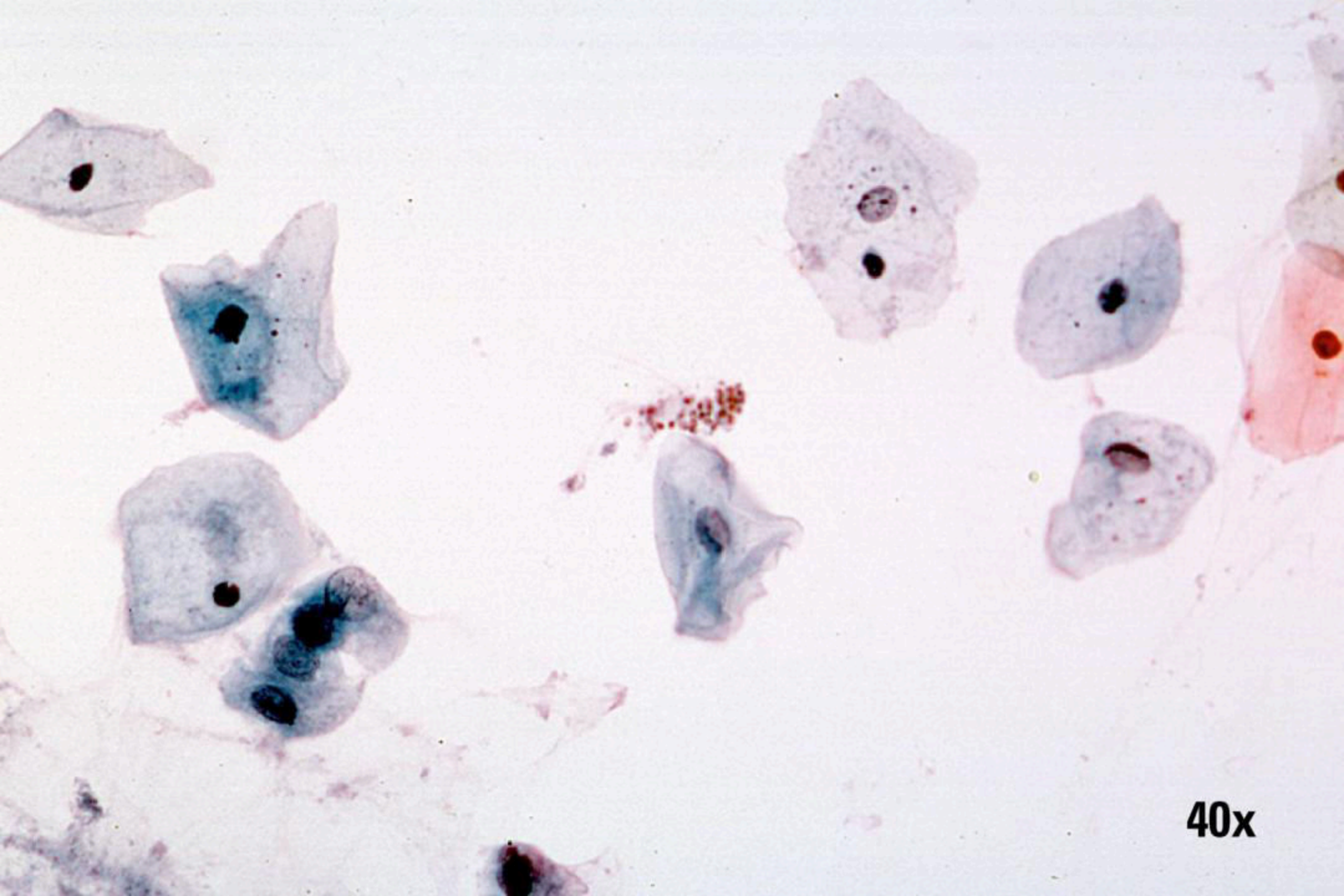


**40x**







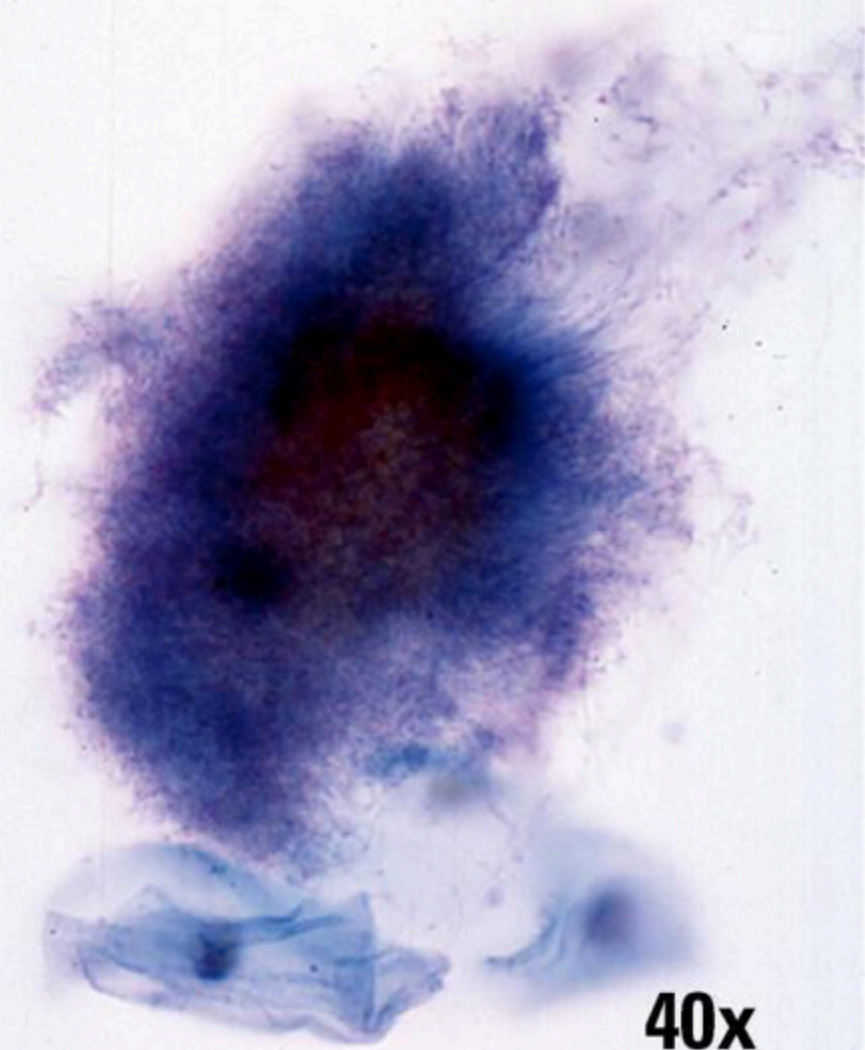


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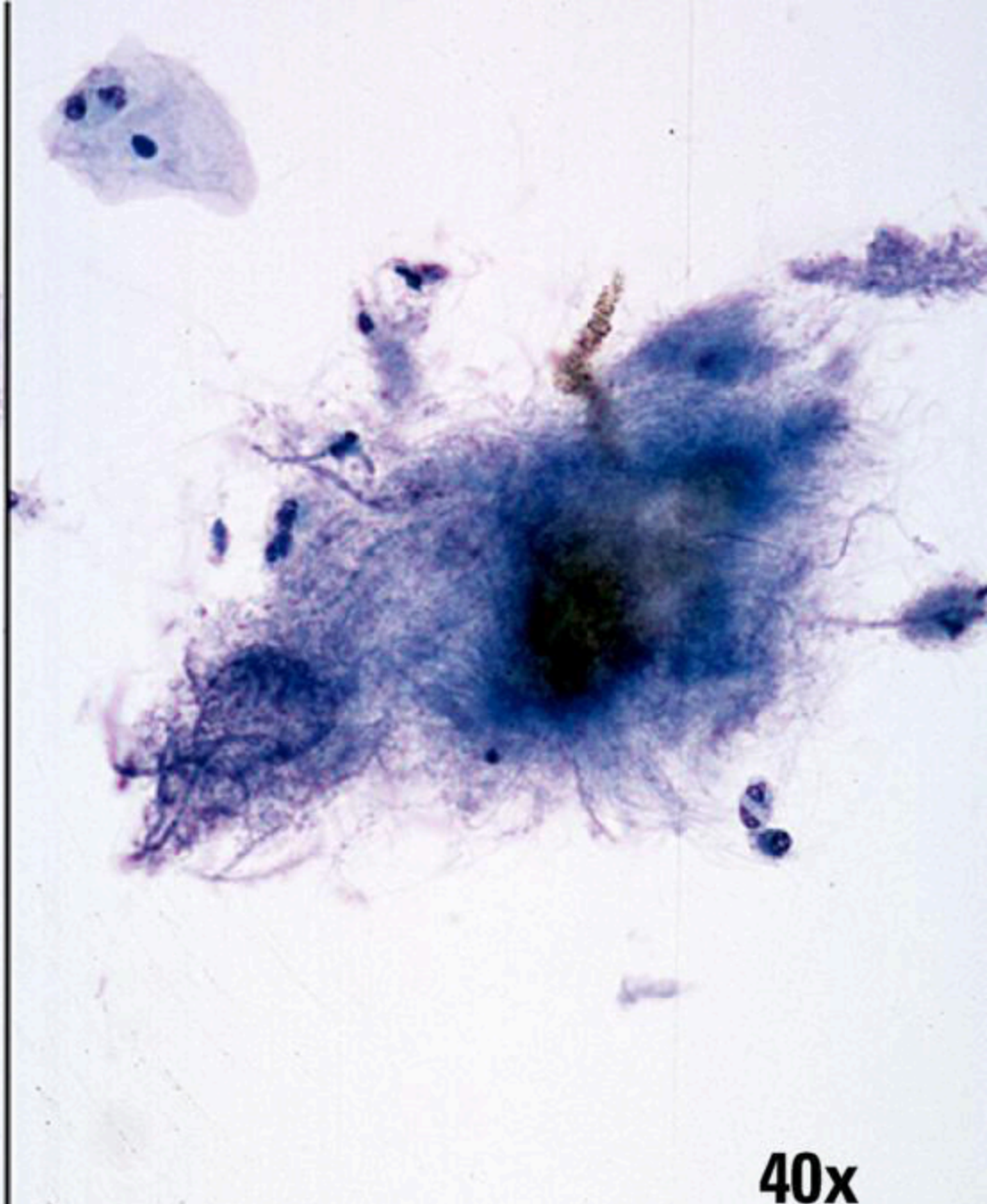
# Actinomyceten

- Georganiseerde clusters met vertakkende filamenteuze bacteriën
- Begeleidende blauwkleurende bacteriën





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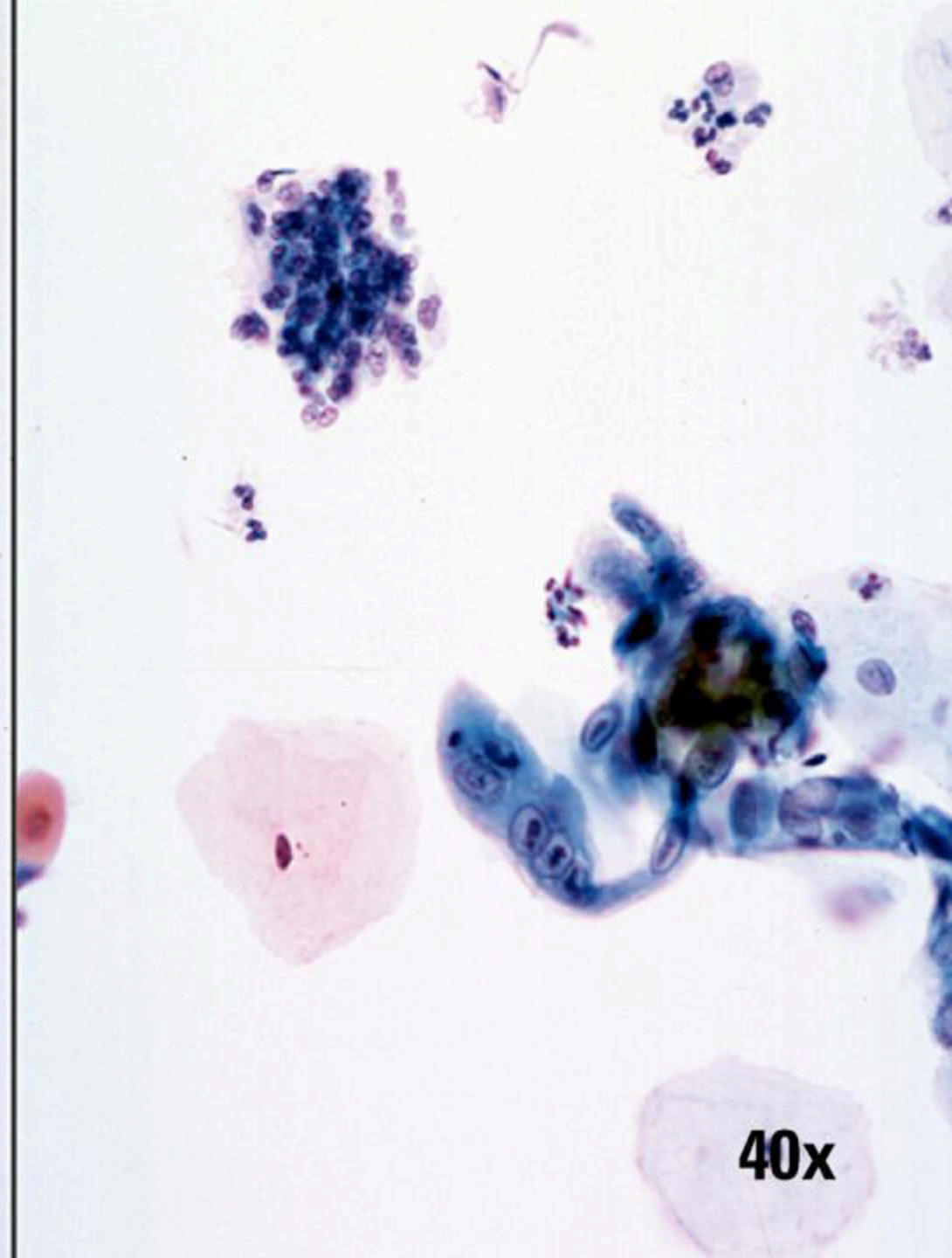
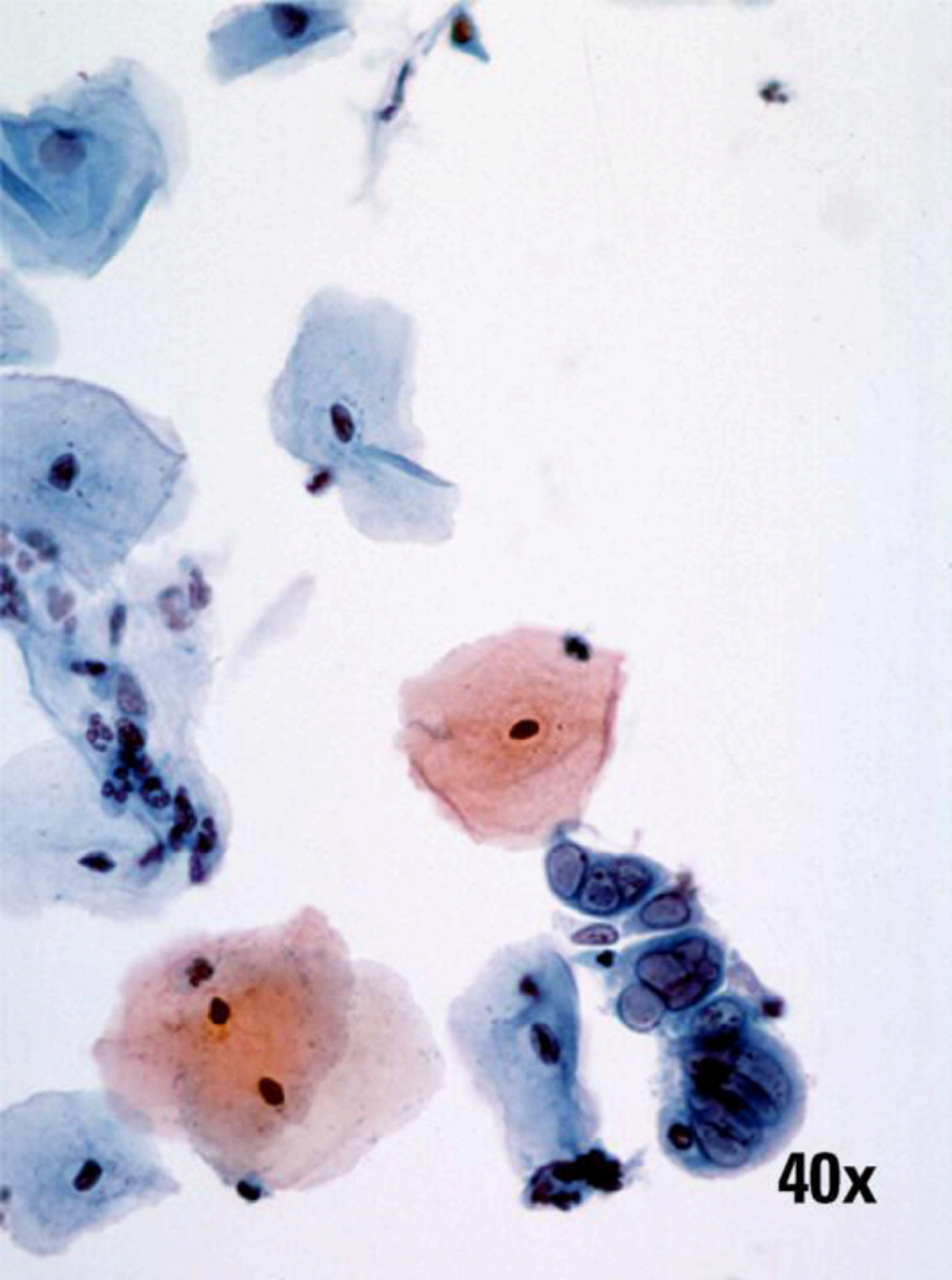


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# Herpes Simplex Virus

- Matglas kernen
- Meerkernig met nucleaire molding
- Klassieke eosinofiele nucleaire inclusies

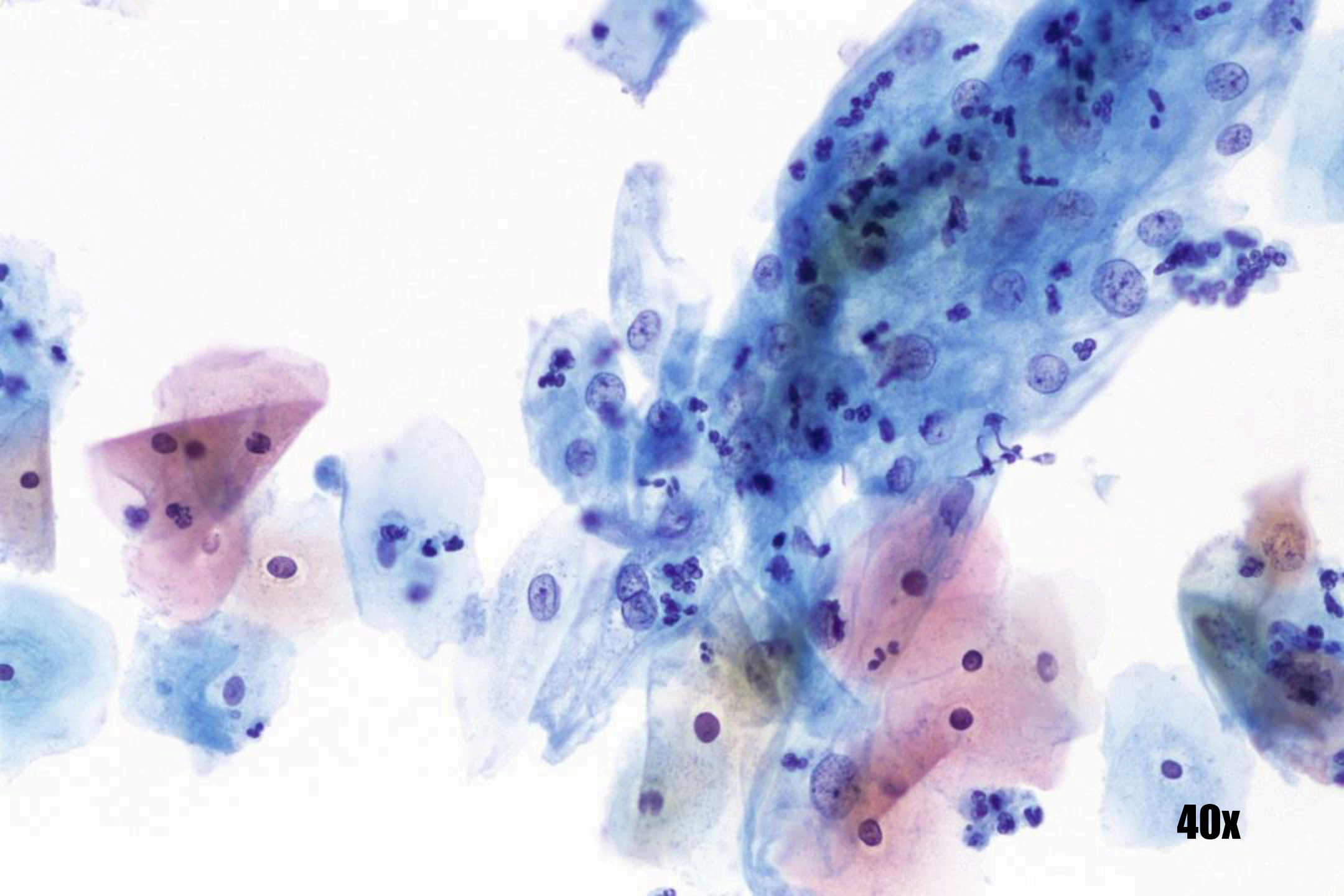






# Reactieve veranderingen door Ontsteking

- Lichte vergroting van de kern  
(2X intermediaire celkern)
- Perinucleaire halo's
- Cytoplasmatische vacuolisatie en  
bichromasie
- Geklonterde WBC's
- Beter celdetails



40x

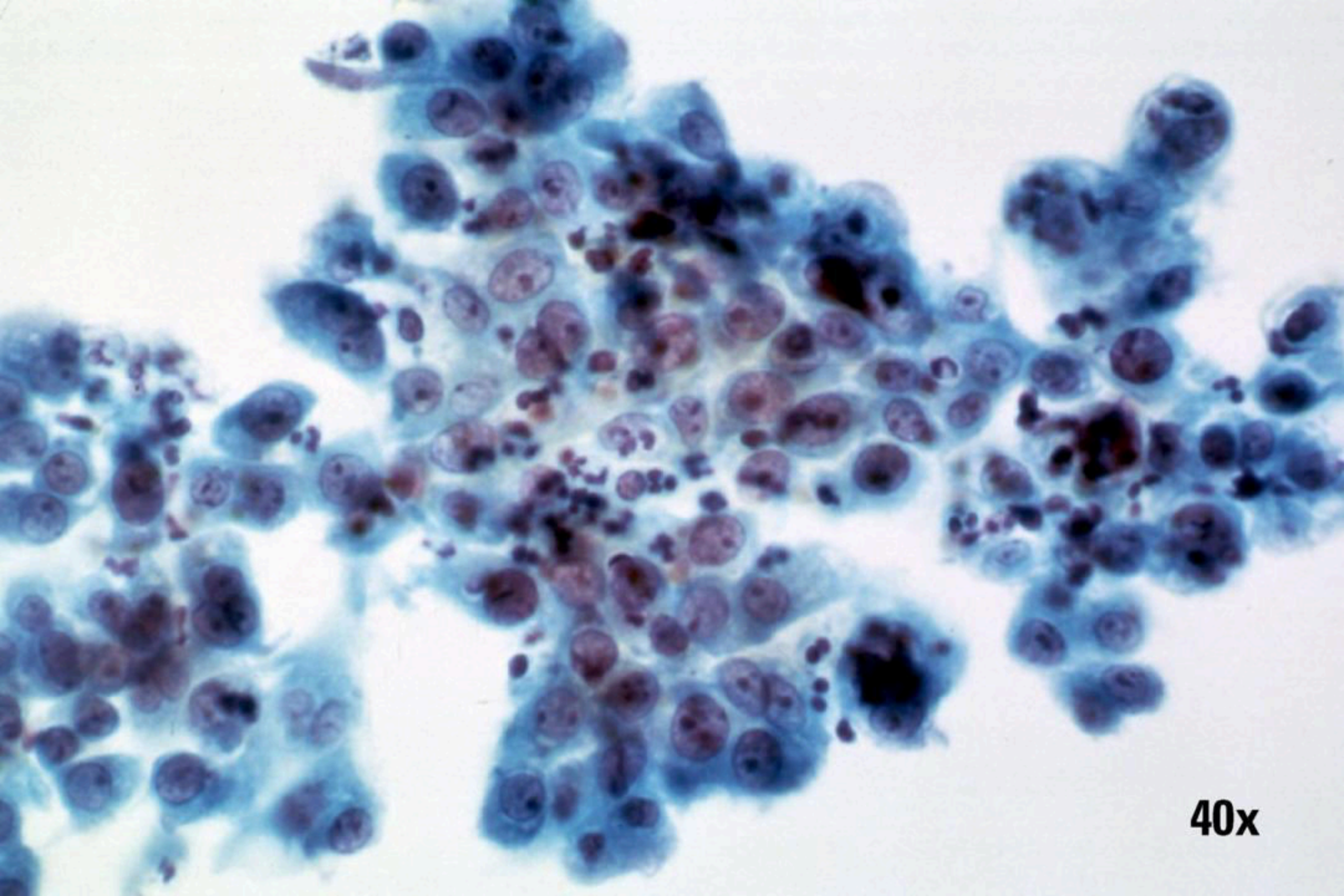
# Reactieve veranderingen

## Herstel

- Lagen cellen met ingesnoerde WBC's
- Lagen cellen zijn rond
- Grotere dieptescherpte
- Lagen cellen minder 'uitgetrokken'

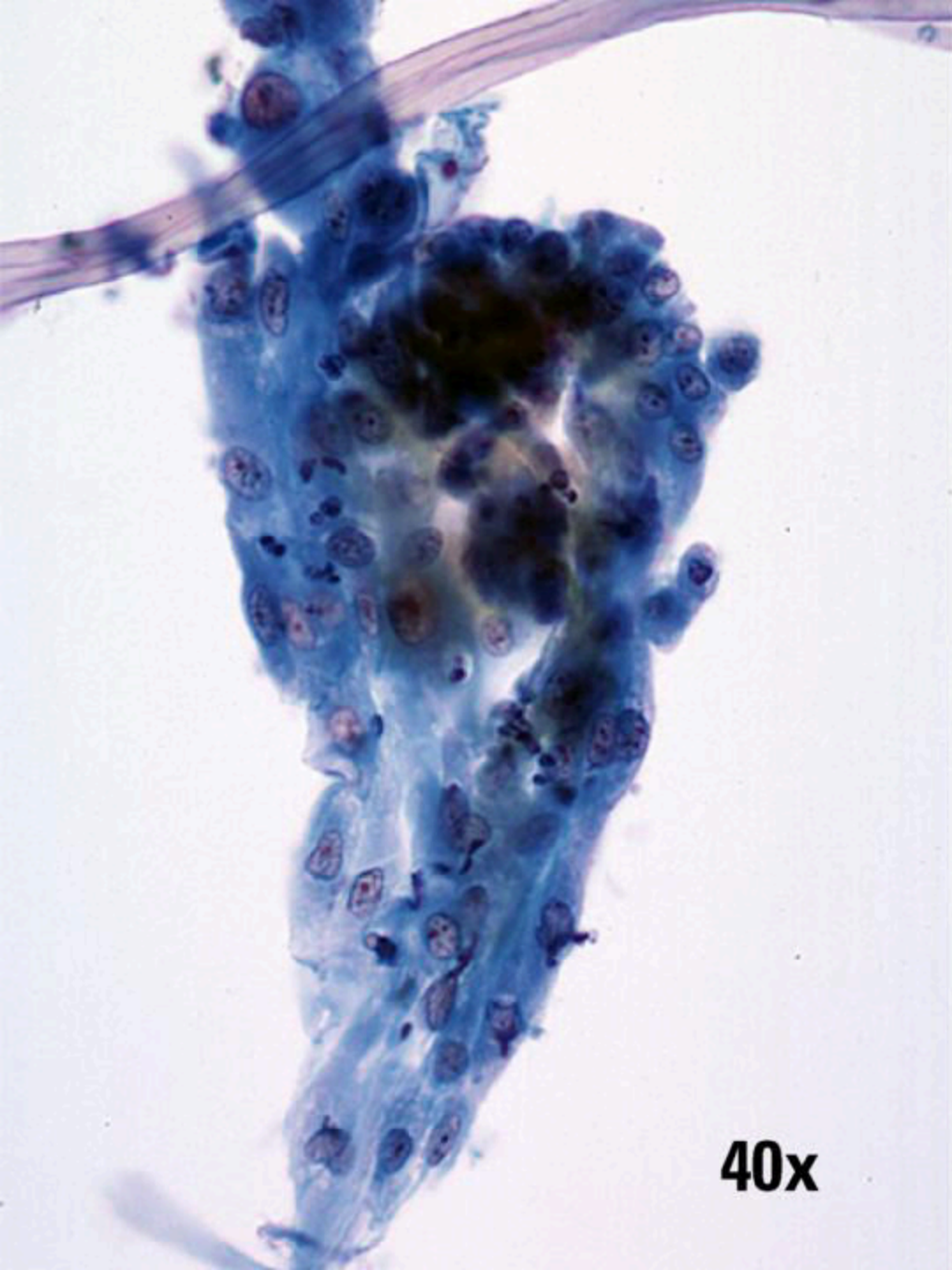




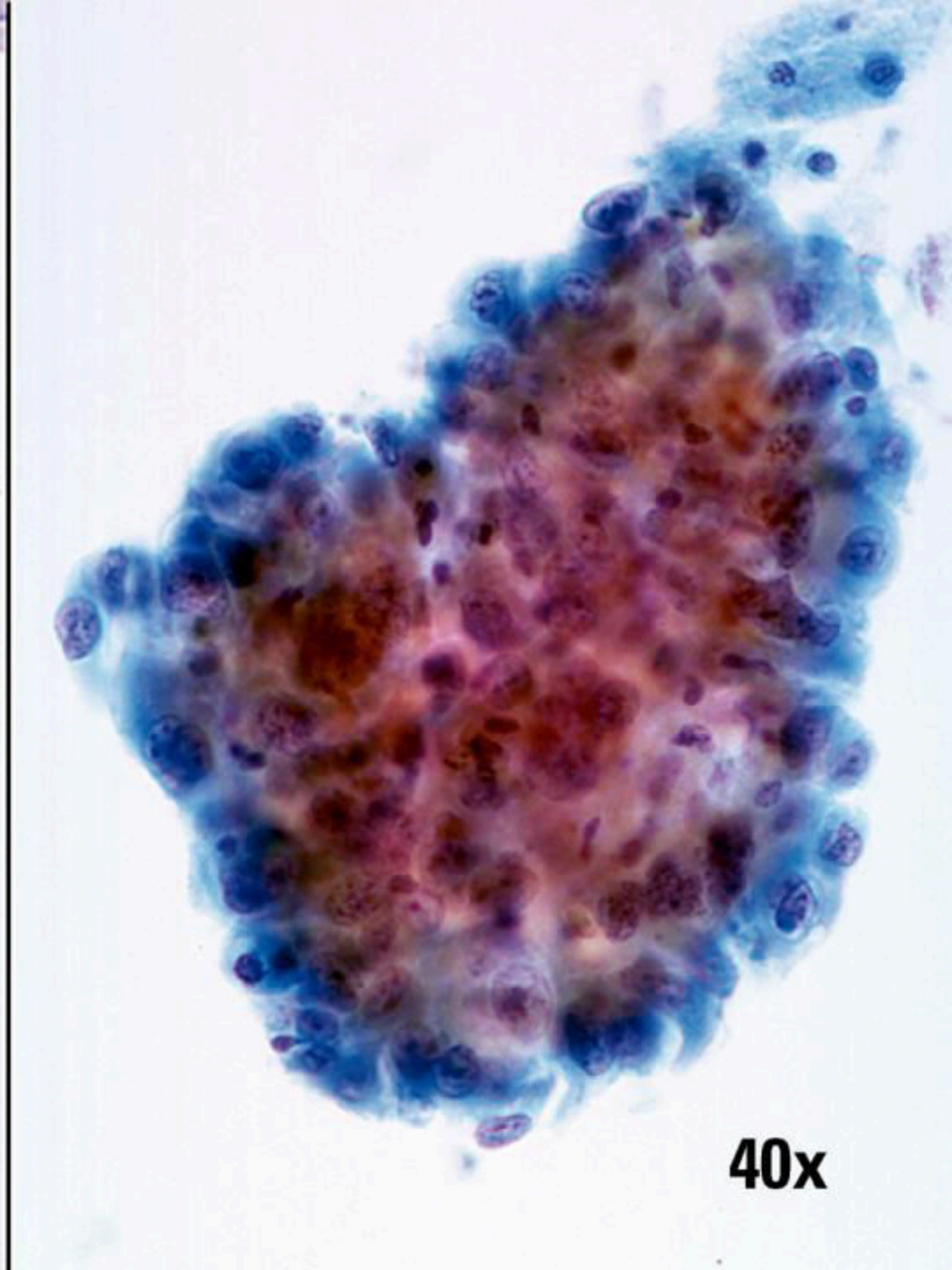


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# Einde Normale Morfologie

