

Myelodysplastický syndrom

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Laboratorní nálezy

- morfologické hodnocení:
 - leukocytů, erytrocytů, trombocytů
 - stanovení prstenčitých sideroblastů
 - počet blastů v PK a KD
- charakteristika dysplazie pro rozlišení typů MDS
(pozor na správné barvení preparátů – artefakty)
- cytopenie v krevním obrazu
(bez dysplastických změn by neměla mít návaznost na MDS)

Laboratorní nálezy - PK

■ erytrocyty:

anémie, anizocytóza, poikilocytóza, polychromázie, bazofilní tečkování, H.-J. tělíska, Papenheimerova tělíska, Cabottovy prstence, dysplastické rysy NRBC, ↓ RETIC

■ leukocyty:

obvykle ↓NE, hypo/hyper(>5segmentů) - segmentace NE,
pseudo-Pelgerova-Huëtova anomálie,
hypo/hyper/nerovnoměrná-granulace NE, vakuolizace NE,
evt. přetrvávající bazofílie cytoplazmy NE,
abnormální mono/promonocyty

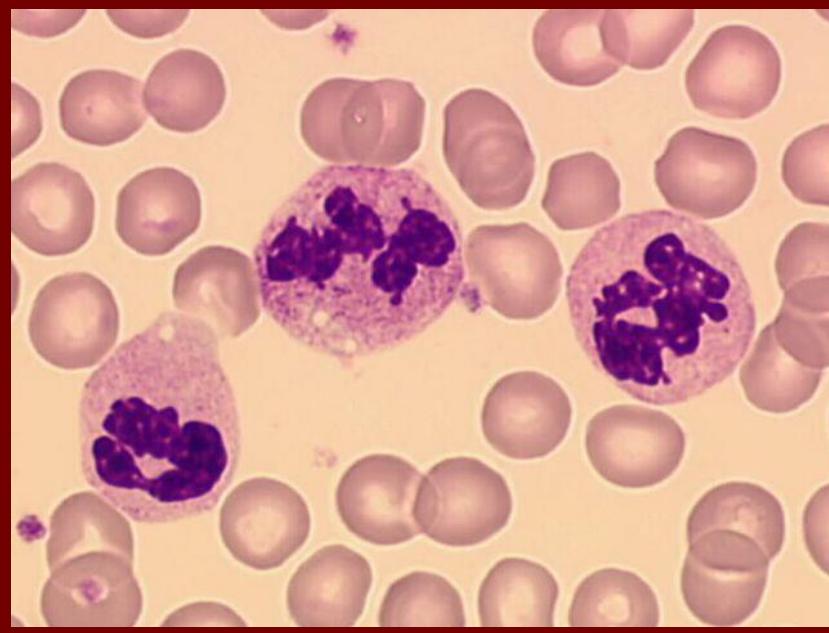
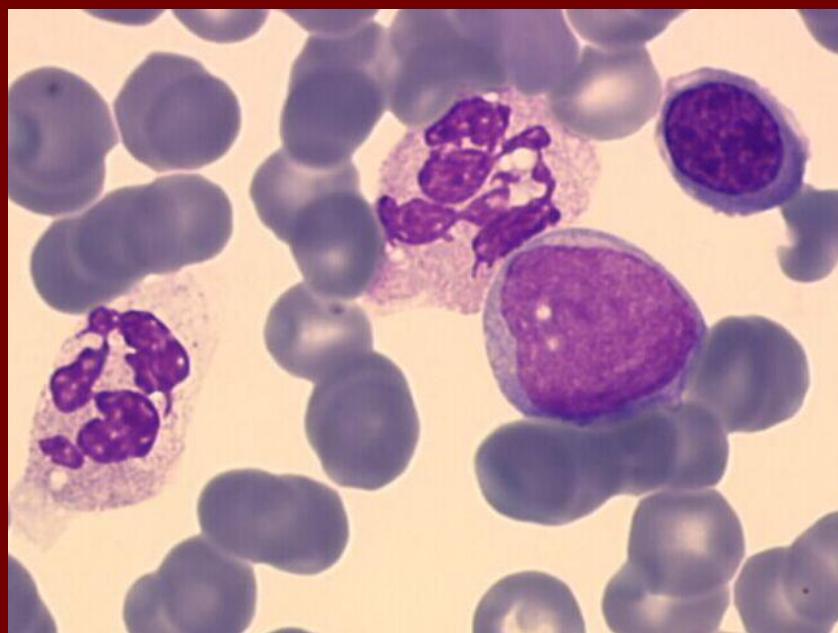
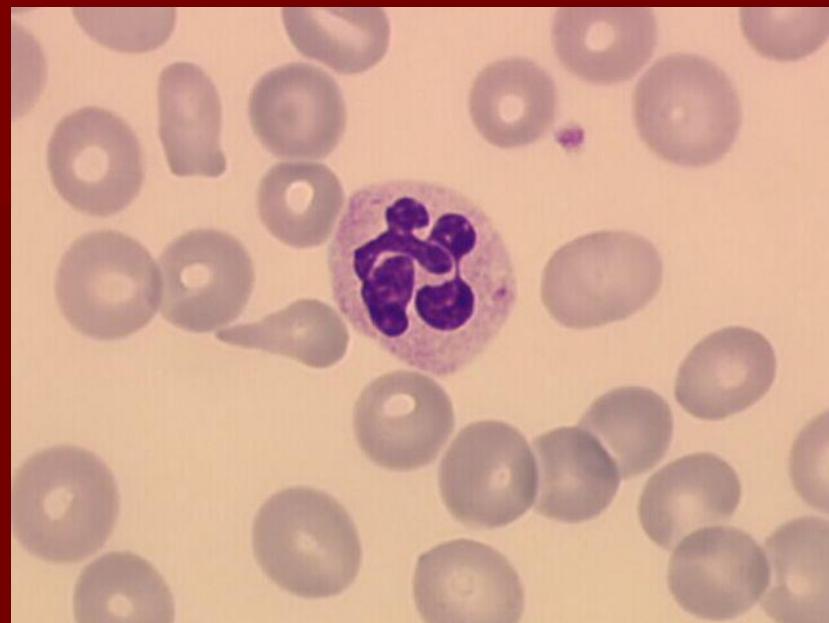
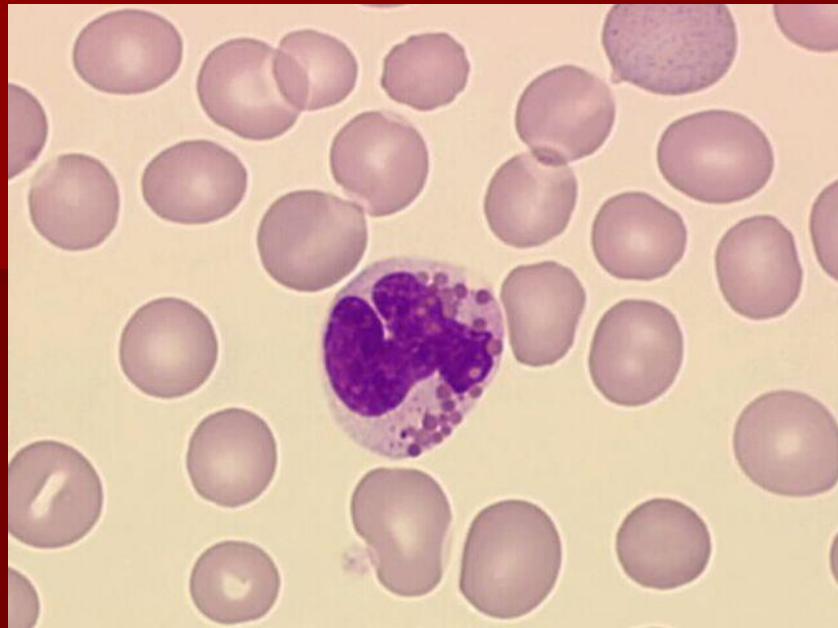
■ trombocyty:

většinou ↓PLT, anizocytóza, makrotrombocyty,
hypogranulární PLT, fragmenty cytoplazmy MGK,
mikro MGK, holá jádra MGK

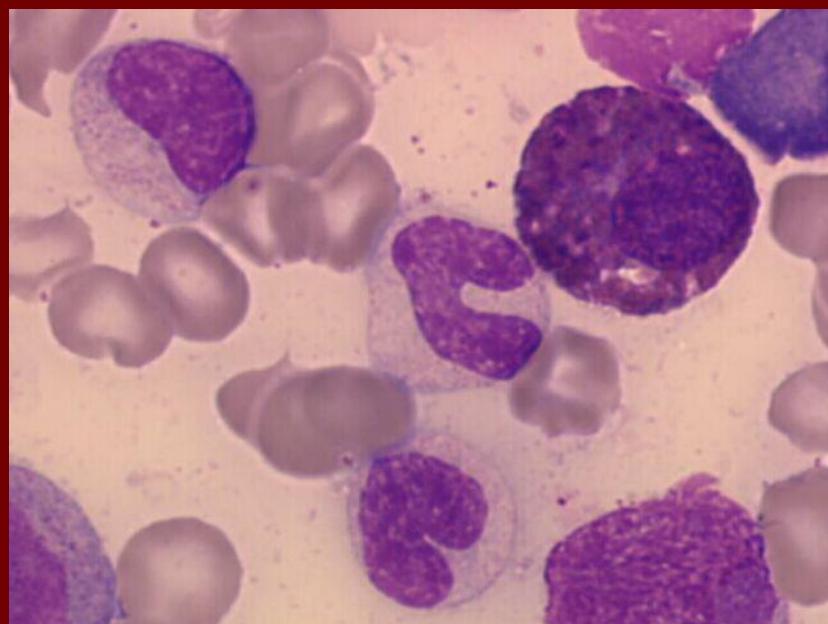
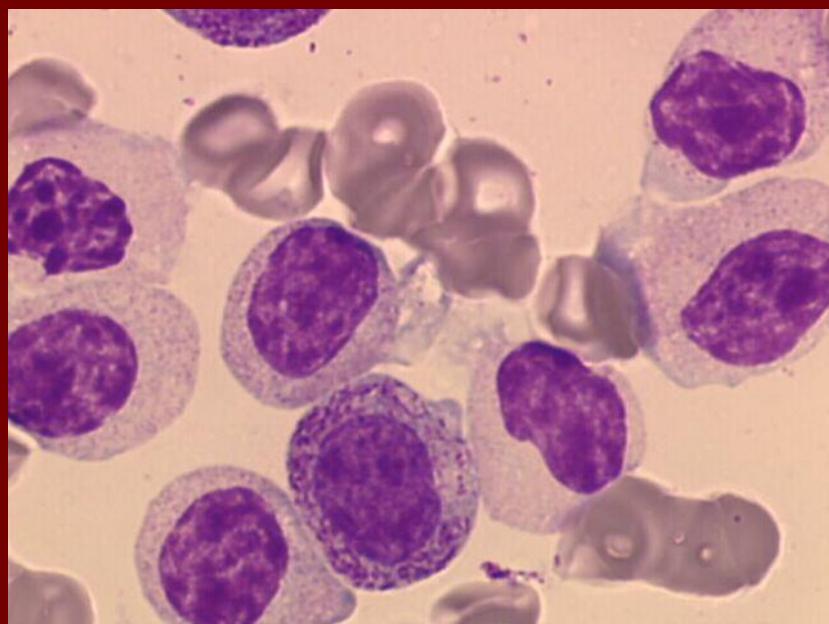
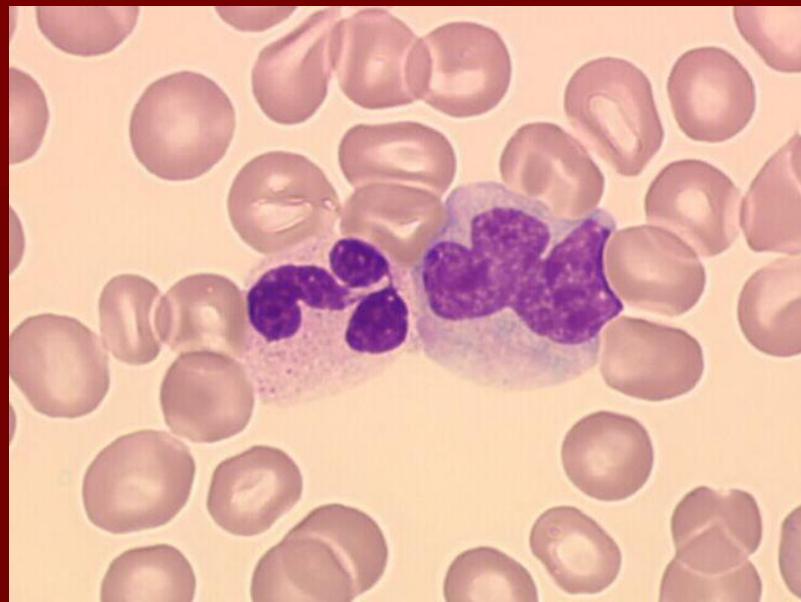
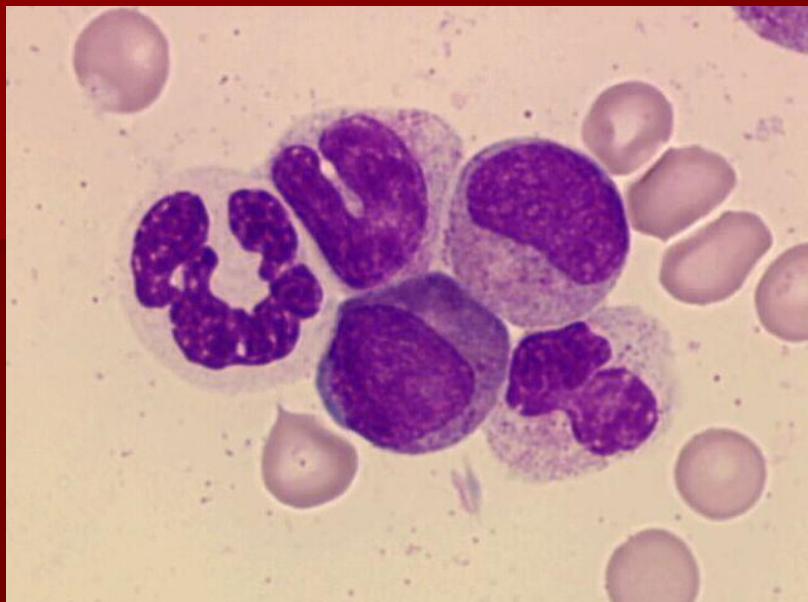
Laboratorní nálezy - KD

- dyserytropoéza:
podobné dysplatické změny jako v PK, dále
 - jádro: mezijaderné můstky, karyorexe, vícejadernost, megaloidní rysy, zneokrouhlení jádra
 - cytoplazma: vakuolizace, nerovnoměrná barvitelnost
 - PAS pozitivita
- dysgranulopoéza:
podobné dysplatické změny jako v PK, dále
 - asynchronie vyzrávání jádra a cytoplazmy, Auerovy tyče, pseudo-Chédiakova-Higashiho granula
 - deficit myeloperoxidázy v neutrofilech
- dysmegakaryopoéza:
mikro/obrovské MGK, hypolobularizace MGK, mnohojadernost MGK, vakuolizace, hypogranulace MGK

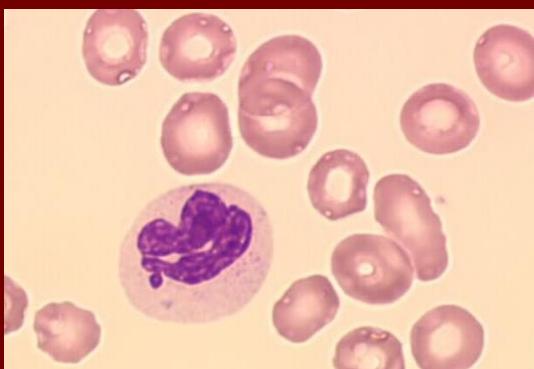
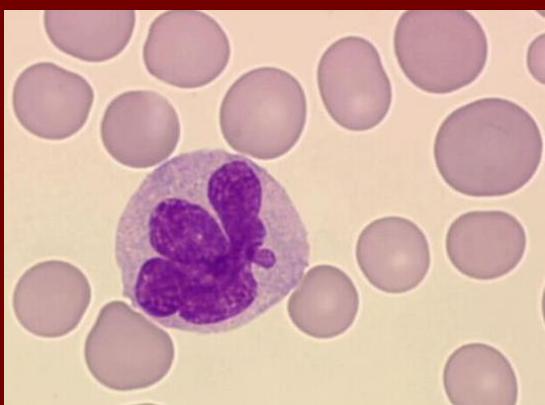
MDS – hypersegmentace, hypogranulace



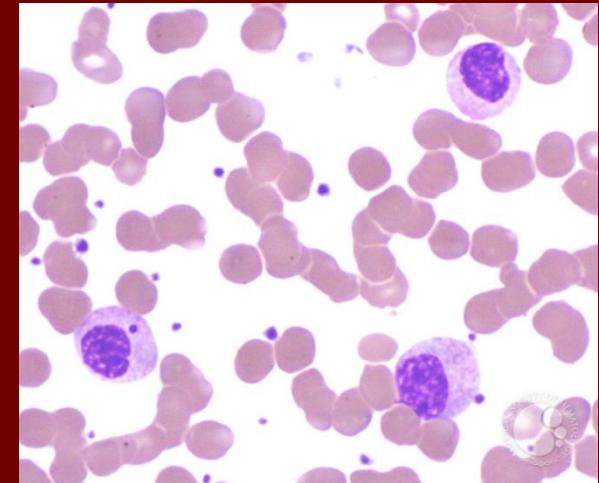
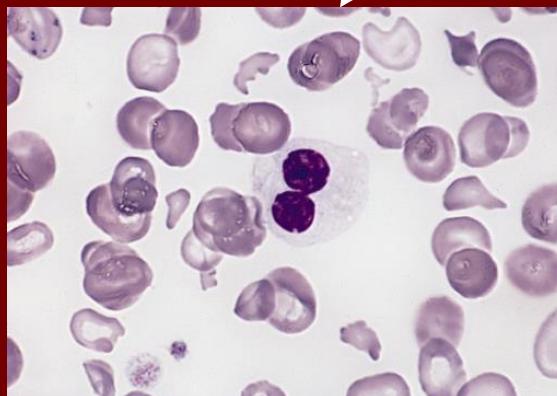
MDS – hypogranulace, hyposegmentace



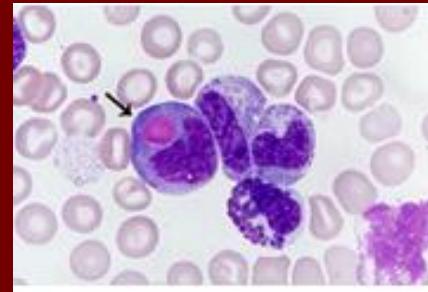
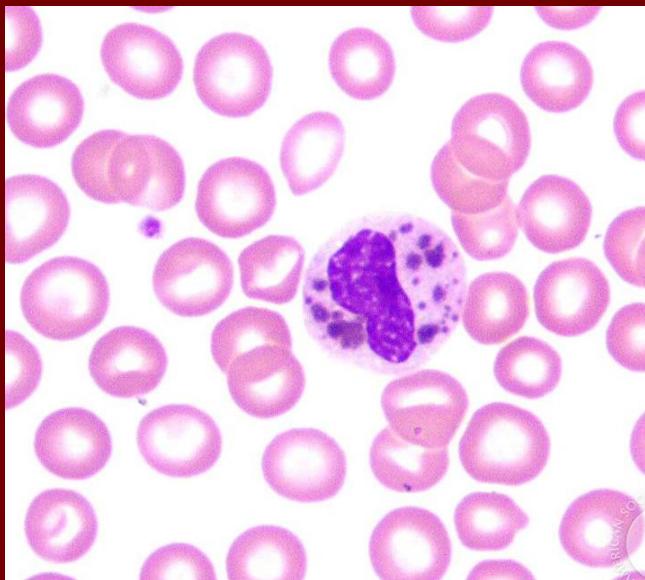
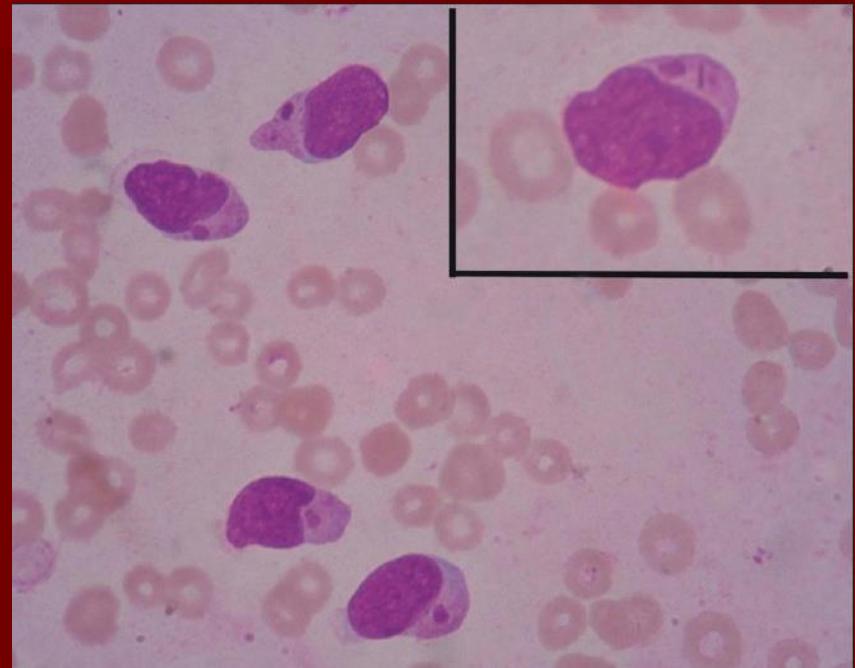
MDS – hypogranulace, hyposegmentace



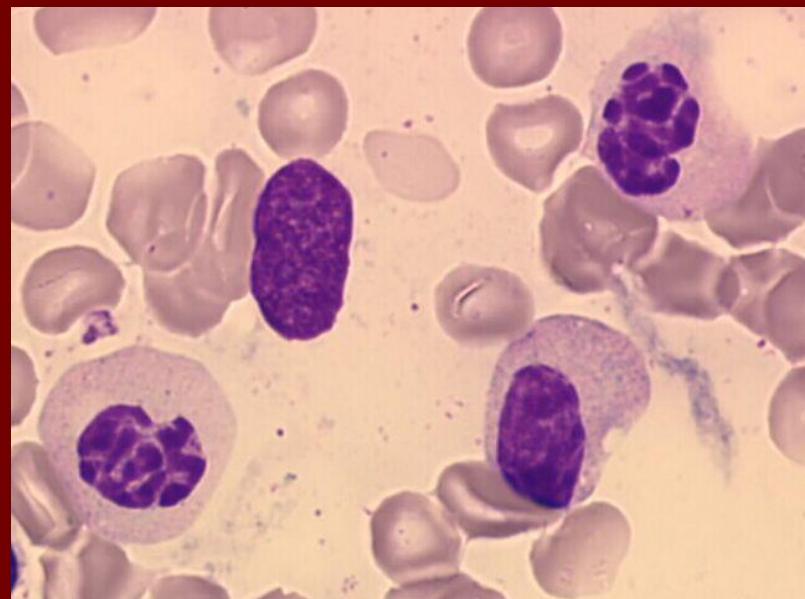
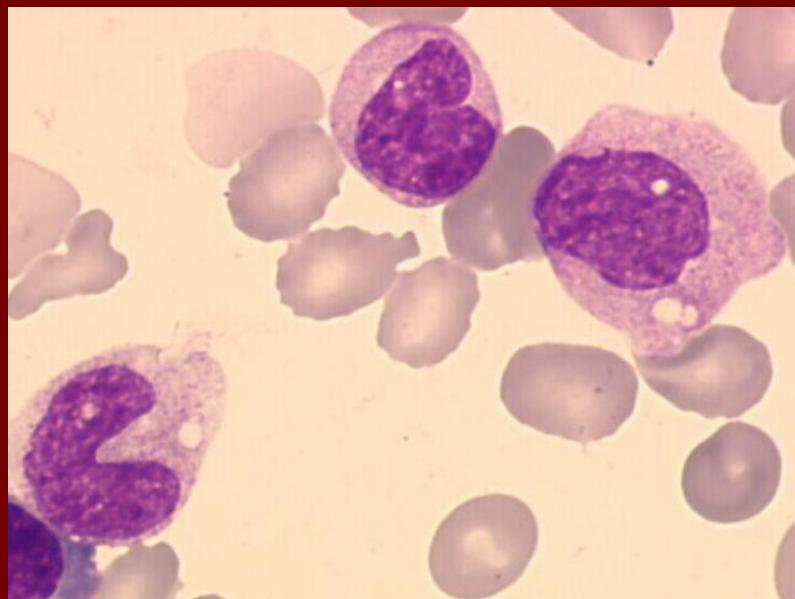
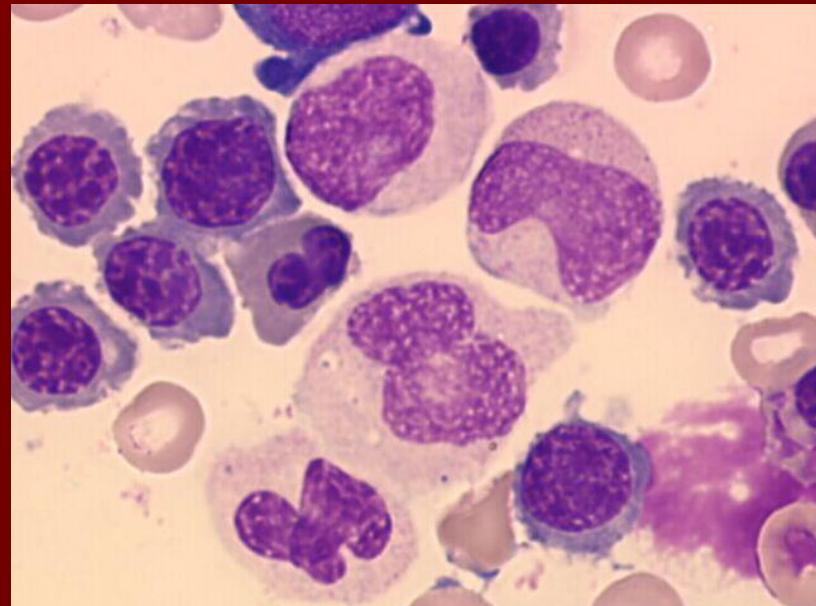
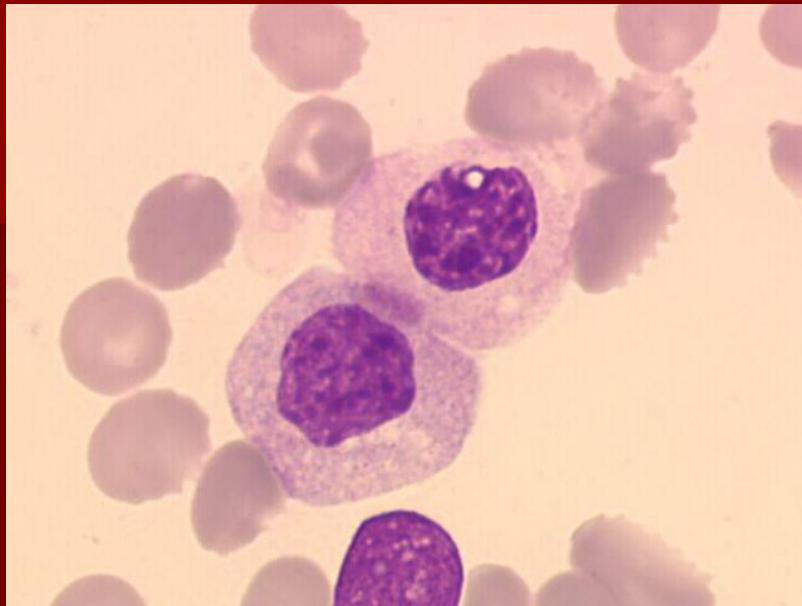
pseudo Pelger- Hüetova anomálie
(hyposegmentace neutrofilů)



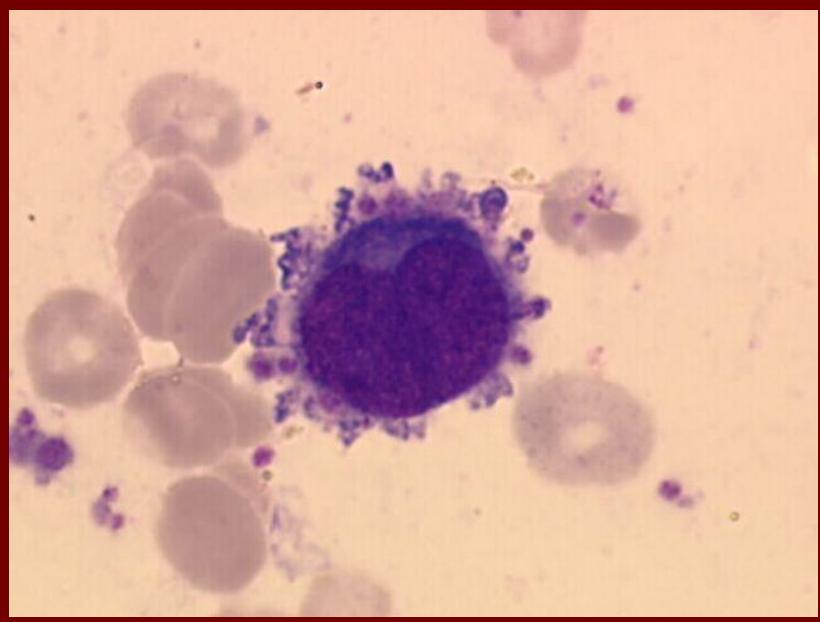
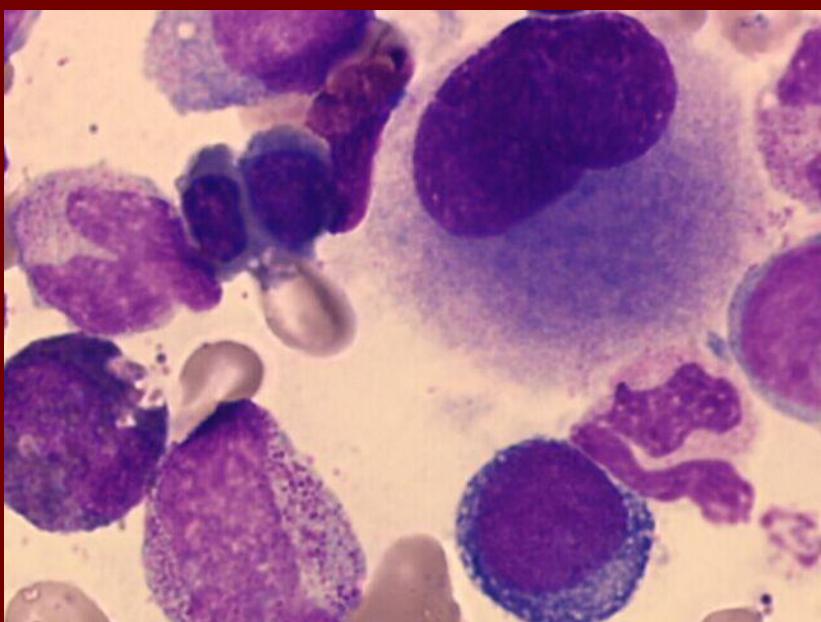
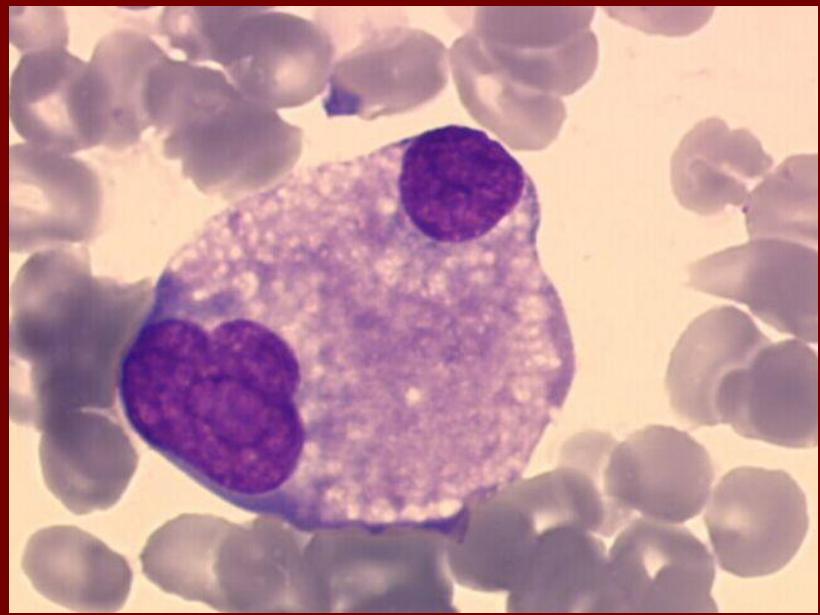
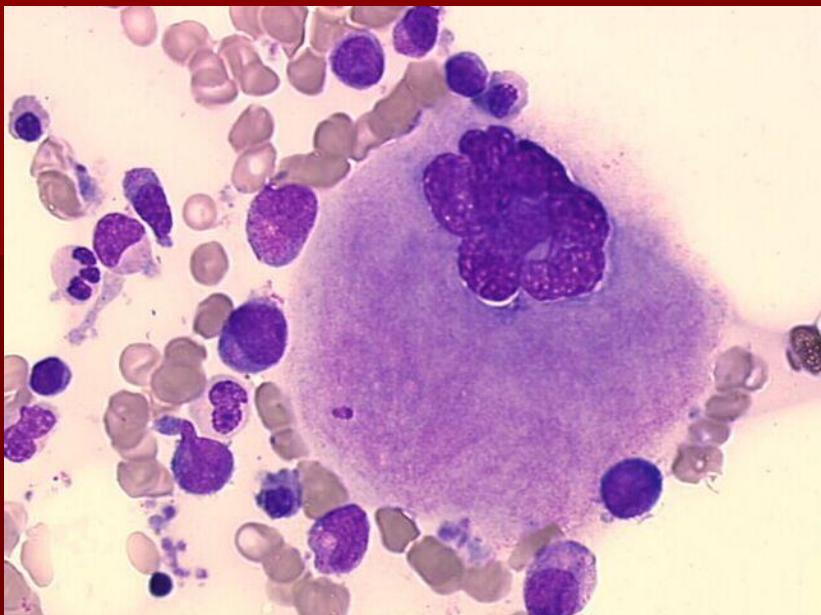
pseudo-Chédiakova-Higashiho granula

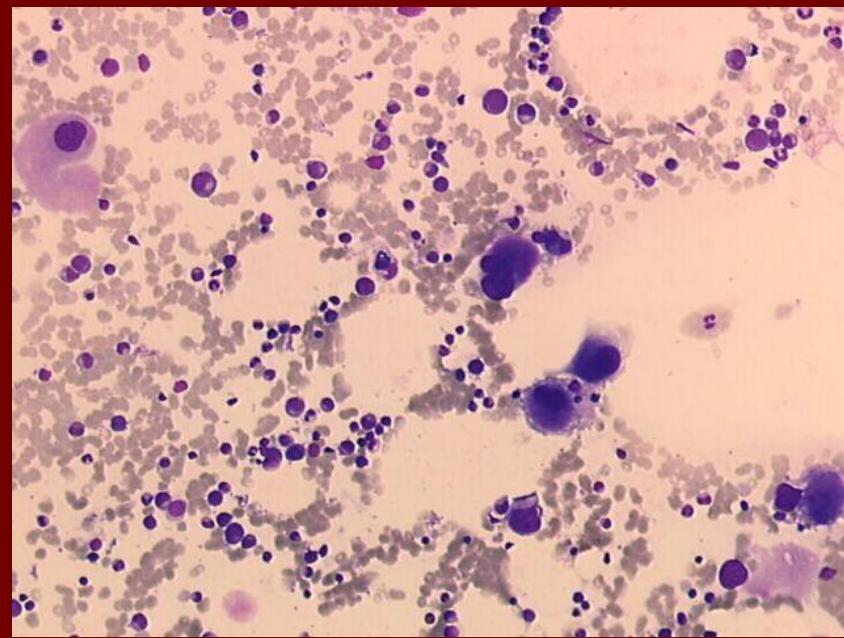
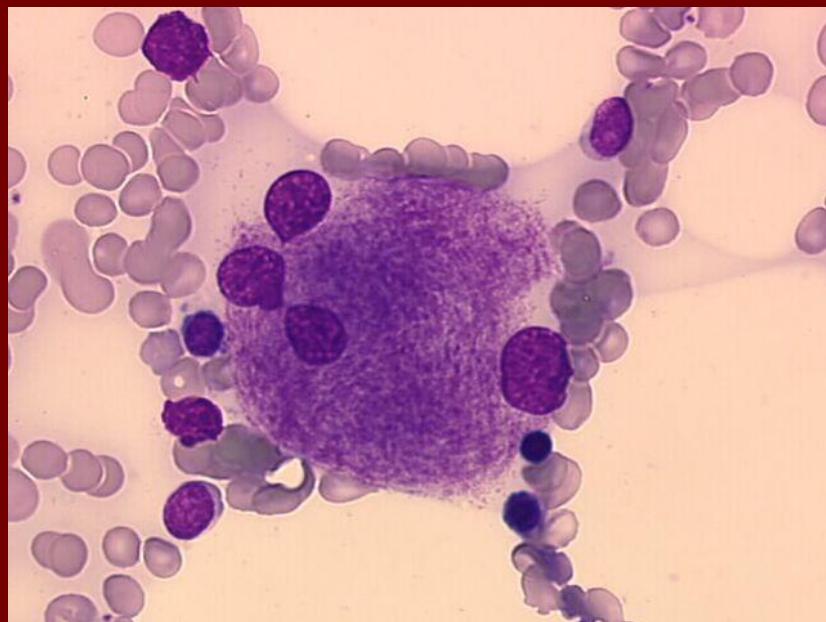


MDS – hypogranulace, hyposegmentace



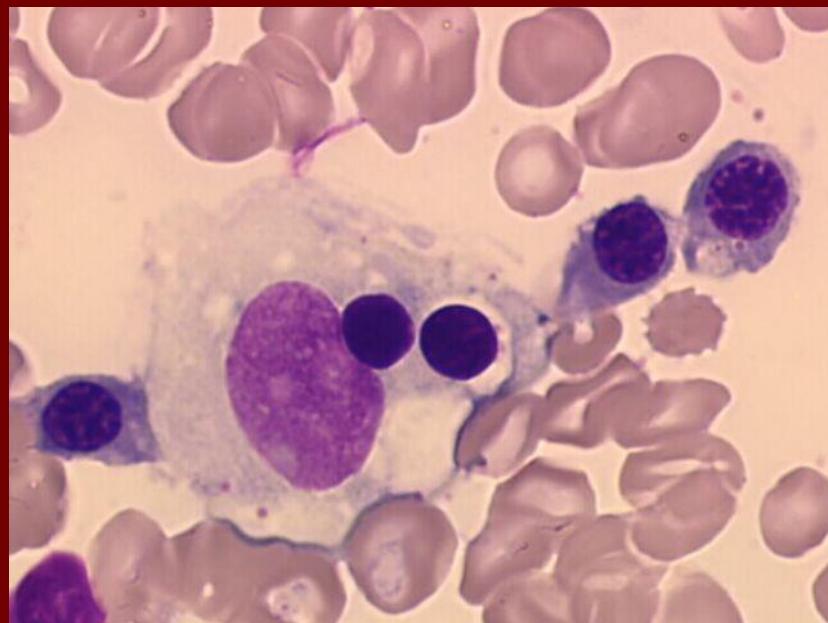
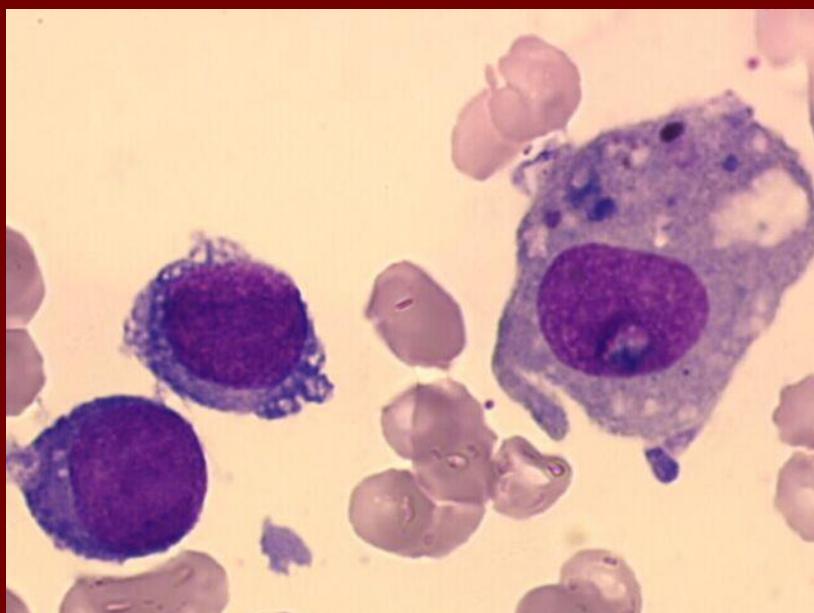
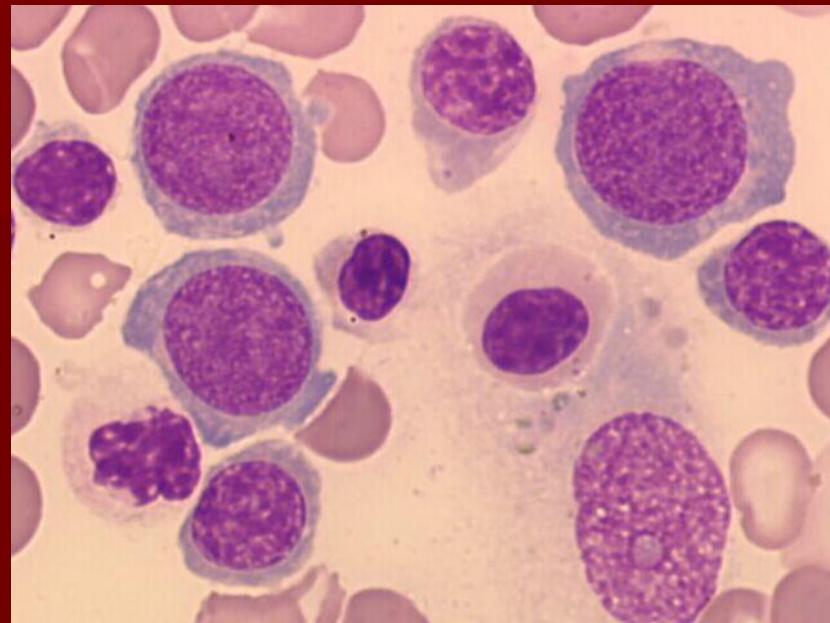
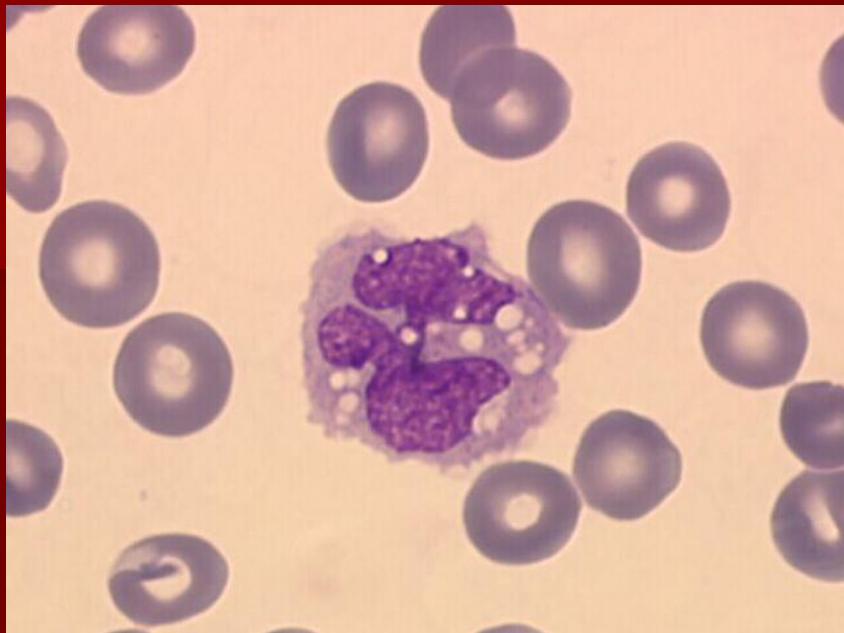
MDS - megakaryocyte



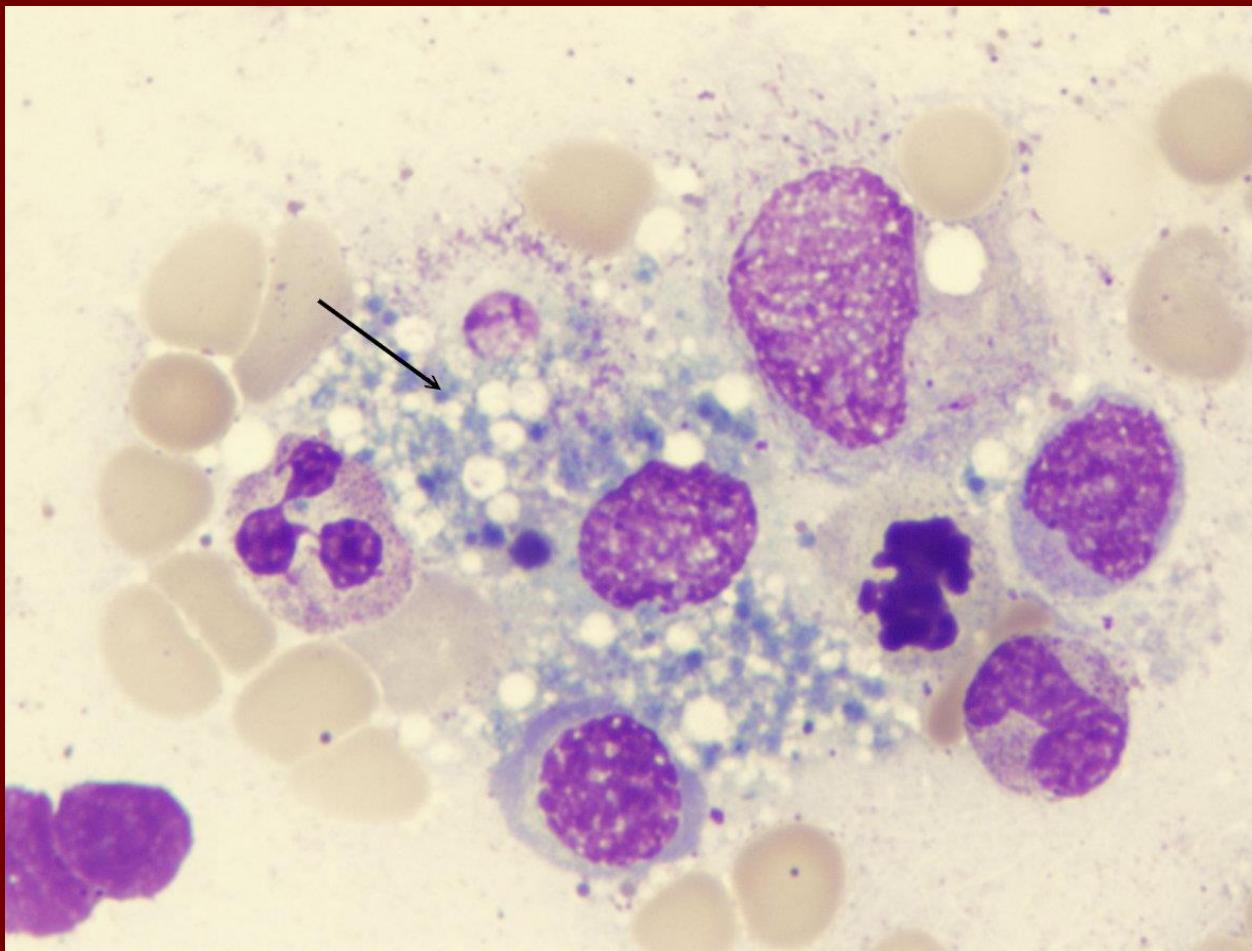


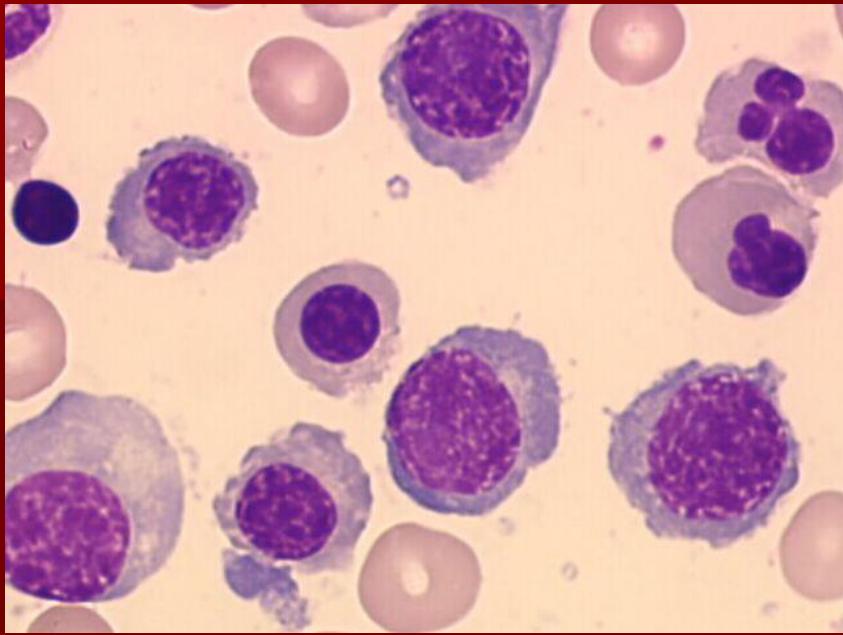
MDS - megakaryocyty

MDS - makrofág

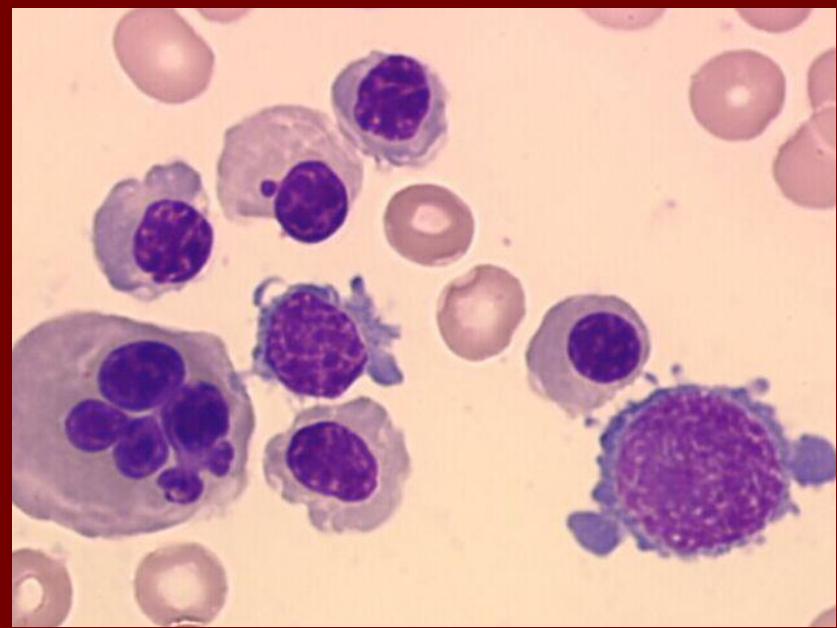


Kostní dřeň – fagocytující makrofág





MDS – jaderné erytrocyty



Dyserythropoéza

