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Introduction

Multiple Myeloma is a disseminated malignancy of monoclonal plasma cells that account for 10% of all hematological cancer. It is potentially curable when it presents as solitary plasmacytoma of bone or extramedullary plasmacytoma. It is highly treatable, but rarely curable in systemic multiple myeloma.

Several synonyms have been applied to plasma cell neoplasm:

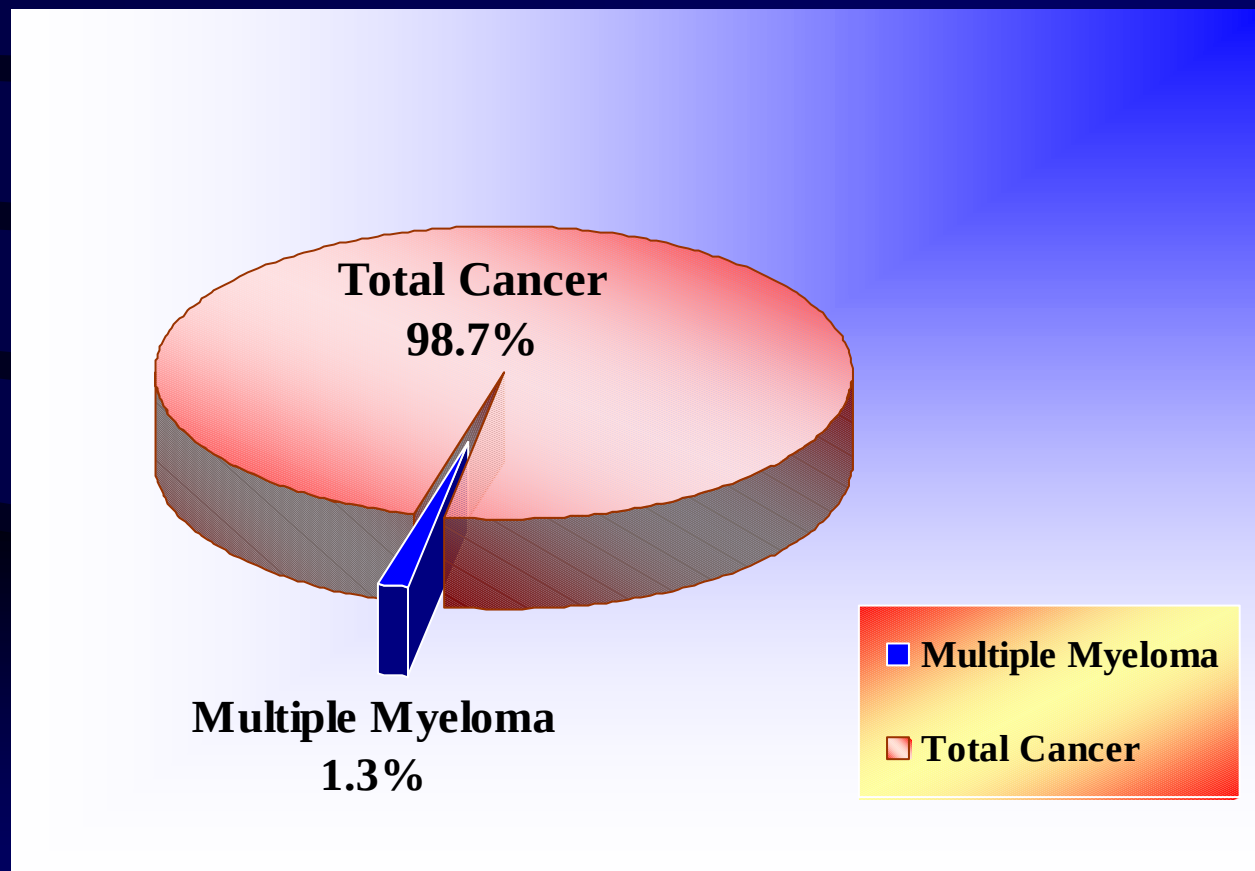
↳ Dysproteinemia ↳ Immunoglobulinemias

↳ Gammopathies ↳ Plasma cell dyscrasias

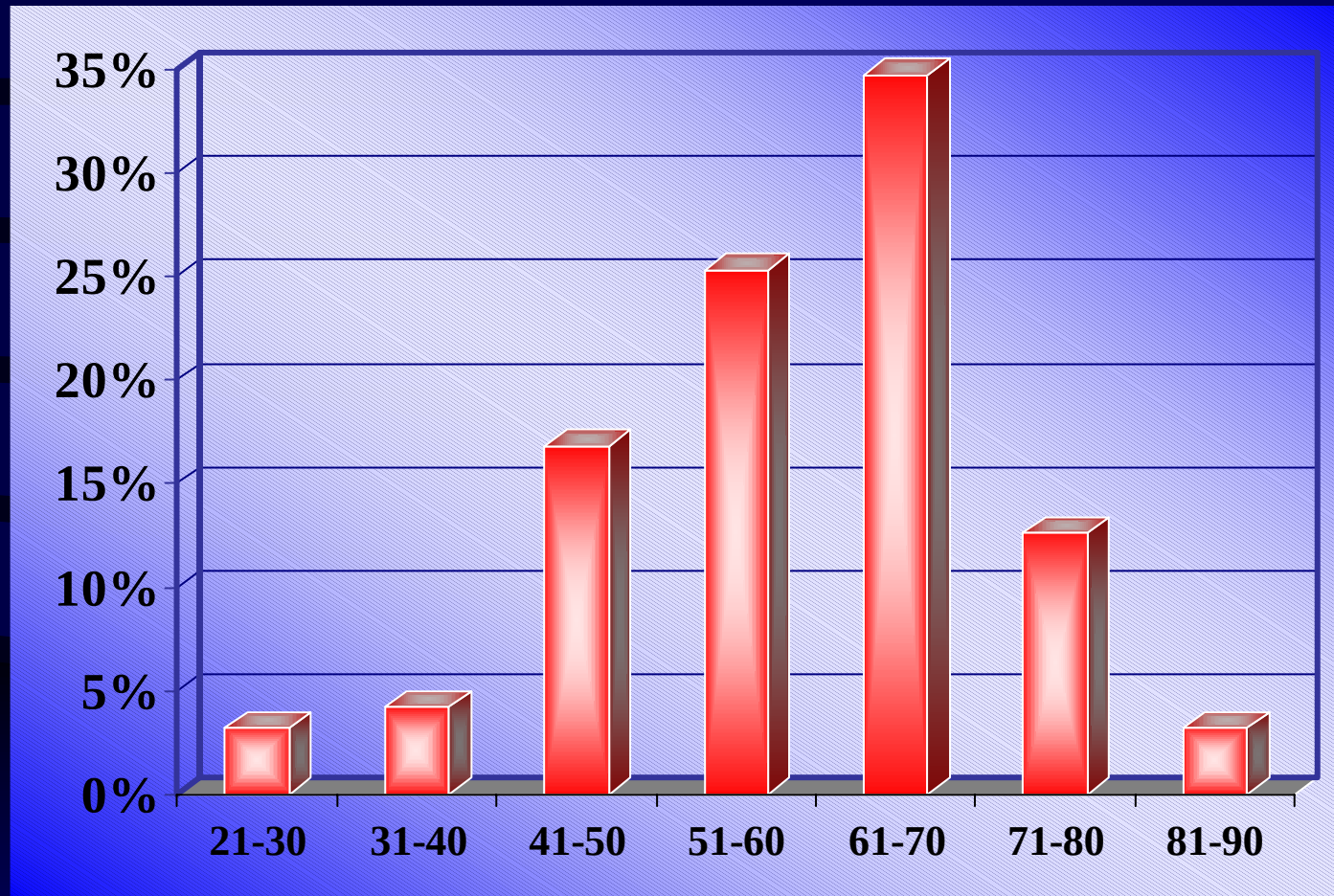
The most important of malignant plasma cell neoplasm is multiple Myeloma.

Retrospective study of 95 patients, who were registered in oncology clinic in Tripoli medical center, and central hospitals in the period between 1991 – 2000.

Multiple Myeloma in Relation to Total Cancer in Tripoli in 1991-2000



Age of Patients have Multiple Myeloma

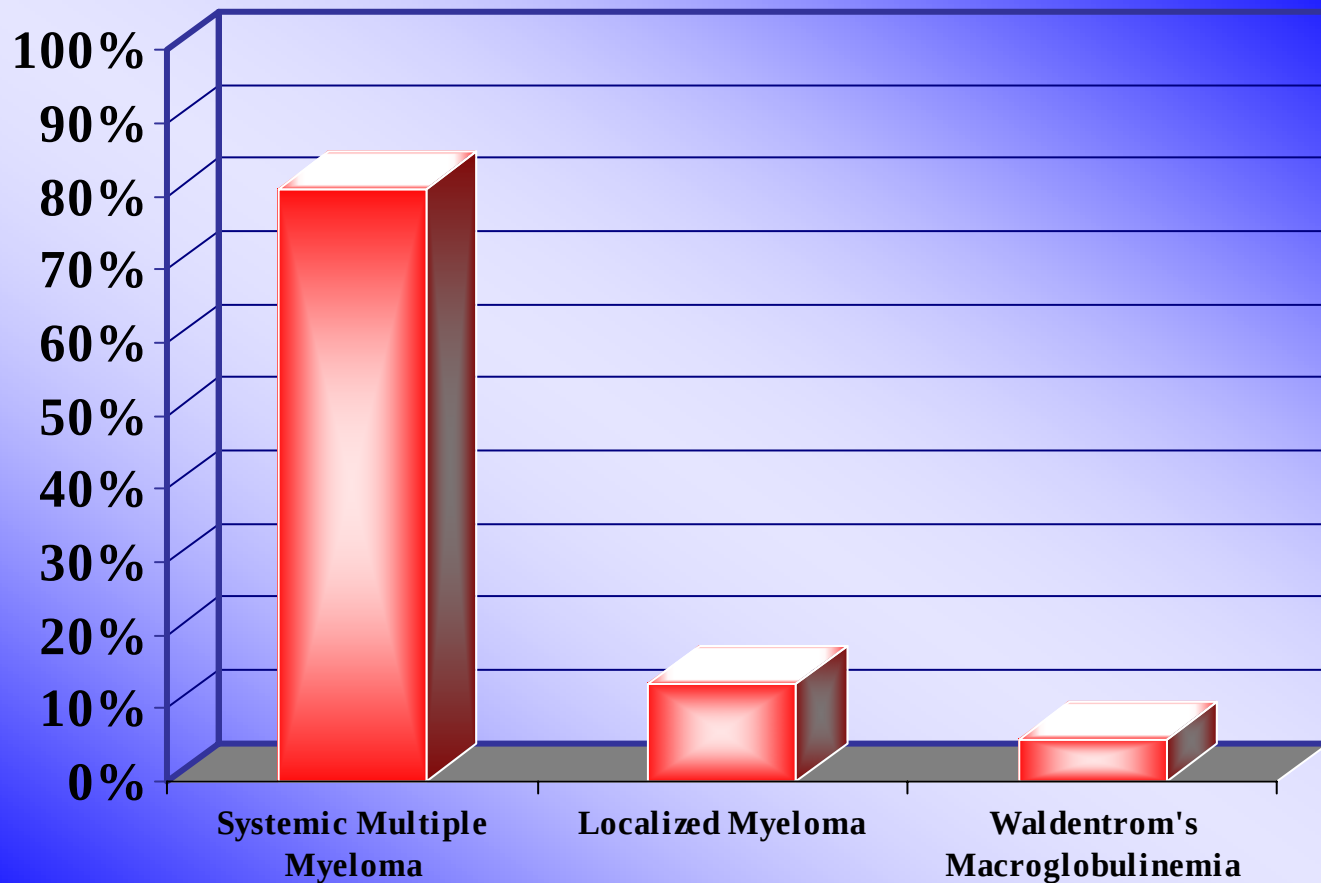


Mean = 58 years

Medium = 61 years

M : F = 1.2 : 1

Types of Multiple Myeloma



Symptoms & Signs

Anemia < 8.5g/dl 52.8%

8.5g –10g/dl 30.5%

> 10g/dl 16.7%

Bone pain 44 %

Renal failure at diagnosis 16.7%

Renal failure during follow up 15.3%

Spinal cord compression at presentation 11.2%

SCC during F/u 4.5%

Pathologic fracture 7.9%

Infection 11.2%

Hepatosplenomegaly 11.2%

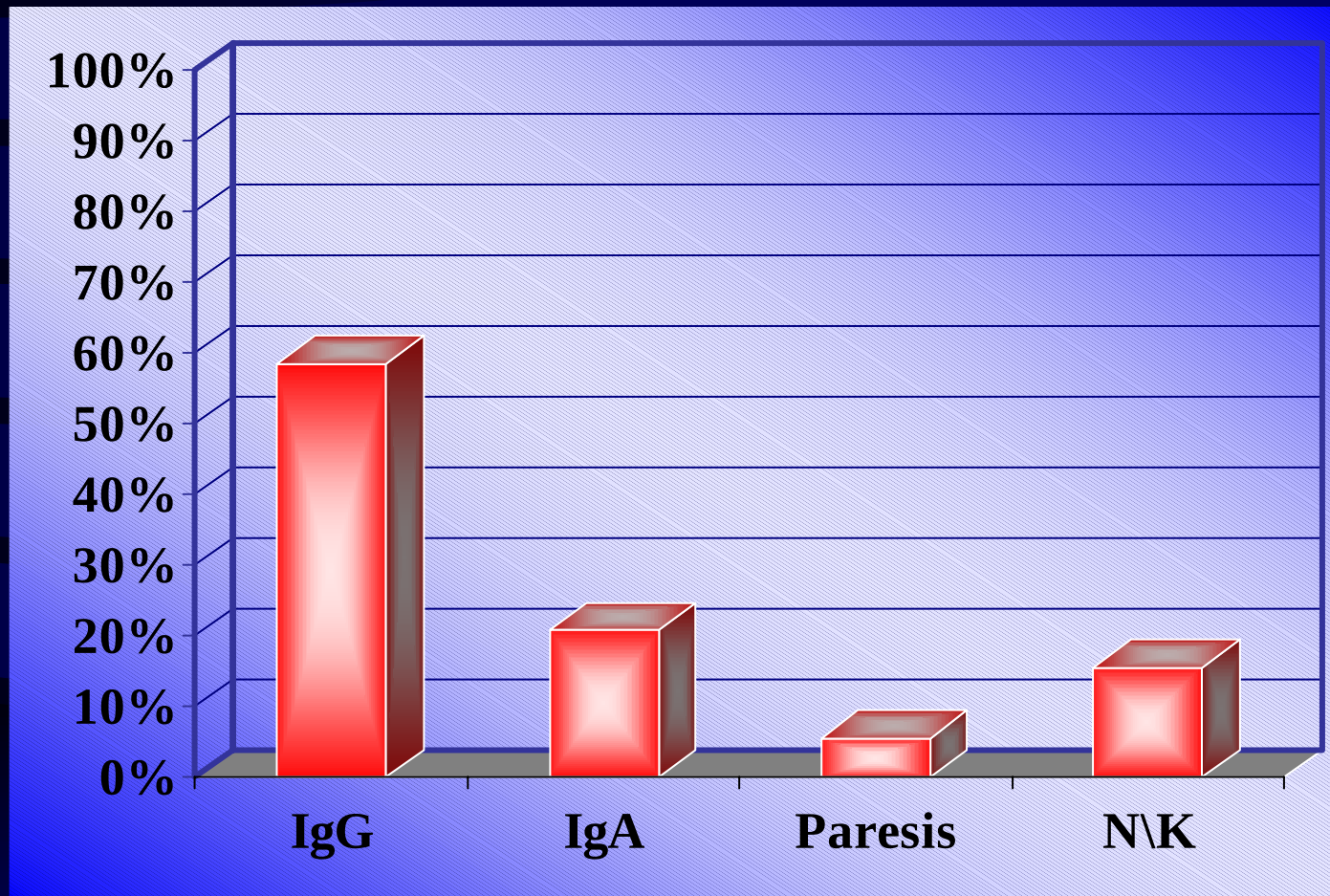
Bleeding 7.86%

Coagulopathy 7.86%

Weight loss 2.2%

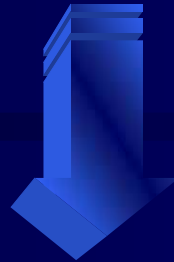
Lymph node 1.1%

Types of Immunoglobulin



N\K = Unknown

Laboratory Investigation



ESR > 100 mm /1st hour in 68.5 %

Serum albumin < 3g/dl in 27.4%

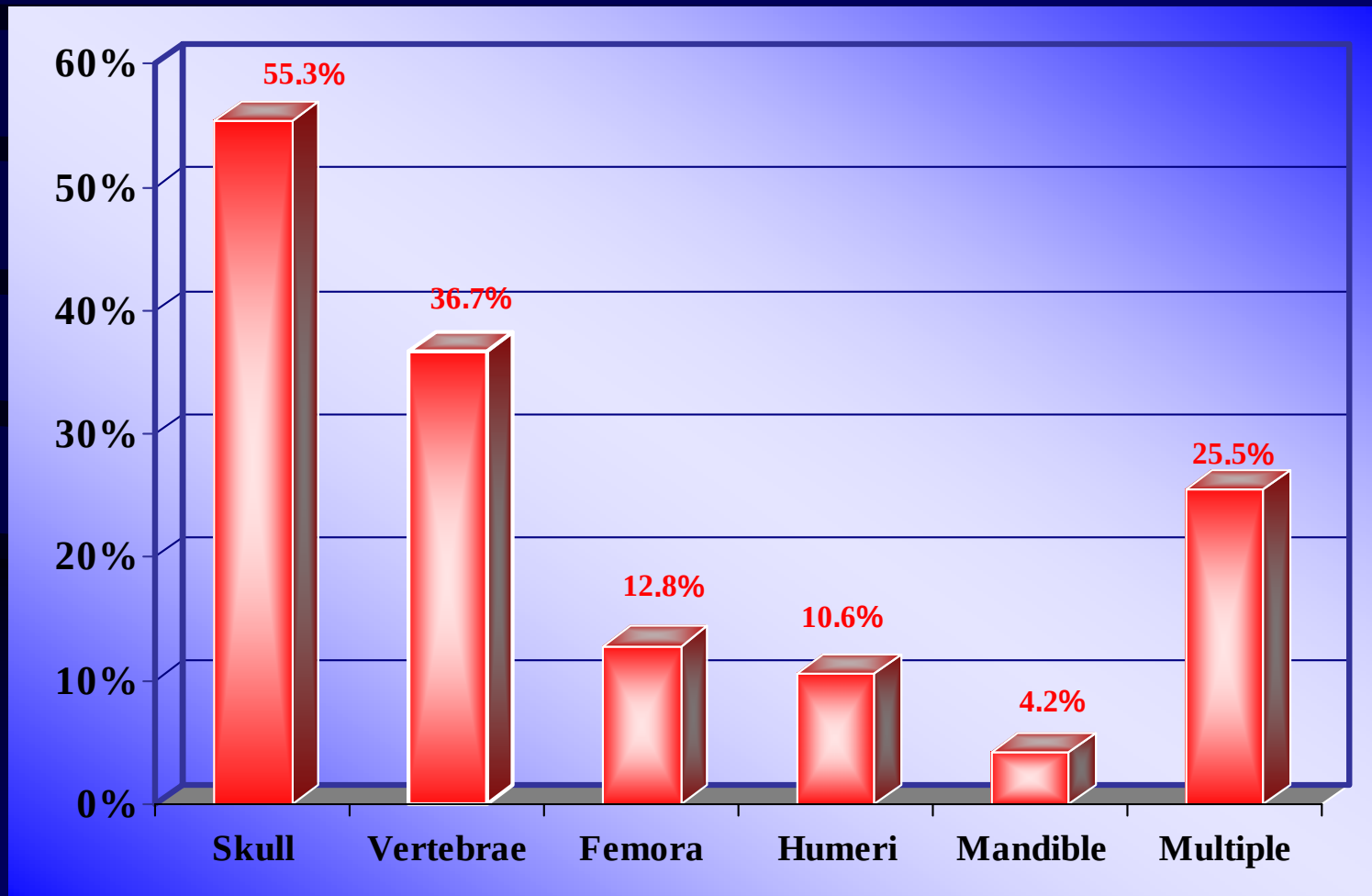
Bence Jones protein positive in urine in 13.8%.

Hypercalcemia presents in 16.7%.

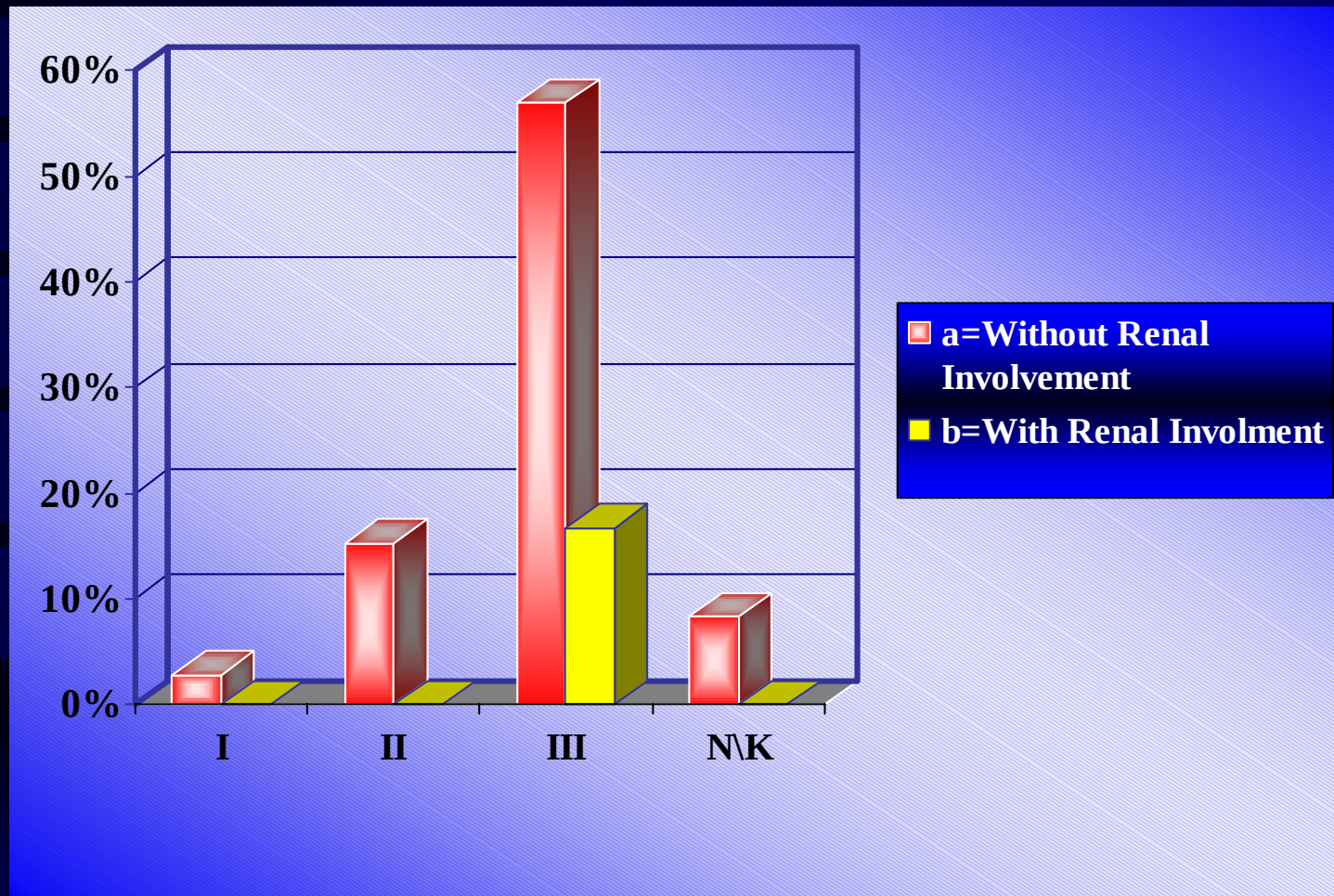
**Bone marrow infiltration high myeloma cell mass in
(27.9%)**

Skeletal Involvement in Multiple Myeloma

65.3 % of patients have skeletal involvement



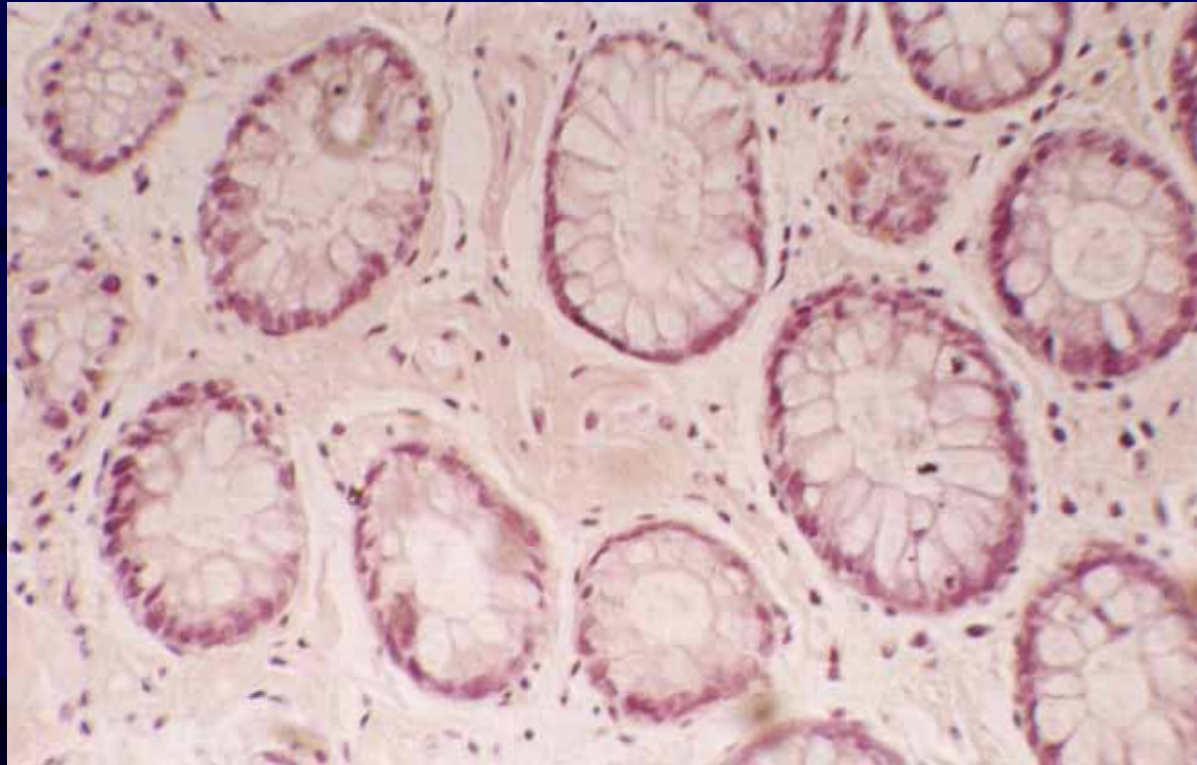
Stages of Myeloma at Diagnosis



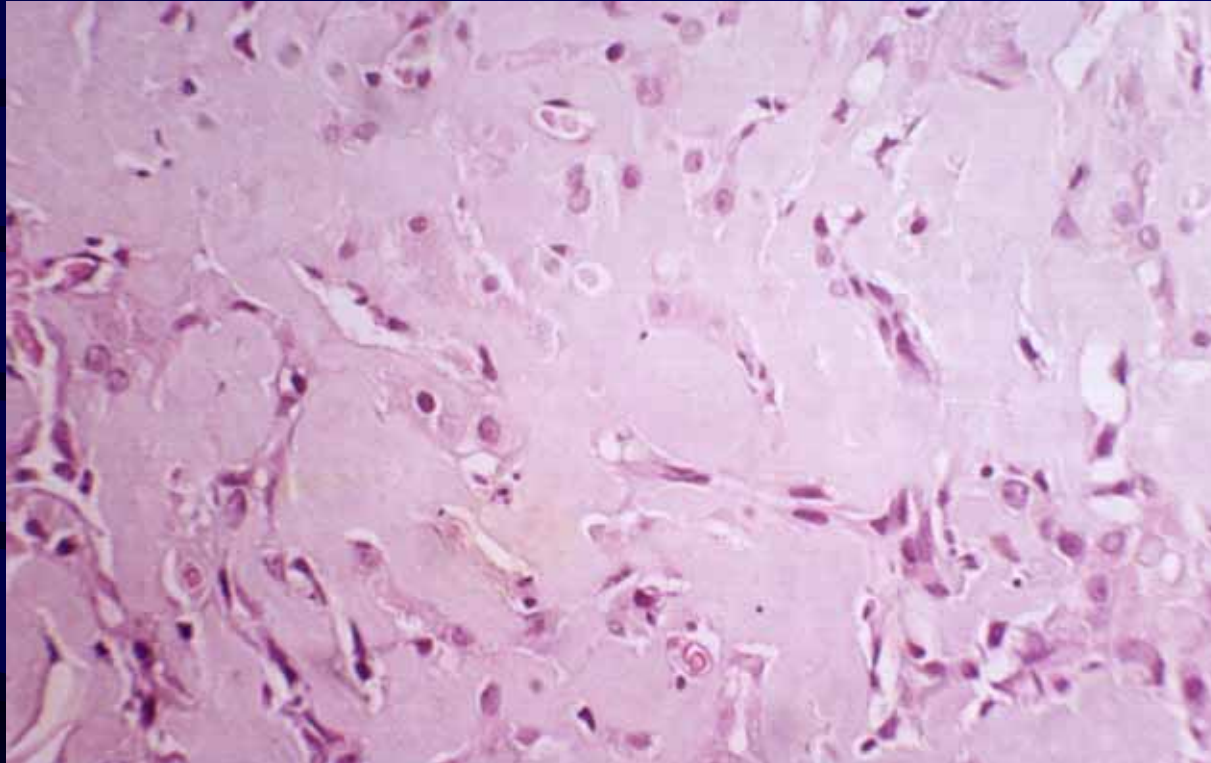
According to Durie – Salmon Staging System.

Other Diseases Developed During Follow Up

- Basal cell carcinoma.
- Malignant melanoma.
- (Transitional cell carcinoma) of urinary bladder
- One Patient developed bronchial carcinoma.
- Two patients had liver cirrhosis.
- One patient developed Hepatitis (drug induced)
- Two patients had Hepatitis B+C.
- Two cases have diabetes (presented as DKA).
- Patient has rheumatic heart AR+MR.
- Two patients had heart failure +AF.
- Two Patients developed Amyliodosis during follow up.

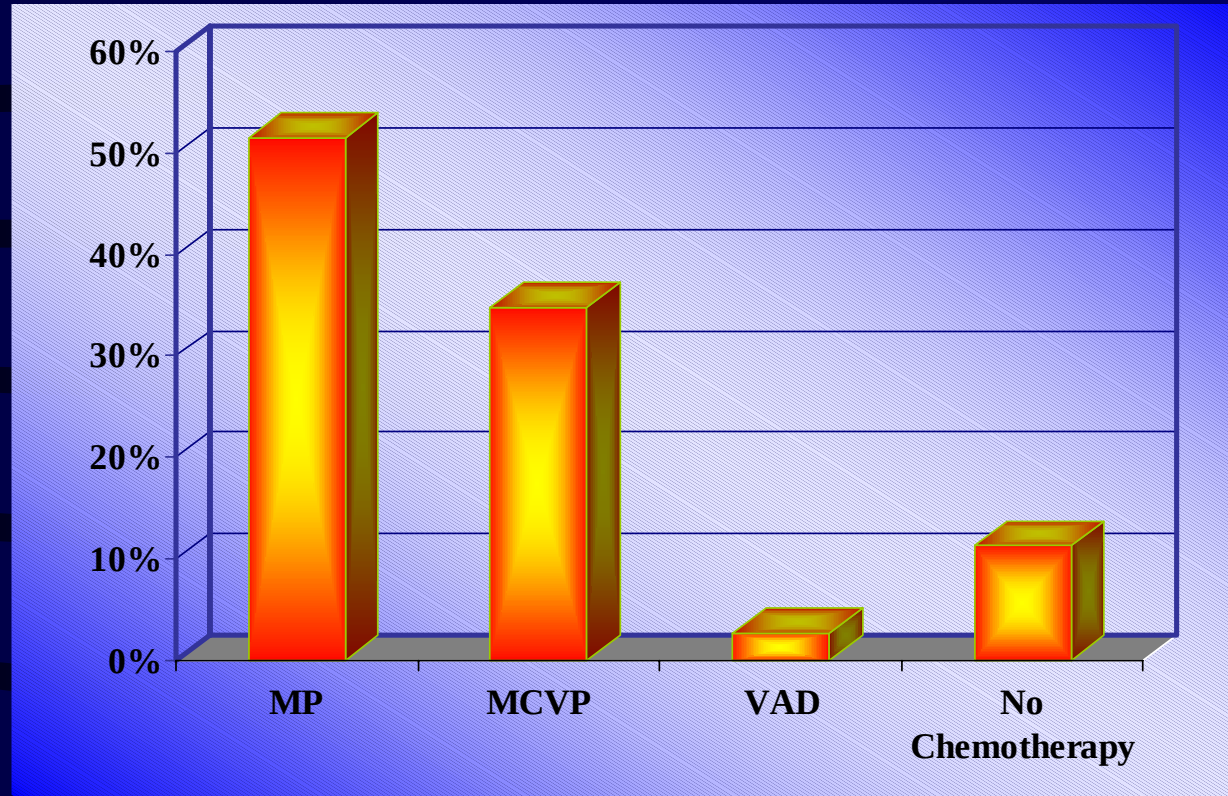


***Rectal Biopsy Stained By Congo Red Stain Under
Light Microscope Showed Amyloidosis***



***Liver Biopsy Stained By Congo Red Stain Under
Light Microscope Showed Amyloidosis***

Types Of Chemotherapy As First Line in 88.7%



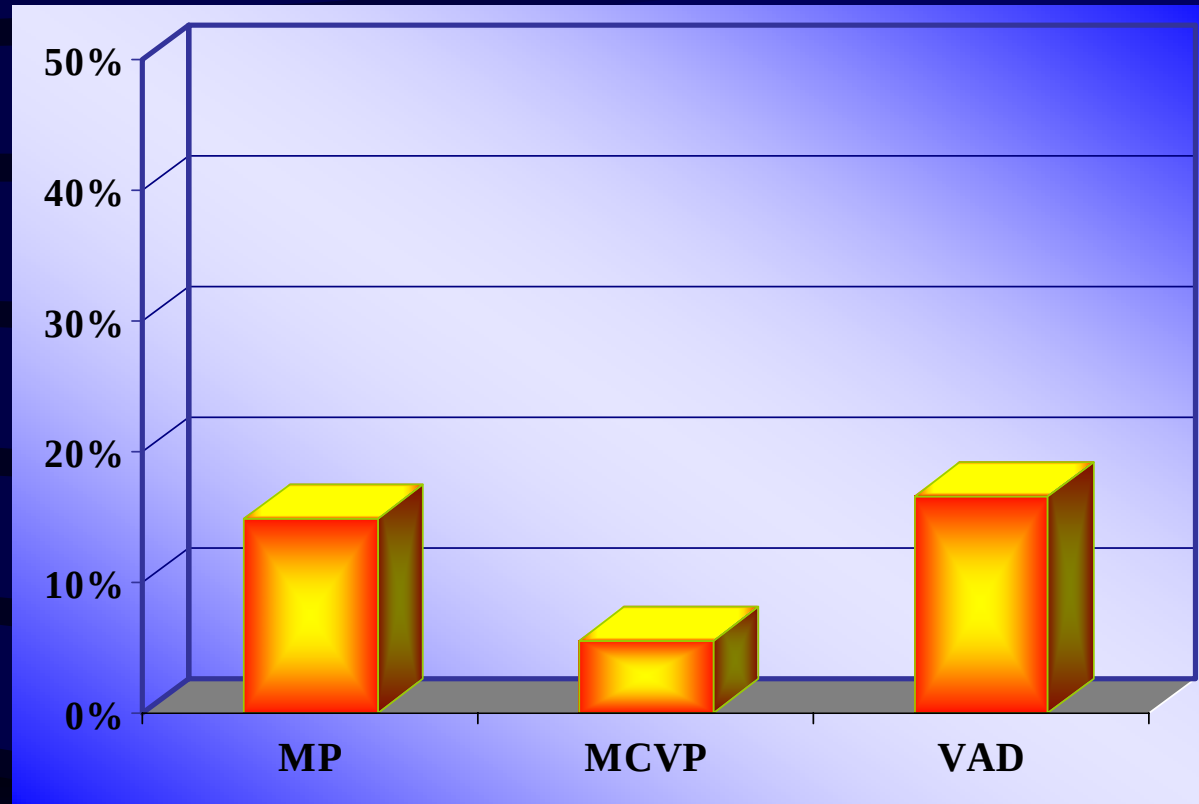
Interferon was given to 3 patients.

Bisphosphonate (pamidronate) used in 2 patients.

Cycle ranged between 6-24 cycles

Duration of partial response ranged between 2 and 24 months with mean of 11 months.

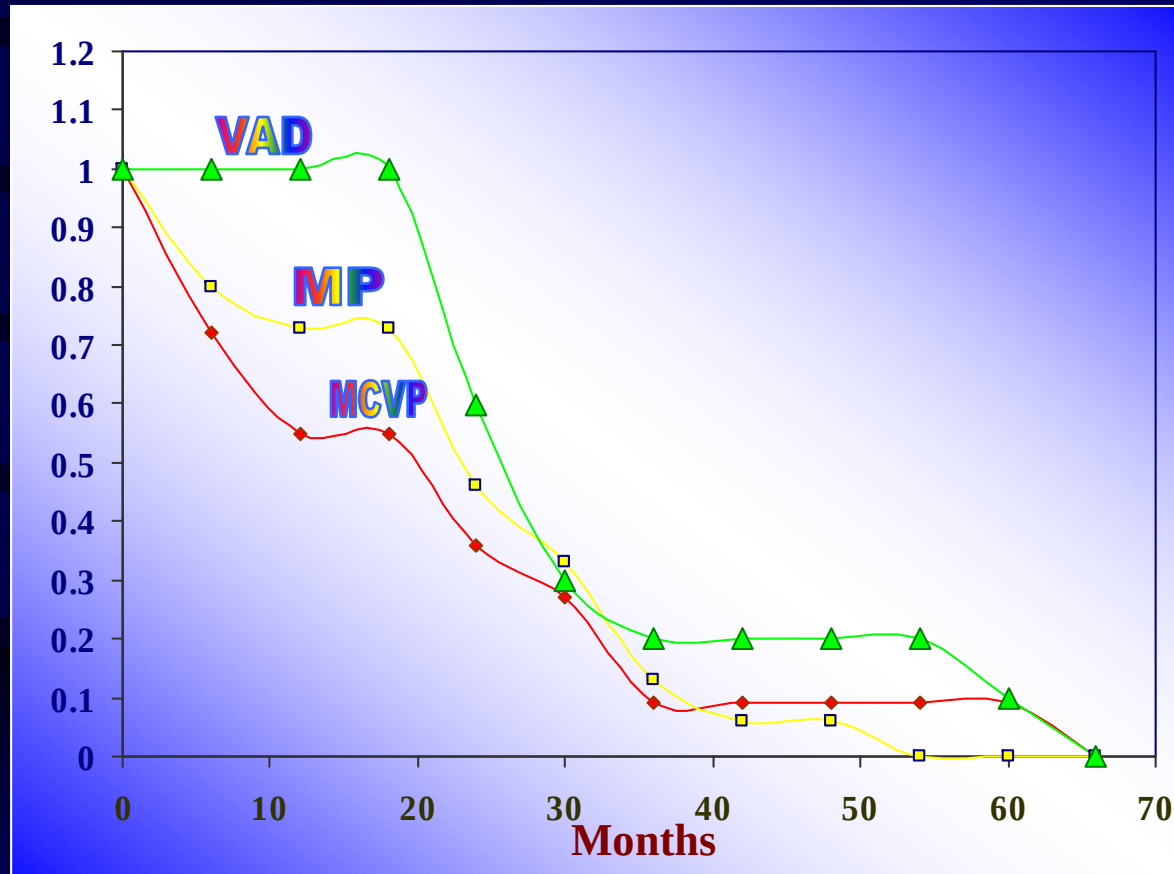
Types Of Chemotherapy as Second Line



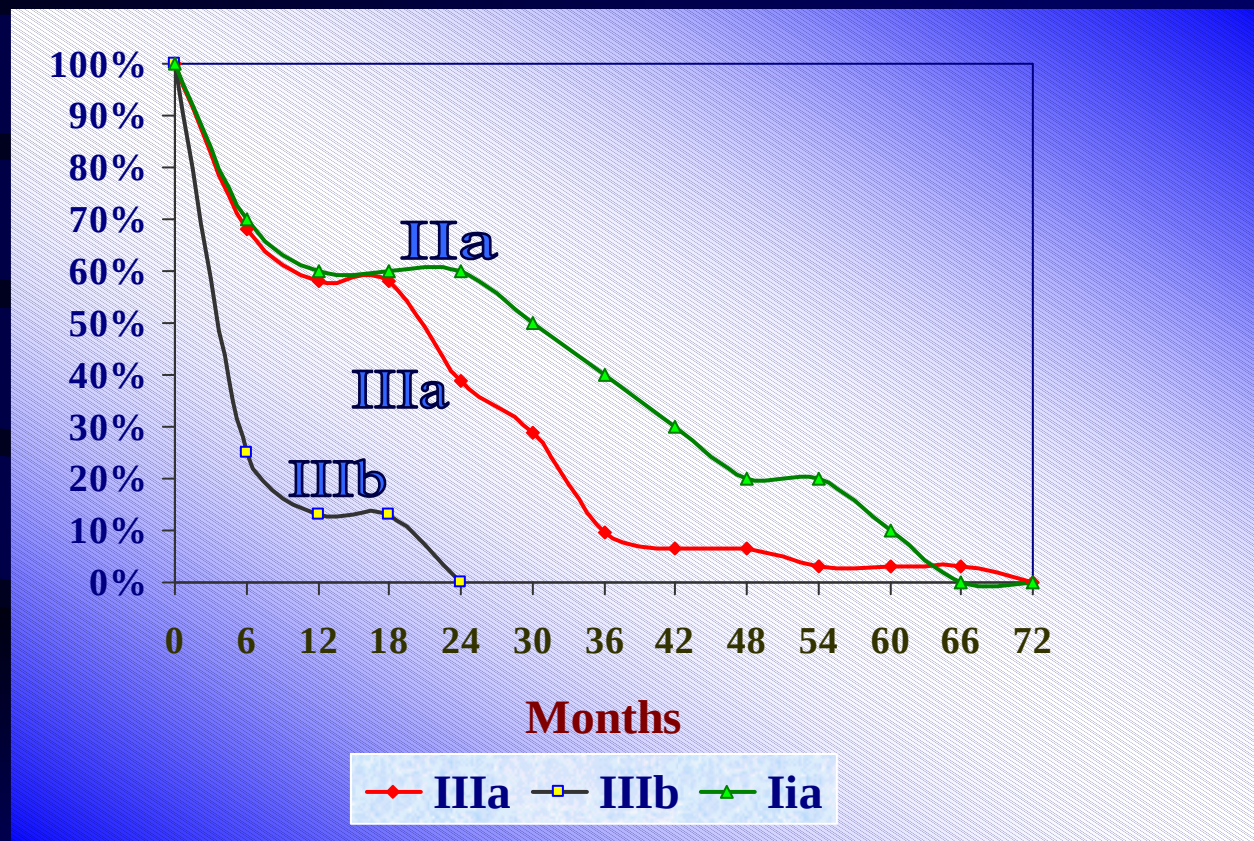
In 27.8% had a partial response duration of response ranged between 2 month and 24 months with a mean of **eleven** months.

37% Of Patients Treated With Chemotherapy Received Second Line Either Because Of Relapse Or Resistant To First Line

*Over all Median Survival Rate in Stage III_A
Disease ($P > 0.05$)*



Over all Survival Rate in Stage II_A , III_A III_B



Median Survival Rate in Stage IIIa Disease in Different Type of Chemotherapy.

Type of Treatment	MCVP	MP	VAD
Median survival rate	20.5 Months	22.75 Months	36 Months

- **Over all Median is 27.67 months in all Stages of Multiple Myeloma.**
- **Over all 2 Years Survival Rate Was 47%.**
- **Over all 5 Years Survival Rate Was 10%.**

Localized Myeloma:

Localized plasmacytoma

12 patients were diagnosed as Localized Myeloma in the period 10 years.

Localized Myeloma represents 13.4% of Multiple Myeloma.

Mean age 52 Years.

Male to Female ratios were 5:1

-Solitary Extamedullary Plasmacytoma 42% (5.6%)

60% Had nasal Involvement.

40% Had Maxilla & Sphenoid Sinus.

Solitary Plasmacytoma of Bone 58% (7.8%)

42.8% Had vertebra Involvement

28.6% Femur

14.3% Ribs

-14.3% Had Sternum.

Two Patients Had Spinal Cord Compression, Other Wise no Systemic Symptoms.

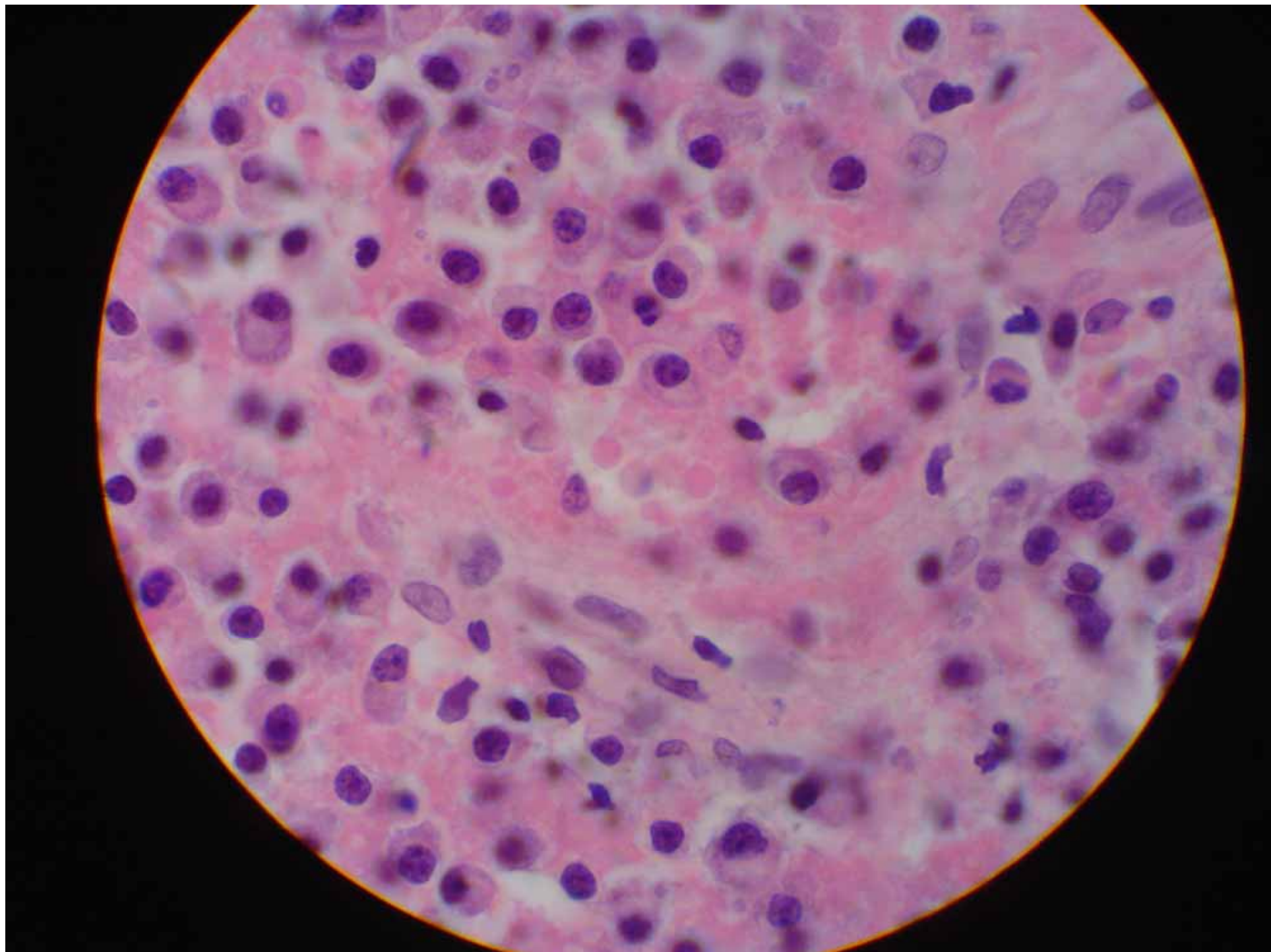
-Nine patients received radiotherapy.

-33.3% of Patients Transformed to Systemic Multiple Myeloma IgG Type after a Period ranged between 8 months and 5 Years.

-They Received Chemotherapy as MCVP

All Patients are Alive.





Waldenstrom's Macroglobulinemia

- Waldenstrom's Macroglobulinemia
- 5.6% has IgM Macroglobulinemia
- Mean Age= 61.8 Years
- All Patients are Male
- All Have Hepatosplenomegaly
- 40% Have Renal Failure
- 80% Received Chemotherapy
- One of these Patients is alive for 11 Years

Thank you

The text 'Thank you' is rendered in a large, bold, sans-serif font. Each letter is filled with a different color from a rainbow gradient: 'T' is pink, 'h' is red, 'a' is orange, 'n' is yellow, 'k' is light green, 'y' is blue, 'o' is dark blue, and 'u' is purple. The letters have a thin white outline. A bright white spotlight beam originates from the bottom left and shines directly onto the 'y' in 'you'. The background is a solid dark blue with faint, wavy horizontal lines. On the right side, there are three small, horizontal blue rectangular elements stacked vertically.