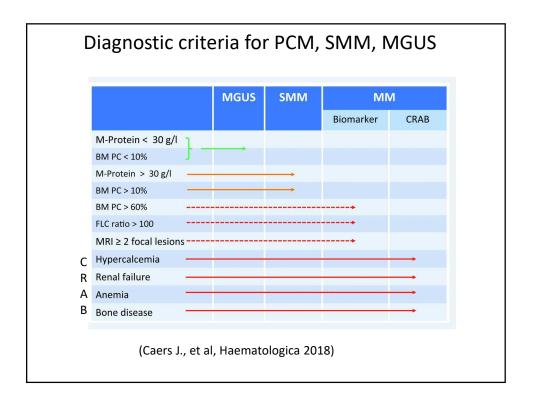
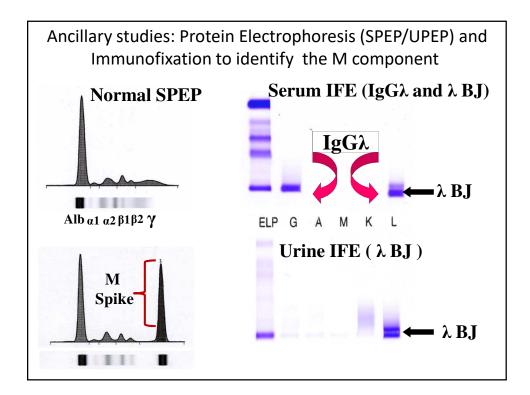
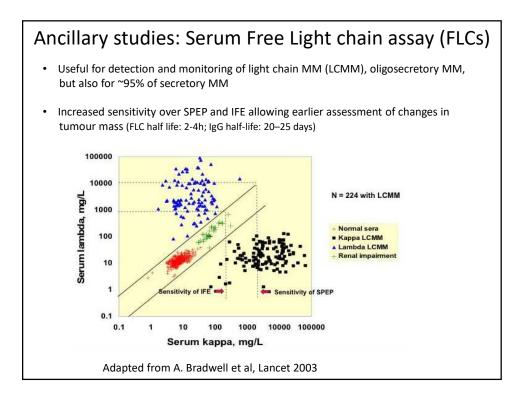
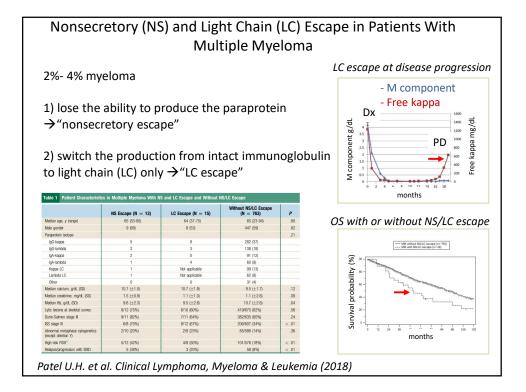


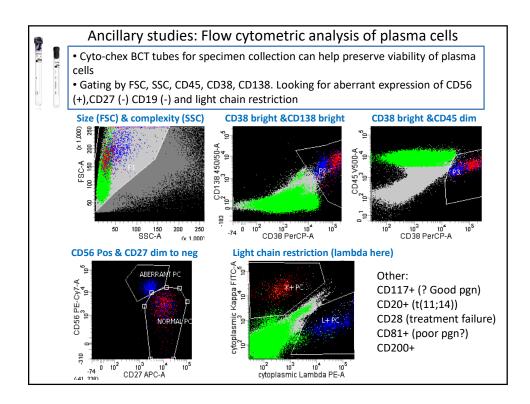
Plasma cell neoplasms				
Table 13.04 Plasma cell neoplasms				
Non-IgM (plasma cell) monoclonal gammopathy of undetermined significance (precursor lesion)	Clinical variants			
Plasma cell myeloma	Smouldering (asymptomatic) plasma cell myeloma Non-secretory myeloma Plasma cell leukaemia			
Plasmacytoma	Solitary plasmacytoma of bone Extraosseous (extramedullary) plasmacytoma			
Monoclonal immunoglobulin deposition diseases	Primary amyloidosis Systemic light and heavy chain deposition diseases			
Plasma cell neoplasms with associated paraneoplastic syndrome	POEMS syndrome TEMPI syndrome (provisional)			
(WHO Classification of tumors of hen Revised 4 <sup>th</sup> edition, 2016)	natopoietic and lymphoid tissues,			

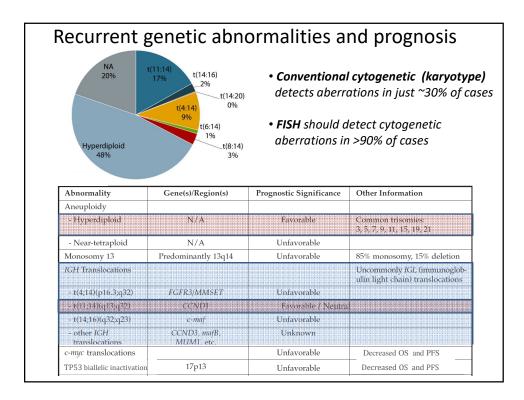


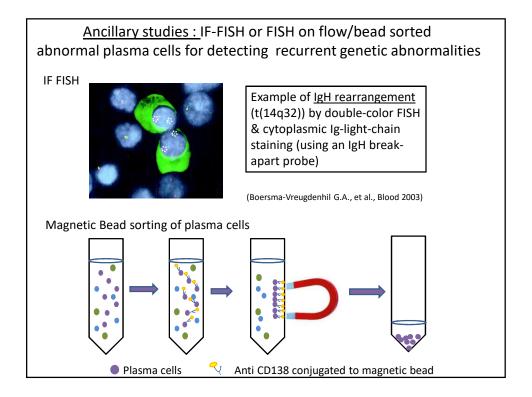


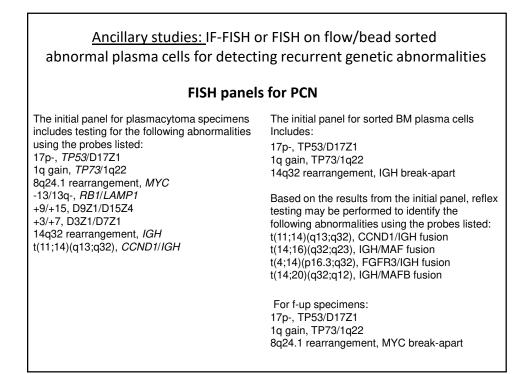


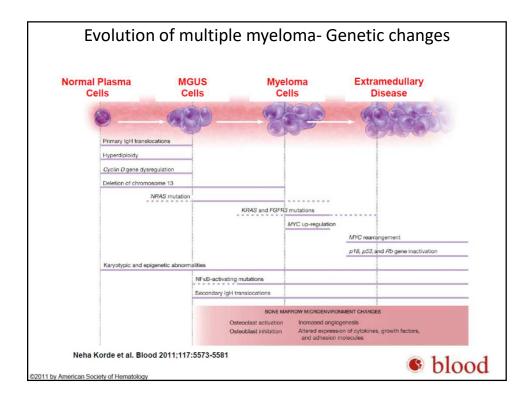


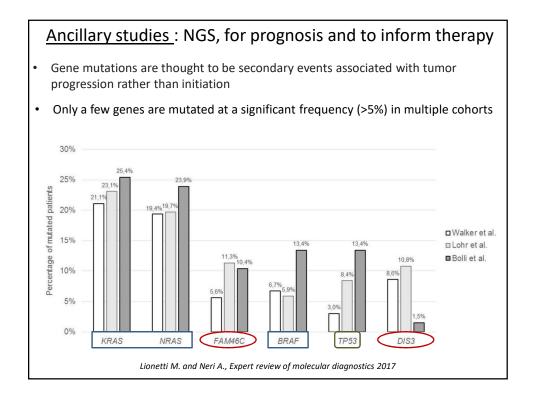


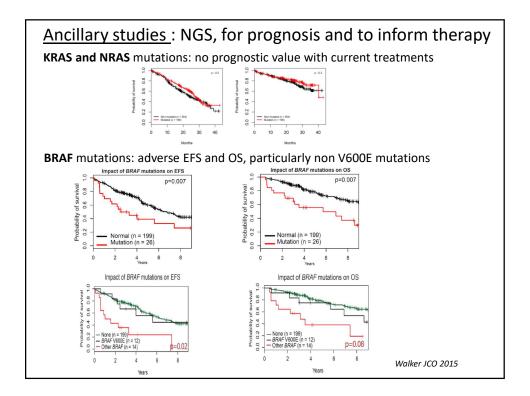


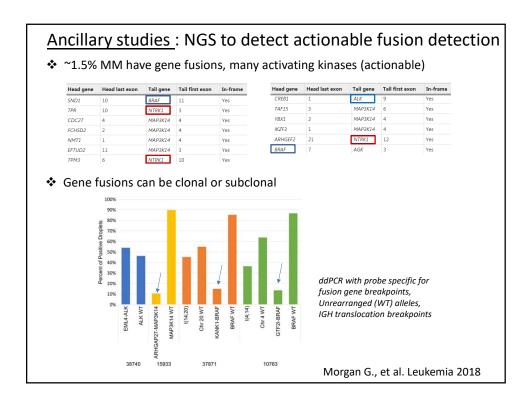


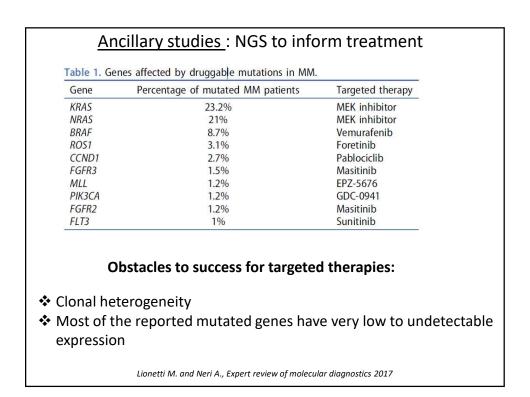


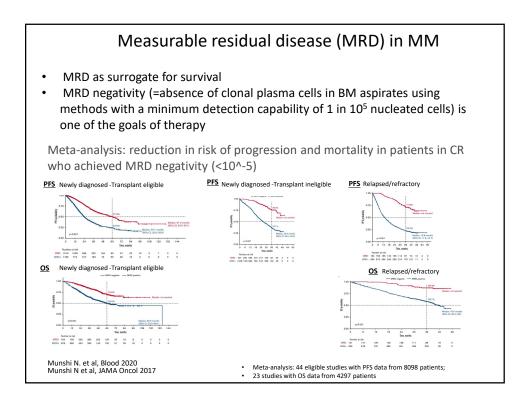


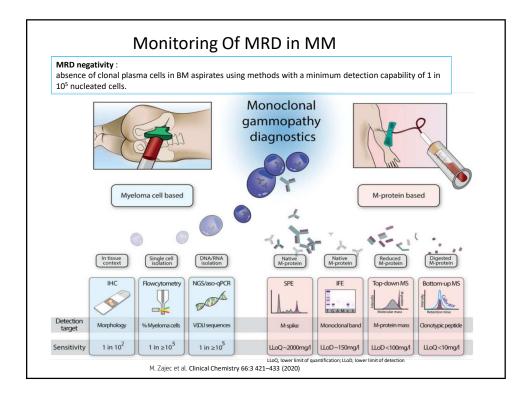


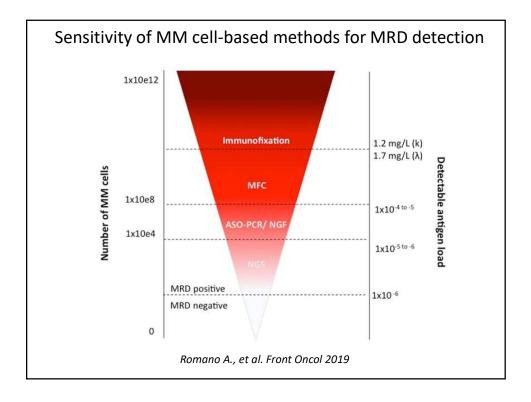


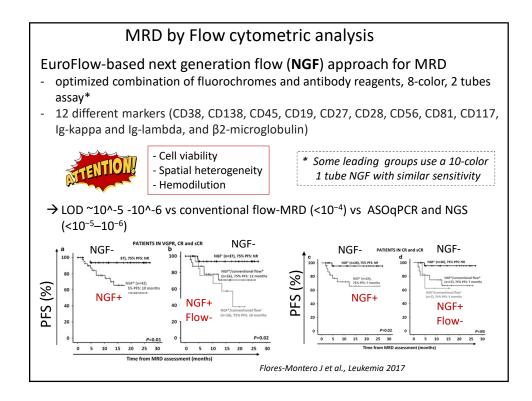


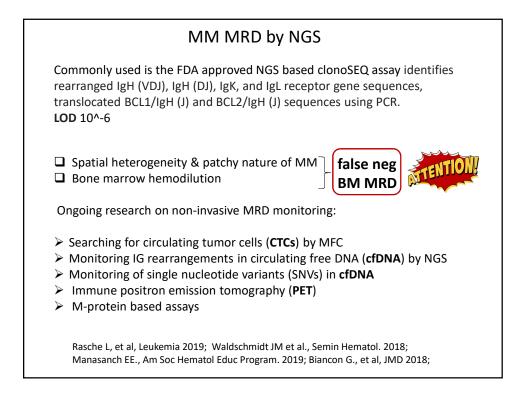


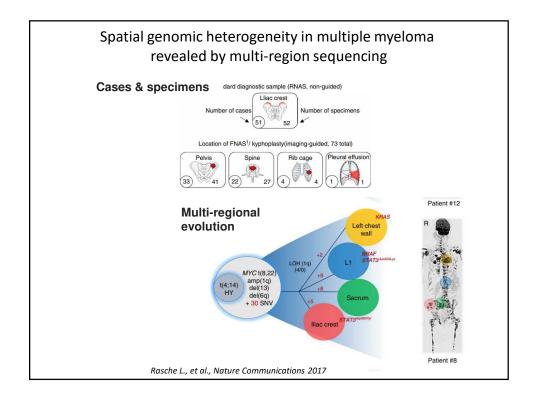


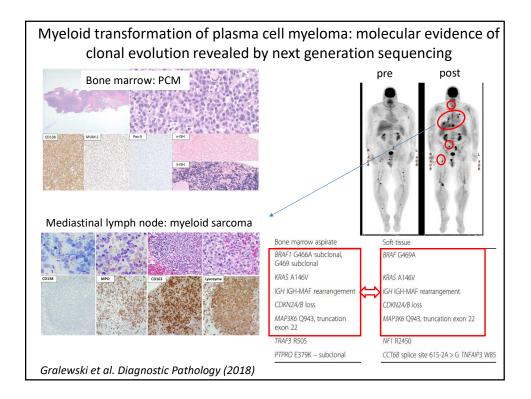


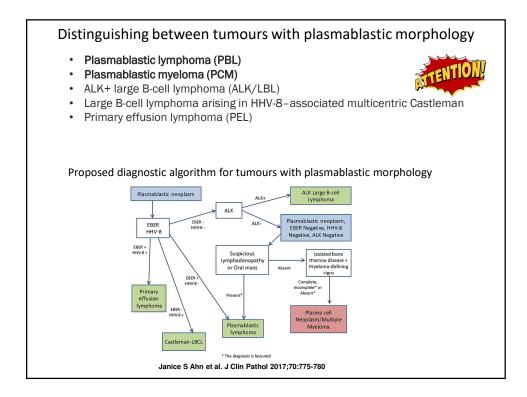


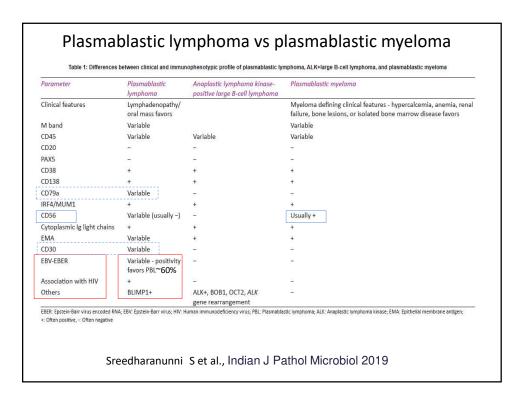


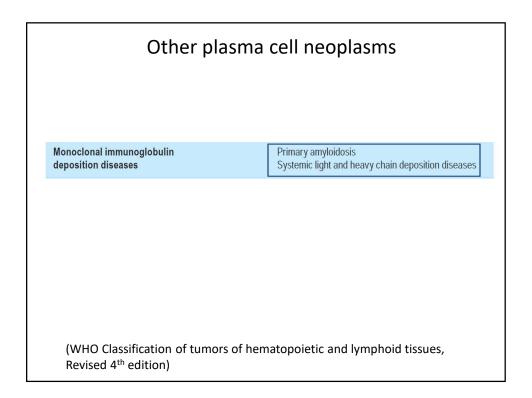


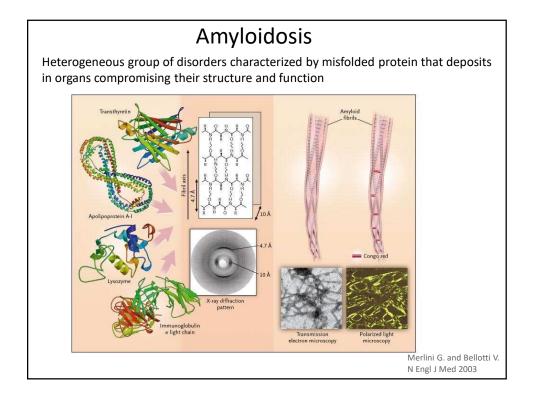






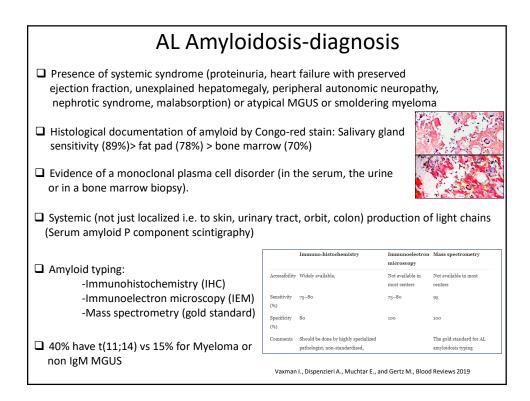


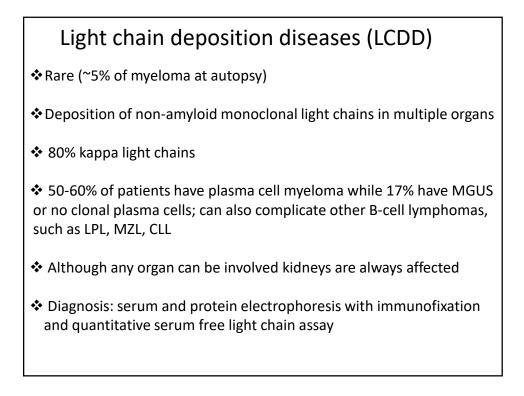


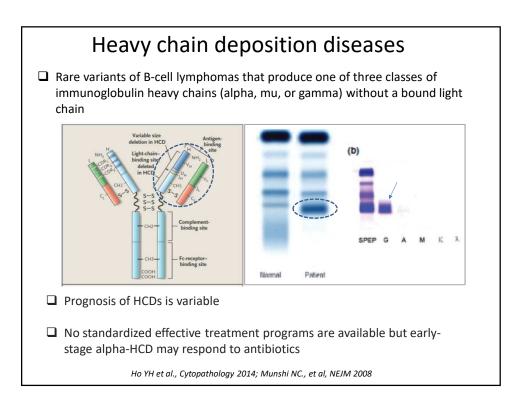


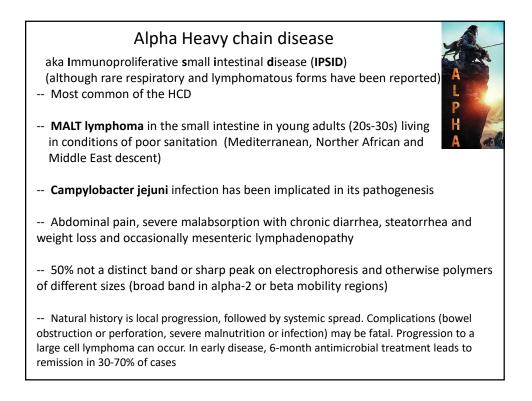
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Table 1. A	myloid Proteins and Their	Precursors.*			
Amyloid Protein	Precursor	Distribution	Туре	Syndrome or Involved Tissues	
Aβ	Aβ protein precurs or	Localized Localized	Acquired Hereditary	Sporadic Alzheimer's disease, aging Prototypical hereditary cerebral amyloid angiopa- thy, Dutch type	
APrP	Prion protein	Localized Localized	Acquired Hereditary	Sporadic (iatrogenic) CJD, new variant CJD (alimentary?) Familial CJD, CSSD, FFI	
ABri	ABri protein precursor	Localized or systemic?	Hereditary	British familial dementia	
ACys	Cystatin C	Systemic	Hereditary	Icelandic hereditary cerebral amyloid angiopathy	
Αβ2Μ	Beta <sub>2</sub> -microglobulin	Systemic	Acquired	Chronic hemodialysis	
AL	Immunoglobulin light chain	Systemic or localized	Acquired	Primary amyloidosis, myeloma-associated	
AA	Serum amyloid A	Systemic	Acquired	Secondary amyloidosis, reactive to chronic infec- tion or inflammation including hereditary peri- odic fever (FMF, TRAPS, HIDS, FCU, and MWS)	
ATTR	Transthyretin	Systemic Systemic	Hereditary Acquired	Prototypical FAP Senile heart, vessels	
AApoAI	Apolipoprotein A-I	Systemic	Hereditary	Liver, kidney, heart	
AApoAII	Apolipoprotein A-II	Systemic	Hereditary	Kidney, heart	
AGel	Gelsolin	Systemic	Hereditary	Finnish hereditary amyloidosis	
ALys	Lysozyme	Systemic	Hereditary	Kidney, liver, spleen	

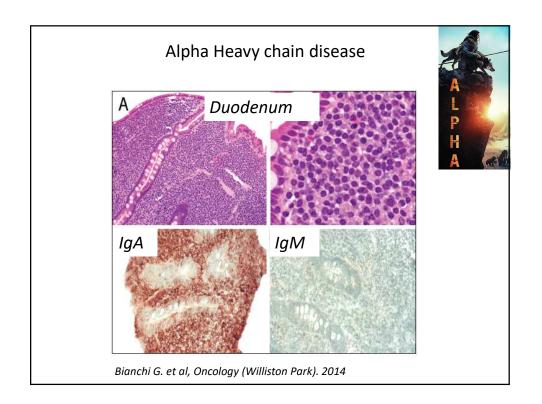
AL Amyloidosis
Most common type of <u>systemic</u> amyloidosis
Incidence of 9–14 cases per million-person years in the USA
Occurs in <u>12-15%</u> of patients with <u>myeloma</u> (also
lymphoplasmacytic neoplasms)
✤ <u>80% lambda</u> , 20% kappa
Usually presents with nonspecific symptoms (weight loss,
fatigue, dyspnea, paresthesias)
Highly specific but quite insensitive are macroglossia (10%) and
periorbital purpura (<20%)
The most commonly involved organs are the heart, kidneys,
liver, nervous system, gastrointestinal tract and soft tissue

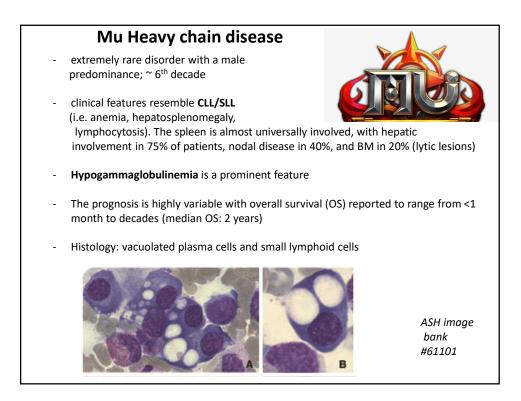


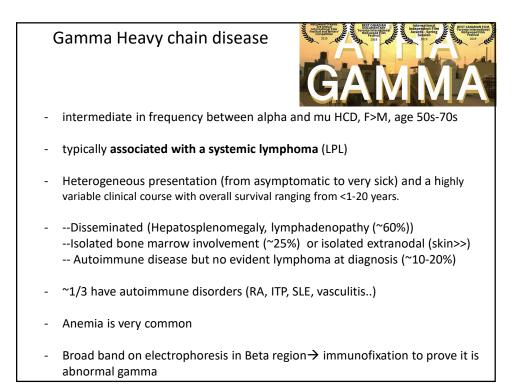


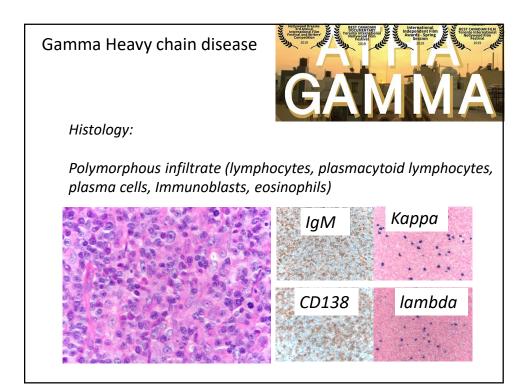


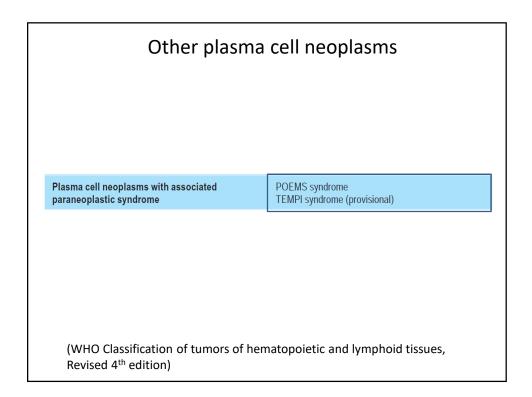


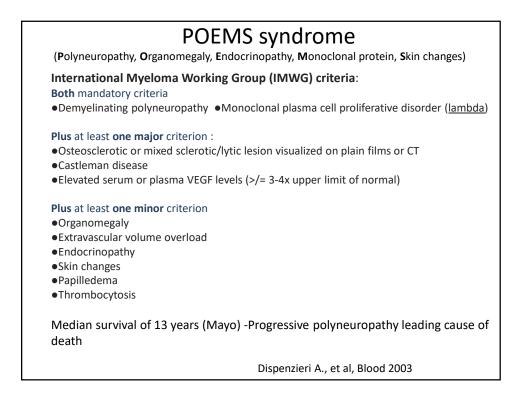


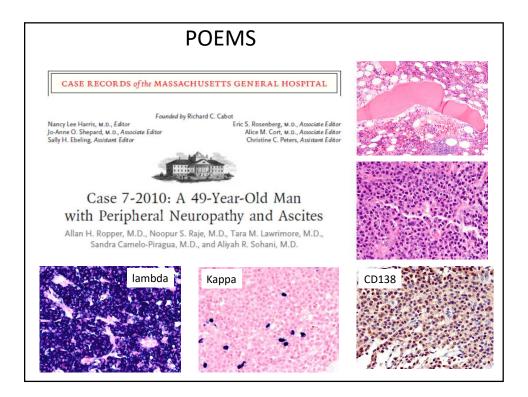


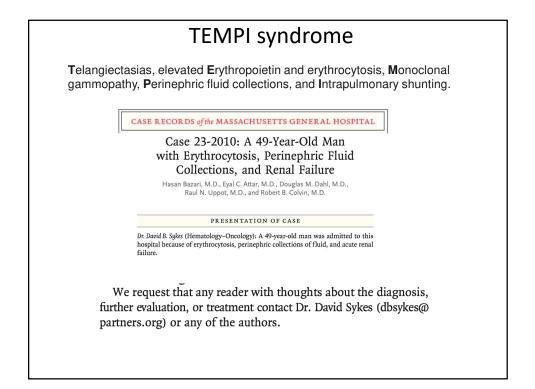


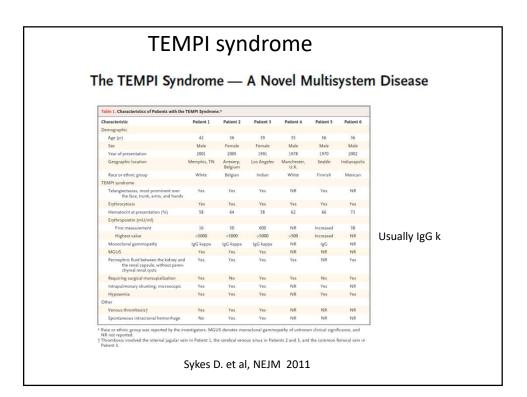


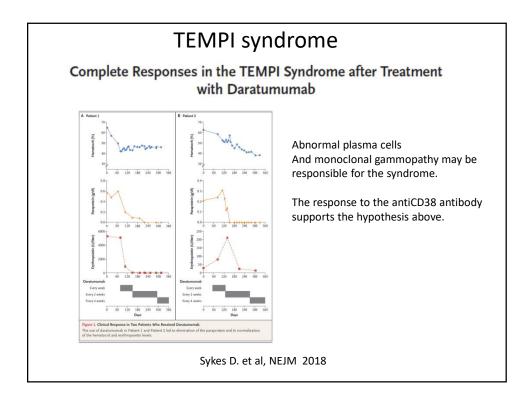












## Lymphoplasmacytic lymphoma

Neoplasm of small B lymphocytes, plasmacytoid lymphocytes and plasma cells, usually involving the bone marrow\* and sometimes lymph nodes and spleen, which does not fulfill criteria for other small B-cell lymphoid neoplasms.

\* Waldenstrom Macroglobulinemia ←>LPL in the bone marrow + IgM paraprotein Immunophenotype: IgM+, CD19+, CD20+, CD22+, CD25+, CD27+, FMC7+, CD5-/+, CD10-, CD23-, CD103-, CD138-

