

SUPER SHORT PEP CODES		SUPER SHORT PIE CODE	
	<b>Normal SPIE</b>		<b>Beta Globulins</b>
D150	Normal serum electrophoresis study. No monoclonal protein seen.	D152	Polyclonal increase in Beta and Gamma globulins. No monoclonal protein seen. Consistent with inflammatory or infectious process.
D151	Polyclonal increase in Gamma globulins. No monoclonal protein seen. Consistent with inflammatory or infectious process.	D179	Non-specific decrease in Beta globulins. No monoclonal protein seen.
D152	Polyclonal increase in Beta and Gamma globulins. No monoclonal protein seen. Consistent with inflammatory or infectious process.	D164	Monoclonal protein seen in Beta fraction.
		D168	Possible monoclonal protein in Beta region. Consider immunoelectrophoresis to further evaluate, if clinically appropriate.
		D168A	Possible monoclonal protein in Beta region. Note: Use this code if there is concurrent IFE.
	<b>No monoclonal protein - UPIE</b>		<b>Gamma Globulins</b>
D200	Normal protein electrophoresis. No monoclonal protein seen. Use when total protein <150 mg/24 hours or <15 mg/dL on spot urine AND albumin only or albumin and scant beta only.	D151	Polyclonal increase in Gamma globulins. No monoclonal protein seen. Consistent with inflammatory or infectious process.
D201	Mild albuminuria. No monoclonal protein seen. Use when total protein 150-3,000 mg/24 hours or 15-300 mg on spot urine AND albumin only or albumin and scant beta only.	D169	Possible monoclonal protein in Gamma region. Consider immunoelectrophoresis to further evaluate, if clinically appropriate.
D202	Mild nonselective proteinuria. No monoclonal protein seen. Use when alpha1, alpha2 or gamma (usually all three) is present and total protein <3000 mg/24 hours or <300 mg on spot urine (use even when urine protein is within normal range).	D169A	Possible monoclonal protein in Gamma region. Note: Use this code if there is concurrent IFE.
D198	Marked nonselective proteinuria. No monoclonal protein seen. Use when total protein >=3,000 mg/24 hours or >=300 mg on spot urine AND protein is seen in alpha1, alpha2 or gamma, usually all three.	D180	Decreased background polyclonal Gamma Globulins. Note: Use this code when gamma fraction minus monoclonal protein <0.7 gm/dL. This is important as this is part of the staging of myeloma. Should only be paired with D163-D165 or D167-D169
D199	Marked albuminuria. No monoclonal protein seen. Use when total protein >=3,000 mg/24 hours or >=300 mg on spot urine AND albumin only or albumin and scant beta only. NOTE: RARE.	D187	Mild hypogammaglobulinemia. No monoclonal protein seen. Serum free light chain analysis or urine immunoelectrophoresis to evaluate for light chain disease or amyloidosis may assist in establishing a diagnosis. Note: D157 is no longer available; new code offers serum free light chain vs. IFE to resolve. In automated interpretation, D187 is used for gamma 0.4 to 0.6 gm/dL.
	<b>Albumin</b>	D187A	Mild hypogammaglobulinemia. No monoclonal protein seen. Note: Use this code if there is concurrent IFE. In automated interpretation, D187 is used for gamma 0.4 to 0.6 gm/dL.
D161	Mild hypoalbuminemia. No monoclonal protein seen.		<b>Monoclonal Proteins</b>
D161A	Mild hypoalbuminemia.		
D162	Marked hypoalbuminemia. No monoclonal protein seen. Note: Use with albumin < 1.4 gm/dL.	D163	Monoclonal protein seen in Alpha-2 fraction.
D162A	Marked hypoalbuminemia. Note: Use with albumin < 1.4 gm/dL.	D164	Monoclonal protein seen in Beta fraction.
D175	Increased albumin present. No monoclonal protein seen.	D165	Monoclonal protein seen in Gamma fraction.
D175A	Increased albumin present.	D167A	Possible monoclonal protein in Alpha-2 region. Note: Use this code if there is concurrent IFE.
		D168	Possible monoclonal protein in Beta region. Consider immunoelectrophoresis to further evaluate, if clinically appropriate.
	<b>Alpha-2 Globulins</b>	D168A	Possible monoclonal protein in Beta region. Note: Use this code if there is concurrent IFE.
D178	Non-specific decrease in Alpha-2 globulins. No monoclonal protein seen.	D169	Possible monoclonal protein in Gamma region. Consider immunoelectrophoresis to further evaluate, if clinically appropriate.
D178A	Non-specific decrease in Alpha-2 globulins.	D169A	Possible monoclonal protein in Gamma region. Note: Use this code if there is concurrent IFE.
D177	Increased Alpha-1 and Alpha-2 globulins. Consistent with acute inflammatory process. No monoclonal protein seen	D170	Increased from previous study.
D177A	Increased Alpha-1 and Alpha-2 globulins.	D170A	Slightly increased from previous study. Note: Use if Δ=0.1 small monoclonals, 0.1-0.2 large monoclonals
D163	Monoclonal protein seen in Alpha-2 fraction.	D171	Decreased from previous study.
D167	Possible monoclonal protein in Alpha-2 region. Consider immunoelectrophoresis to further evaluate.	D171A	Slightly decreased from previous study. Note: Use if Δ=0.1 small monoclonals, 0.1-0.2 large monoclonals
D167A	Possible monoclonal protein in Alpha-2 region. Note: Use this code if there is concurrent IFE.	D172	Similar to previous study.
			<b>Urine No Monoclonal Proteins</b>
		D280	Normal urine immunoelectrophoresis study. No immunoglobulins or free light chains seen.
		D281	Urine immunoelectrophoresis shows polyclonal immunoglobulins present. No monoclonal immunoglobulins or free monoclonal light chains seen.
			<b>Serum No Monoclonal Proteins</b>
		D310	Immunoelectrophoresis shows no monoclonal immunoglobulins or free light chains seen. Use when concurrent SPEP shows gamma fraction within normal limits
		D311	Immunoelectrophoresis shows a polyclonal increase in immunoglobulins present. No monoclonal immunoglobulins or free light chains seen. Use when concurrent SPEP shows gamma fraction is elevated.
		D312	Immunoelectrophoresis shows no monoclonal immunoglobulins or free light chains present. Immunoglobulins appear decreased. Confirm with quantitative immunoglobulin levels, if necessary. Use when concurrent SPEP shows gamma fraction is decreased.
			<b>Serum or Urine Monoclonal Proteins</b>
		D313	Immunoelectrophoresis shows a monoclonal IgG-kappa present. No free kappa light chains seen.
		D314	Immunoelectrophoresis shows a monoclonal IgG-kappa with free kappa light chains present.
		D315	Immunoelectrophoresis shows a monoclonal IgG-lambda present. No free lambda light chains seen.
		D316	Immunoelectrophoresis shows a monoclonal IgG-lambda with free lambda light chains present.
		D317	Immunoelectrophoresis shows a monoclonal IgA-kappa present. No free kappa light chains seen.
		D318	Immunoelectrophoresis shows a monoclonal IgA-kappa with free kappa light chains present.
		D319	Immunoelectrophoresis shows a monoclonal IgA-lambda present. No free lambda light chains seen.
		D320	Immunoelectrophoresis shows a monoclonal IgA-lambda with free lambda light chains present.
		D321	Immunoelectrophoresis shows a monoclonal IgM-kappa present. No free kappa light chains seen.
		D322	Immunoelectrophoresis shows a monoclonal IgM-kappa with free kappa light chains present.
		D323	Immunoelectrophoresis shows a monoclonal IgM-lambda present. No free lambda light chains seen.
		D324	Immunoelectrophoresis shows a monoclonal IgM-lambda with free lambda light chains present.
		D325	Immunoelectrophoresis shows free kappa light chains present with no associated heavy chains.
		D326	Immunoelectrophoresis shows free lambda light chains present with no associated heavy chains.
		D328	Monoclonal protein seen in immunofixation electrophoresis below threshold of protein electrophoresis.
		D329	Faint banding in several lanes with no clear monoclonal protein identified. Consider repeat serum and/or urine immunofixation electrophoresis if clinically indicated.
		D330	Monoclonal protein overlaps the beta region and cannot be separately quantitated.
			<i>If a monoclonal protein overlaps the beta region but cannot be definitively called on concurrent SPEP (note: monoclonal proteins are classified on the basis of SPEP mobility/capillary electrophoresis, not on the mobility on IFE gel), call possible monoclonal protein (e.g. D168), classify the monoclonal protein (e.g. D313) and add D330. If the monoclonal protein can be called and quantitated on SPEP, do not use this code.</i>