

Suggested neutering age guidelines for 40 breeds						
	Males			Females		
	No earlier than 6 months	No earlier than 12 months	No earlier than 24 months	No earlier than 6 months	No earlier than 12 months	No earlier than 24 months
Australian Cattle Dog	X			X		
Australian Shepherd	X			X*		
Beagle		X		X		
Bernese Mountain Dog			X	X		
Border Collie		X			X	
Boston Terrier		X		X		
Boxer			X			X
Bulldog	X			X		
Cavalier King Charles Spaniel	X			X		
Chihuahua	X			X		
Cocker Spaniel	X					X
Collie	X				X	
Corgi	X			X		
Dachshund	X				X	
Doberman Pinscher	Leave Intact					X**
English Springer Spaniel	X				X	
German Shepherd			X			X
German Short/Wirehaired Pointer		X			X	
Golden Retriever		X		Leave Intact		
Great Dane	X			X		
Irish Wolfhound			X	X		
Jack Russell Terrier	X			X		
Labrador Retriever	X				X	
Maltese	X			X		
Mastiff			X		X	
Miniature Schnauzer	X			X		
Newfoundland		X			X	
Pomeranian	X			X		
Poodle (Toy)	X			X		
Poodle (Miniature)		X		X		
Poodle (Standard)			X	X		
Pug	X			X*		
Rhodesian Ridgeback	X			X		
Rottweiler		X		X		
Saint Bernard	X			X		
Shetland Sheepdog	X					X**
Shih Tzu	X					X
Siberian Husky	X				X	
West Highland White Terrier	X			X		
Yorkshire Terrier	X			X		

Summary of spaying and neutering guidelines based on findings regarding joint disorders and cancers. *Australian Shepherd and Pug female dogs had no statistically significantly elevated joint disorders or cancers with early neutering. Nonetheless, they are examples of breeds with more joint disorders and/or cancer cases among the early neutered animals, and these may have become significant in a larger dataset (12). **This recommendation for Doberman Pinscher and Shetland Sheepdog females is based on their elevated risks of UI, not joint disorders or cancers (12).