Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)	
Alendronate vs. placebo							
Black 1996 ⁵⁵ (FIT I)	Any AE: PBO, 819/1005 (81.5%) ALN10mg/d, 724/1022 (70.8%) Withdrawals due to AE: PBO, 96/1005 (9.6%) ALN10mg/d, 78/1022 (7.6%) Hospitalisation: PBO, 300/1005 (29.9%) ALN10mg/d, 250/1022 (24.5%) Death: PBO, 21/1005 (2.1%) ALN10mg/d, 24/1022 (2.3%)	Any UGI: PBO, 402/1005 (40%) ALN10mg/d, 422/1022 (41.3%) Dyspepsia: PBO, 158/1005 (15.7%) ALN10mg/d, 155/1022 (15.2%) Abdominal pain: PBO, 98/1005 (9.8%) ALN10mg/d, 121/1022 (11.8%) Nausea: PBO, 97/1005 (9.7%) ALN10mg/d, 96/1022 (9.4%) Oesophagitis: PBO, 4/1005(0.4% ALN10mg/d, 7/1022 (0.7%) Oesophageal ulcer: PBO, 2/1005 (0.2%) ALN10mg/d, 3/1022 (0.3%) Duodenal ulcer, PBO, 6/1005 (0.6%) ALN10mg/d, 2/1022 (0.2%) Acid regurgitation: PBO, 71/1005 (7.1%) ALN10mg/d, 7/1022 (6.9%) Gastritis: PBO, 20/1005 (2%) ALN10mg/d, 7/1022 (2.3%) Gastric ulcer: PBO, 16/1005 (1.6%) ALN10mg/d, 7/1022 (0.7%) Other oesophageal: PBO, 11/1005 (1.2%)					

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis– n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other-n/N (%)
		Other gastric: PBO, 2/1005 (0.2%) ALN10mg/d, 4/1022 (0.4%)				
Cummings 1998 ⁶⁴ (FIT II)	Death: PBO, 40/2218 (1.8%) ALN10mg/d, 37/2214 (1.7%) Hospitalisation: PBO, 596/2218 (26.9%) ALN10mg/d, 644/2214 (29.1%) Withdrawals due to AE: PBO, 227/2218 ALN10mg/d, 221/2214	Any UGI: PBO, 1047/2218 (47.2) ALN10mg/d, 1052/2214 (47.5%) Abdominal pain: PBO, 325/2218(14.7%) ALN10mg/d, 322/2057 (14.5%) Oesophagitis: PBO, 10/2218 (0.5%) ALN10mg/d, 19/2214 (0.9%) Oesophageal ulcer: PBO, 4/2218 (0.2%) ALN10mg/d, 4/2214 (0.2%) Acid regurgitation: PBO, 194/2218 (8.7%) ALN10mg/d, 204/2214 (9.2%) Other oesophageal: PBO, 41/2218 (1.8%) ALN10mg/d, 4/4/2214 (2%)				
Greenspan 2003 ⁶⁸	Hospitalisations: PBO, 26/93 (28%) ALN10mg/d, 34/93 (37%)	Dysphagia: PBO, 2/93 (2.0%) ALN10mg/d, 3/93 (3.0%) Oesophagitis: PBO, 21/93 (23%) ALN10mg/d, 26/93 (28%) Indigestion, PBO, 4/93 (4%) ALN10mg/d, 6/93 (6%) Heartburn: PBO, 15/93 (16%) ALN10mg/d, 17/93 (18%)				Myocardial infarction: PBO, 1/93 (1.0%) ALN10mg/d, 2/93 (2.0%) High blood pressure: PBO, 3/93 (3.0%) ALN10mg/d, 5/93 (5.0%) Deep venous thrombosis: PBO, 0/93 (0%) ALN10mg/d, 1/93 (1%) Menstrual spotting: PBO, 9/93 (10%) ALN10mg/d, 7/93 (8%) Menstrual Cramps:

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
						PBO, 0/93 (0%) ALN10mg/d, 0/93 (0%) Endometrial biopsy: PBO, 1/93 (1%) ALN10mg/d, 2/93 (2%) Peripheral oedema: PBO, 12/93 (13%) ALN10mg/d, 9/93 (10%) Weight gain: PBO, 8/93 (9%) ALN10mg/d, 6/93 (6%) Chest pain: PBO, 13/93 (14%) ALN10mg/d, 16/93 (17%) Endometrial biopsy: PBO, 1/93 (1%) ALN10mg/d, 2/93 (2%) Breast tenderness: PBO, 16/93 (17%) ALN10mg/d, 22/93 (24%) Falls: PBO, 42/93 (45%) ALN10mg/d, 52/93 (56%)
Greenspan 2002 ⁶⁷	Any AE: PBO, 153/164 (35.0%) ALN10mg/d, 152/163 (33.0%)	Any UGI: PBO, 57/164 (35%) ALN10mg/d, 54/163 (33%) Any serious UGI: PBO, 3/164 (1.9%) ALN10mg/d, 1/163 (0.6%)				

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
Liberman 1995 ⁷⁶	Withdrawals due to AE: PBO, 24/397 (6%) ALN10mg/d, 8/196 (4.1%)	Discontinue due to UGI: PBO, 8/397 (2.0%) ALN10mg/d, 2/196 (1.0%) Abdominal pain: PBO, 19/397 (4.8%) ALN10mg/d, 13/196 (6.6%) Nausea: PBO, 16/397 (4%) ALN10mg/d, 7/196 (3.6%) Dyspepsia: PBO, 14/397 (3.5%) ALN10mg/d, 7/196 (3.6%)				Musculoskeletal pain: PBO, 10/397 (2.5%) ALN10mg/d, 8/196 (4.1%) Constipation: PBO, 7/397 (1.8%) ALN10mg/d, 7/196 (3.1%) Diarrohea: PBO, 12/397 (3.1%) ALN10mg/d, 4/196 (1.8%)
Orwoll 2000 83	Serious AE: PBO, 22/95 (23%) ALN10mg/d, 27/146 (18%) Withdrawals due to AE: PBO, 10/95 (11.0%) ALN10mg/d, 4/146 (3.0%)	Any UGI: PBO, 21/95 (22%) ALN10mg/d, 37/146 (25%) Abdominal pain: PBO, 4/95 (4%) ALN10mg/d, 12/146 (8%) Dyspepsia: PBO, 1/95 (1%) ALN10mg/d, 9/146 (6%) Acid regurgitation: PBO, 5/95 (5%) ALN10mg/d, 7/146 (5%) Oesophagitis: PBO, 1/95 (1%) ALN10mg/d, 1/146 (1%)				Nervous system: PBO, 19/95 (20%) ALN10mg/d, 37/146 (25%) Skin: PBO, 21/95 (22%) ALN10mg/d, 33/146 (23%) Urogenital: PBO, 16/95 (17%) ALN10mg/d, 25/146 (17%) Respiratory: PBO, 47/95 (49%) ALN10mg/d, 66/146 (45%) Musculoskeletal: PBO, 50/95 (53%) ALN10mg/d, 68/146 (47%) Cardiovascular: PBO, 16/95 (17%) ALN10mg/d, 23/146 (16%)

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)
Pols 1999 ⁸⁴ (FOSIT)	Any AE: PBO, 643/958 (67.1%) ALN10mg/d, 662/950 (69.7%) Serious AE: PBO, 63/958 (6.5%) ALN10mg/d, 60/950 (6.3%) Withdrawals due to AE: PBO, 61/958 (6.4%) ALN10mg/d, 53/950 (5.6%)	Any UGI: PBO, 185/958 (19.3%) ALN10mg/d, 202/950 (21.3%) Dyspepsia: PBO, 2/958 (0.2%) ALN10mg/d, 24/950 (2.5%) Abdominal pain: PBO, 81/958 (8.5%) ALN10mg/d, 95/950 (10%) Nausea: PBO, 37/958 (3.9%) ALN10mg/d, 44/950 (4.6%) Acid regurgitation: PBO, 24/958, (2.5%) ALN10mg/d, 22/950, (2.3%) Gastritis: PBO, 20/958 (2.1%) ALN10mg/d, 26/950 (2.8%) Gastric ulcer: PBO, 1/958 (0.1%) ALN10mg/d, 4/950 (0.4%) Reflux oesophagitis: PBO, 3/958 (0.3%) ALN10mg/d, 4/950 (0.4%) Oesophagitis: PBO, 3/958 (0.3%) ALN10mg/d, 4/950 (0.4%) Duodenal ulcer: PBO, 3/958 (0.3%) ALN10mg/d, 0/950 (0%) Oesophagalgia: PBO, 0/958 (0%) ALN10mg/d, 2/950 (0.2%) Odynophagia: PBO, 1/958 (0.1%) ALN10mg/d, 0/950 (0%) Oesophageal stricture: PBO, 0/958 (0%) ALN10mg/d, 0/950 (0%) Oesophageal stricture: PBO, 0/958 (0%) ALN10mg/d, 1/950 (0.1%)				

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)
Saag 1998 ⁹¹	Any AE: PBO, 126/159 (79%) ALN10mg/d, 662/950 (69.7%) Serious AE: PBO, 34/159 (21%) ALN10mg/d, 60/950 (6.3%) Withdrawals due to AE: PBO, 8/159 (5%) ALN10mg/d, 53/950 (5.6%)	Any UGI: PBO, 26/159 (16%) ALN10mg/d, 40/157 (25%) Serious UGI: PBO, 2/159 (1%) ALN10mg/d, 2/157 (1%) Oesophageal irritation: PBO, 4/159 (3%) ALN10mg/d, 3/157 (2%) Abdominal pain: PBO, 8/159 (5%) ALN10mg/d, 15/157 (10%) Peptic ulcer: PBO, 2/159 (1%) ALN10mg/d, 2/157 (1%)				Musculoskeletal pain: PBO, 25/159 (16%) ALN10mg/d, 25/157 (16%)
Bone 2000 ⁵⁷	Any AE: PBO, 45/50 (90% ALN10mg/d, 80/92 (87%) Serious AE: PBO, 5/50 (10%) ALN10mg/d, 13/92 (14%) Withdrawals due to AE: PBO, 5/50 (10%) ALN10mg/d, 6/92 (6%)	Any UGI: PBO, 11/50 (22%) ALN10mg/d, 25/92 (27%) Dyspepsia: PBO, 3/50 (6%) ALN10mg/d, 7/92 (8%) Abdominal pain: PBO, 2/50 (4%) ALN10mg/d, 7/92 (8%) Peptic ulcer: PBO, 0/50 (0%) ALN10mg/d, 0/92 (0%) Oesophagitis: PBO, 2/50 (4%) ALN10mg/d, 5/92 (5%)				

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)
Ibandronate vs. pla	cebo		1	1 (1)		
McClung 2009 ⁸⁰ USA.	Any AE: PBO, 64/83 (77.1%) IBN150mg/m, 60/77 (77.9%) Serious AE: PBO, 1/83 (1.2%) IBN150mg/m, 3/77 (3.9%) Withdrawals due to AE: PBO, 3/83 (3.6%) IBN150mg/m, 7/77	Any UGI: PBO, 20/83 (24.1%) IBN150mg/m, 24/77 (31.2%) Dyspepsia: PBO, 4/83 (4.8%) IBN150mg/m, 4/77 (5.2%) Reflux oesophagitis: PBO, 3/83 (3.6%) IBN150mg/m, 4/77 (5.2%) Nausea: PBO, 3/83 (3.6%)	Flu-like symptoms PBO, 0/83 (0%) IBN150mg/m, 4/83 (5.2%)			Arthralgia: PBO, 8/83 (9.6%) IBN150mg/m, 12/77 (15.6%) Myalgia: PBO, 2/83 (2.4%) IBN150mg/m, 5/77 (6.5%)
Chesnut 2004 ⁴⁵ (BONE)	(9.1%) Any AE: PBO, 867/975 (88.9%) IBN2.5mg/d, 879/977 (90%) Serious AE: PBO, 211/975 (21.6%) IBN2.5mg/d, 234/977 (24%) Withdrawals due to AE: PBO, 183/975 (18.9%) IBN2.5mg/d, 181/977 (18.5%) Deaths: PBO, 10/975 (1%) IBN2.5mg/d, 11/977 (1.1%)	IBN150mg/m, 5/77 (6.5%) Duodenal ulcer: PBO, 9/975 (0.9%) IBN2.5mg/d, 1/977 (0.1%) Dyspepsia: PBO, 89/975 (9.1%) IBN2.5mg/d, 111/977 (11.4%) Belching: PBO, 2/975 (0.2%) IBN2.5mg/d, 4/977 (0.4%) Gastritis: PBO, 21/975 (2.2%) IBN2.5mg/d, 22/977 (2.3%) Gastroenteritis: PBO, 54/975 (5.5%) IBN2.5mg/d, 54/977 (5.5%) GI pain: PBO, 25/975 (2.6%) IBN2.5mg/d, 19/977 (1.9%) Nausea: PBO, 61/975 (6.3%) IBN2.5mg/d, 41/977 (4.2%) Oesophageal ulcer: PBO, 1/975 (0.1%) IBN2.5mg/d, 2/977 (0.2%) Oesophageal stenosis: PBO, 1/975 (0.1%)				

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
		IBN2.5mg/d, 0/977 (0%) Oesophagitis: PBO, 10/975 (1%) IBN2.5mg/d, 15/977 (1.5%) Stomach ulcer: PBO, 6/975 (0.6%) IBN2.5mg/d, 3/977 (0.3%) Vomiting: PBO, 24/975 (2.5%) IBN2.5mg/d, 29/977 (3%)				
Risedronate vs. plac	cebo		•	ı		
McClung 2001 ⁷⁸ (HIPS)	Any AE: PBO, 2805/3134 (89.5%) RIS5mg/d, 2786/3104 (89.8%) Serious AE: PBO, 973/3134 (31%) RIS5mg/d, 943/3104 (30.3%) Withdrawals due to AE: PBO, 564/3134 (18.0%) RIS5mg/d, 550/3104 (17.7%)	Any UGI: PBO, 684/3134 (21.8%) RIS5mg/d, 657/3104 (21.2%) Moderate to severe: PBO, 258/3134 (8.3%) RIS5mg/d, 279/3104 (9%) Abdominal pain: PBO, 288/3134 (9.2%) RIS5mg/d, 250/3104 (8.1%) Dyspepsia: PBO, 254/3134 (8.1%) RIS5mg/d, 255/3104 (8.2%) Oesophagitis: PBO, 59/3134 (1.9%) RIS5mg/d, 54/3104 (1.7%) Oesophageal ulcer: PBO, 14/3134 (0.4%) RIS5mg/d, 9/3104 (0.3%)				
Fogelman 2000 ⁶⁶ (BMD-MN)	Any AE: PBO, 172/180 (95.6%) RIS5mg/d, 169/177 (95.5%) Serious AE: PBO, 27/180 (15%) RIS5mg/d, 26/177 (15%) Withdrawals due to AE:	Any UGI: PBO, 47/180 (26.0%) RIS5mg/d, 40/177 (23.0%) Abdominal pain: PBO, 22/180 (12%) RIS5mg/d, 23/177 (13%) Dyspepsia: PBO, 18/180 (10.0%) RIS5mg/d, 15/177 (8%)				

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other— n/N (%)
	PBO, 14/180 (8.0%) RIS5mg/d, 19/177 (11.0%)	Oesophagitis: PBO, 4/180, (2%) RIS5mg/d, 3/177, (2%) Gastritis: PBO, 0/180 (0%) RIS5mg/d, 3/177 (2%) Oesophageal ulcer: PBO, 1/180 (1%) RIS5mg/d, 3/177 (2%) Stomach ulcer: PBO, 5/180 (3%) RIS5mg/d, 1/177 (1%)				
Harris 1999 ⁷⁰ (VERT-NA)	Any AE: PBO, 774/815 (95.0%) RIS5mg/d, 785/813 (97.0%) Serious AE: PBO, 219/815 (27%) RIS5mg/d, 237/813 (29%) Withdrawals due to AE: PBO, 136/815 (17.0%) RIS5mg/d, 138/812 (17.0%)	Any UGI: PBO, 219/815 (27.0%) RIS5mg/d, 245/813 (30.0%) Moderate-to-severe UGI: PBO, 102/815 (13%) RIS5mg/d, 106/813 (13%) Dyspepsia: PBO, 92/815 (11.0%) RIS5mg/d, 105/813 (12.9%) Abdominal pain: PBO, 97/815 (12%) RIS5mg/d, 103/813 (13%) Gastritis: PBO, 23/815 (3%) RIS5mg/d, 31/813 (4%) Oesophagitis: PBO, 13/815, (2%) RIS5mg/d, 11/813, (1%) Duodenitis PBO, 2/815 (0.2%) RIS5mg/d, 9/813 (1%)				
Sorensen 2003 ¹⁰⁰ (VERT-NA extension)	Serious AE: PBO, 39/130 (30%) RIS5mg/d, 33/135 (24.4%) Withdrawals due to AE: PBO, 16/130 (12.3%)	Any UGI: PBO, 18/130 (13.8%) RIS5mg/d, 17/135 (12.2%) Dyspepsia: PBO, 4/130 (3.1%) RIS5mg/d, 9/135 (6.7%)				

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
	RIS5mg/d, 10/135 (7.4%)	Abdominal pain: PBO, 7/130 (5.4%) RIS5mg/d, 7/135 (5.2%) Oesophagitis: PBO, 1/130 (0.8%) RIS5mg/d, 2/135 (1.5%) Oesophageal ulcer: PBO, 1/130 (0.8%) RIS5mg/d, 1/135 (0.7%) Gastritis: PBO, 3/130 (2.3%) RIS5mg/d, 1/135 (0.7%) Gastric ulcer: PBO, 1/130 (0.8%) RIS5mg/d, 1/135 (0.7%) Gastric ulcer: PBO, 1/130 (0.8%) RIS5mg/d, 0/135 (0%)				
Hooper 2005 ⁷² (VERT-MN)	Any AE: PBO, 115/125 (92.0%) RIS5mg/d, 122/129 (95.0%) Serious AE: PBO, 22/125 (18%) RIS5mg/d, 12/129 (9%) Withdrawals due to AE: PBO, 8/125 (6.0%) RIS5mg/d, 7/129 (5.0%)	Any UGI: PBO, 20/125 (16.0%) RIS5mg/d, 25/129 (19.0%) Dyspepsia: PBO, 12/125 (9.6%) RIS5mg/d, 8/129 (6.2%) Abdominal pain: PBO, 6/125 (4.8%) RIS5mg/d, 9/129 (7%) Oesophagitis: PBO, 4/125 (3.2%) RIS5mg/d, 4/129 (3.1%) GI disorder: PBO, 2/125 (1.6%) RIS5mg/d, 4/129 (3.1%)				
		Gastritis: PBO, 3/125 (2.4%) RIS5mg/d, 2/129 (1.6%) Oesophageal ulcer: PBO, 2/125 (1.6%) RIS5mg/d, 1/129 (0.8%) Stomach ulcer: PBO, 1/125 (0.8%) RIS5mg/d, 0/129 (0%)				

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)
		Duodenal ulcer: PBO, 0/125 (0%) RIS5mg/d, 1/129 (0.8%)				
Reginster 2000 85 (VERT-MN)	Any AE: PBO, 370/407 (91.0%) RIS5mg/d, 374/407 (92.0%) Serious AE: PBO, 135/407 (33%) RIS5mg/d, 151/407 (37%) Withdrawals due to AE: PBO, 81/407 (20%) RIS5mg/d, 63/407 (15%)	Any UGI: PBO, 104/407 (26.0%) RIS5mg/d, 109/407 (27.0%) Abdominal pain: PBO, 32/407 (8%) RIS5mg/d, 50/407 (12%) Dyspepsia: PBO, 44/407 (11.0%) RIS5mg/d, 36/407 (9.0%) Oesophagitis: PBO, 11/407 (3%) RIS5mg/d, 10/407 (2%) Gastritis: PBO, 14/407(3%) RIS5mg/d, 9/407(2%) Stomach ulcer: PBO, 2/407 (0.5%) RIS5mg/d, 6/407 (1%) Duodentitis: PBO, 0/407 (0%) RIS5mg/d, 2/407 (0.5%) Oesophageal ulcer: PBO, 3/407 (1%) RIS5mg/d, 2/407 (0.5%) Duodenal ulcer: PBO, 1/407 (0.5%) RIS5mg/d, 2/407 (0.5%) Duodenal ulcer: PBO, 1/407 (0.5%) RIS5mg/d, 2/407 (0.5%) RIS5mg/d, 2/407 (0.5%)				Cancer: PBO, 17/407 (4.2%) RIS5mg/d, 19/407 (4.7%) Cardiovascular: PBO, 38/407 (9.3%) RIS5mg/d, 38/407 (9.3%)
Boonen 2009 ⁵⁸	Any AE: PBO, 68/93 (73%) RIS35mg/w, 134/191 (70%) Serious AE: PBO, 15/93 (16%) RIS35mg/w, 29/191 (15%) Withdrawals due to AE:	Any UGI: PBO, 17/93 (18%) RIS35mg/w, 16/191 (8%) Moderate to severe UGI: PBO, 4/93 (4%) RIS35mg/w, 6/191 (3%) Constipation: PBO, 5/93 (5%) RIS35mg/w, 16/191 (8%)	Influenza: PBO, 5/93 (5%) RIS35mg/w, 11/191 (6%)			Arthralgia: PBO, 8/93 (9%) RIS35mg/w, 11/191 (6%) Back pain: PBO, 2/93 (2%) RIS35mg/w, 13/191 (7%) Nasopharyngitis: PBO, 5/93 (5%) RIS35mg/w, 11/191 (6%)

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)
	PBO, 9/93 (9.7%) RIS35mg/w, 7/191 (3.7%) Death: PBO, 3/93 (3%) RIS35mg/w, 2/191 (1%)					Headache: PBO, 0/93 (0%) RIS35mg/w, 10/191 (5%)
Zoledronate vs. plac	cebo					
Black 2007 ⁵⁶ (HORIZON-PFT)	Any AE: PBO, 3616/3852 (93.9%) ZOL5mg/y, 3688/3862 (95.5%) Serious AE: PBO, 1158/3852 (30.1%) ZOL5mg/y, 1126/3862 (29.2%) Withdrawals due to AE: PBO, 70/3852 (1.8%) ZOL5mg/y, 80/3862 (2.1%) Death: PBO, 112/3852 (2.9%) ZOL5mg/y, 130/3862 (3.4%)		Flu-like symptoms: PBO, 61/3852 (1.6%) ZOL5mg/y, 301/3862 (7.8%)	Osteonecrosis of the jaw: Reports that no cases of osteonecrosis of the jaw were observed	Atrial fibrillation: PBO, 73/3852 (1.9%) ZOL5mg/y, 94/3862 (2.4%) Serious: PBO, 20/3852 (0.5%) ZOL5mg/y, 50/3862 (1.3%)	Pyrexia: PBO, 79/3852 (2.1%) ZOL5mg/y, 621/3862 (16.1%) Headache: PBO, 90/3852 (2.3%) ZOL5mg/y, 273/3862 (7.1%) Arthralgia: PBO, 76/3852 (2.0%) ZOL5mg/y, 245/3862 (6.3%) Myalgia: PBO, 66/3852 (1.7%) ZOL5mg/y, 365/3862 (9.5%) Myocardial infarction: PBO, 45/3852 (1.2%) ZOL5mg/y, 38/3862 (1.0%)
Reid <i>et al.</i> , 2010 ¹⁰² (HORIZON-PFT) Adverse events in first three days following administration		Any UGI: PBO, 80/3852 (2.1%) ZOL5mg/y, 300/3862 (7.8%) Abdominal pain: PBO, 17/3852 (0.4%) ZOL5mg/y, 40/3862 (1.0%) Anorexia:	Flu-like symptoms: PBO, 49/3852 (1.3%) ZOL5mg/y, 303/3862 (7.8%) Fever: PBO, 70/3852 (1.8%)			Eye inflammation: PBO, 2/3852 (0.1%) ZOL5mg/y, 14/3862 (0.4%) Eye pain: PBO, 0/3852 (0.0%) ZOL5mg/y, 9/3862 (0.2%) Dizziness/vertigo: PBO,

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)
		PBO, 7/3852 (0.2%) ZOL5mg/y, 45/3862 (1.2%) Diarrhoea: PBO, 23/3852 (0.6%) ZOL5mg/y, 55/3862 (1.4%) Nausea: PBO, 37/3852 (1.0%) ZOL5mg/y, 158/3862 (4.1%) Vomiting: PBO, 6/3852 (0.2%) ZOL5mg/y, 73/3862 (1.9%)	ZOL5mg/y, 663/3862 (17.2%) Chills: PBO, 23/3852 (0.6%) ZOL5mg/y, 171/3862 (4.4%) Any – fever, chills, hot flush: PBO, 96/3852 (2.5%) ZOL5mg/y, 785/3862 (20.3%)			40/3852 (1.0%) ZOL5mg/y, 75/3862 (1.9%) Oedema peripheral: PBO, 4/3852 (0.1%) ZOL5mg/y, 18/3862 (0.5%) Syncope: PBO, 0/3852 (0.0%) ZOL5mg/y, 7/3862 (0.2%) Pain: PBO, 11/3852 (0.3%) ZOL5mg/y, 74/3862 (1.9%) Thirst: PBO, 0/3852 (0.0%) ZOL5mg/y, 11/3862 (0.3%) JOL5mg/y, 11/3862 (0.3%) ZOL5mg/y, 11/3862 (0.3%) Joint swelling: PBO, 180/3852 (1.9%) ZOL5mg/y, 14/3862 (0.4%) Musculoskeletal pain: PBO, 73/3852 (1.9%) ZOL5mg/y, 190/3862 (4.9%) Musculoskeletal stiffness: PBO, 5/3852 (0.1%) ZOL5mg/y, 190/3862 (4.9%) Musculoskeletal stiffness: PBO, 5/3852 (0.1%) ZOL5mg/y, 37/3862

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)
						(1.0%) Diffuse musculoskeletal pain: PBO, 114/3582 (3.0%) ZOL5mg/y, 606/3862 (15.7%) Nasopharyngitis: PBO, 5/3852 (0.1%) ZOL5mg/y, 17/3862 (0.4%) Headache: PBO, 59/3852 (1.5%) ZOL5mg/y, 225/3862 (5.8%) Malaise: PBO, 16/3852 (0.4%) ZOL5mg/y, 45/3862 (1.2%) Fatigue: PBO, 63/3852 (1.6%) ZOL5mg/y, 45/3862 (5.3%)
Lyles 2007 ⁷⁷ (HORIZON-RFT)	Any AE: PBO, 852/1057 (80.6%) ZOL5mg/y, 867/1054 (82.3%) Serious AE: PBO, 436/1057 (41.2%) ZOL5mg/y, 404/1054 (38.3%) Withdrawals due to AE: PBO, 18/1057 (1.7%) ZOL5mg/y, 21/1054 (2.0%) Death: PBO, 141/1057 (13.3%) ZOL5mg/y, 101/1054 (9.6%)		Flu-like symptoms: PBO, 3/1057 (0.3%) ZOL5mg/y, 6/1054 (0.6%)	Osteonecrosis of the jaw: Reports that no cases of osteonecrosis of the jaw were observed	Atrial fibrillation: PBO, 38/1057 (3.6%) ZOL5mg/y, 46/1054 (4.4%) Stroke: PBO, 38/1057 (3.6%) ZOL5mg/y, 46/1054 (4.4%)	Serum creatinine >0.5 mg/dl: PBO, 50/900 (5.6%) ZOL5mg/y, 55/886 (6.2%) Creatinine clearance <30 ml/min: PBO, 65/891 (7.3%) ZOL5mg/y, 72/882 (8.2%) Arthralgia: PBO, 23/1057 (2.2%) ZOL5mg/y, 33/1054 (3.1%) Myalgia: PBO, 9/1057 (0.9%) ZOL5mg/y, 33/1054 (3.1%) Pyrexia: PBO, 9/1057 (0.9%)

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
						ZOL5mg/y, 73/1054 (6.9%) Headache: PBO, 9/1057 (0.9%) ZOL5mg/y, 16/1054 (1.5%) Myocardial infarction: PBO, 17/1057 (1.6%) ZOL5mg/y, 13/1054 (1.2%)
Boonen 2012 ⁵⁹	Any AE: PBO, 466/611 (76.3) ZOL5mg/y, 534/588 (90.8) Serious AE: PBO, 154/611 (25.2) ZOL5mg/y, 149/588 (25.3) Death: PBO, 18/611 (2.9) ZOL5mg/y, 15/588 (2.6)			Osteonecrosis of the jaw: Reports that no cases of osteonecrosis of the jaw were observed		Pyrexia: PBO, 23/611 (3.8%) ZOL5mg/y, 143/588 (24.3%) Myalgia: PBO, 25/611 (4.1%) ZOL5mg/y, 129/588 (21.9%) Headache: PBO, 27/611 (4.4%) ZOL5mg/y, 82/588 (13.9%) Arthralgia: PBO, 68/611 (11.1%) ZOL5mg/y, 123/588 (20.9%) Back pain: PBO, 74/611 (12.1%) ZOL5mg/y, 84/588 (14.3%) Myocardial infarction: PBO, 2/611 (0.3%) ZOL5mg/y, 9/588 (1.5%) Cardiac failure: PBO, 4/611 (0.7%) ZOL5mg/y, 1/588 (0.2%) Hypertension: PBO, 4/6/611 (7.5%) ZOL5mg/y, 50/588 (8.5%) Cardiac disorder:

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
						PBO, 30/611 (4.9%) ZOL5mg/y, 31/588 (5.3%) Angina pectoris: PBO, 7/611 (1.1%) ZOL5mg/y, 6/588 (1.0%)
McClung 2009 ⁷⁹	Any AE: PBO, 186/202 (92.1%) ZOL5mg/y, 173/181 (95.6%)	Nausea: PBO, 16/202 (7.9%) ZOL5mg/y, 21/181 (11.6%)		Osteonecrosis of the jaw: Reports that no cases of osteonecrosis of the jaw were observed		Urinary tract infection: PBO, 25/202 (12.4%) ZOL5mg/y, 16/181 (8.8%) Upper Respiratory tract infection PBO, 23/202 (11.4%) ZOL5mg/y, 19/181 (10.5%) Pyrexia: PBO, 9/202 (45%) ZOL5mg/y, 38/181 (21.0%) Chills: PBO, 6/202 (3.0%) ZOL5mg/y, 33/181 (18.2%) Fatigue: PBO, 8/202 (4.0%) ZOL5mg/y, 18/181 (9.9%) Headache: PBO, 23/202 (11.4%), ZOL5mg/y, 18/181 (9.9%) Headache: PBO, 23/202 (11.4%), ZOL5mg/y, 17/181 (9.4%) Arthralgia: PBO, 39/202 (19.3%) ZOL5mg/y, 34/181 (18.8%) Pain: PBO, 7/202 (3.5%) ZOL5mg/y, 27/181 (14.9%) Myalgia:

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis– n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
						PBO, 14/202 (6.9%) ZOL5mg/y, 41/181 (22.7%) Back pain: PBO, 24/202 (11.9%) ZOL5mg/y, 30/181 (16.6%) Pain in extremity: PBO, 20/202 (9.9%) ZOL5mg/y, 29/181 (16.0%)
Head-to-head – Zol Reid 2009 ⁸⁸	ledronate vs. risedronate	701 5 mg/y vg DIG5 / 1	Ela lila monto	Dana main	Atrial Chaillation	ZOI treatment DIC
Reid 2009°° (HORIZON)	ZOL5mg/y vs. RIS5mg/d – treatment subgroup: Any AE: 211/272 (78%) vs. 186/273 (68%) Serious AE: 50/272 (18%) vs. 54/237 (20%) Withdrawals due to AE: 3/272 (1%) vs. 3/273 (1%) Death: 3/272 (1%) vs. 3/273 (1%) ZOL5mg/y vs. RIS5mg/d – prevention subgroup: Any AE: 111/144 (77%) vs. 93/144 (65%) Serious AE: 26/144 (18%) vs. 23/144 (16%) Withdrawals due to AE: 6/144 (4%) vs. 3/144 (2%)	ZOL5mg/y vs. RIS5mg/d — treatment subgroup: Upper abdominal pain 16/272 (6%) vs. 9/273 (3%) Abdominal pain 7/272 (3%) vs. 6/273 (2%) Dyspepsia 15/272 (6%) vs. 13/273 (5%) Nausea 30/272 (11%) vs. 21/273 (8%) Vomiting 17/272 (6%) vs. 7/273 (3%) Gastritis 2/272 (1%) vs. 4/273 (1%) Gastro-oesophageal reflux 3/272 (1%) vs. 1/273 (<1%) ZOL5mg/y vs. RIS5mg/d — prevention subgroup: Upper abdominal pain 5/141 (3%) vs. 4/141 (3%) vs. 4/141 (3%) Dyspepsia 8/141 (6%) vs. 5/141 (3%) Nausea 10/141 (7%) vs. 14/141 (10%)	Flu-like symptoms Treatment subgroup: ZOL5mg/y 15 (6%) RIS5mg/d 3 (1%) Prevention subgroup: ZOL5mg/y 10 (7%) RIS5mg/d 1 (1%)	Bone pain: Treatment subgroup: ZOL5mg/y 13 (5%) RIS5mg/d 5 (2%) Prevention subgroup: ZOL5mg/y 0 (0%) RIS5mg/d 4 (3%) Osteonecrosis of the jaw: Reports that no cases of osteonecrosis of the jaw were observed	Atrial fibrillation: Treatment subgroup: ZOL5mg/y 0 (0%) RIS5mg/d 0 (0%) Prevention subgroup: ZOL5mg/y 3 (2%) RIS5mg/d 0 (0%)	ZOL treatment, RIS treatment, ZOL prevention, RIS prevention: Worsening rheumatoid arthritis 21 (8%) 17 (6%) 5 (3%) 4 (3%) Constipation 5 (2%) 7 (3%) 4 (3%) 3 (2%) Diarrhoea 12 (4%) 10 (4%) 3 (2%) 0 (0%) Rectal haemorrhage 1 (<1%) 0 (0%) 3 (2%) 0 (0%) Urinary tract infection 16 (6%) 13 (5%) 5 (3%) 4 (3%) Back pain 14 (5%) 17 (6%) 4 (3%) 9 (6%) Hypertension 14 (5%) 11 (4%) 4 (3%) 6 (4%) Asthenia 9 (3%) 6 (2%) 7 (5%) 9 (6%) Anaemia 8 (3%) 10 (4%) 2 (1%) 2 (1%) Vertigo 6 (2%) 3 (1%) 2 (1%) Fatigue 8 (3%) 4 (1%) 5

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)
	Death: 1/144 (<1%) vs. 0/144 (0%)	Vomiting 3/141 (2%) vs. 3/141 (2%) Gastritis 3/141 (2%) vs. 2/141 (1%) Gastro-oesophageal reflux 2/141 (1%) vs. 5/141 (3%)				(3%) 2 (1%) Oedema peripheral 7 (3%) 6 (2%) 5 (3%) 3 (2%) Weight increase 7 (3%) 8 (3%) 2 (1%) 5 (3%) Pain in limbs 8 (3%) 2 (1%) 5 (3%) Musculoskeletal chest pain 7 (3%) 0 (0%) 1 (1%) 0 (0%) Dizziness 7 (3%) 2 (1%) 3 (2%) 2 (1%) 3 (2%) 2 (1%) Sciatica 7 (3%) 0 (0%) 3 (2%) 1 (1%) Insomnia 7 (3%) 3 (1%) 1 (1%) 3 (2%) Rash 3 (1%) 7 (3%) 0 (0%) 1 (1%) Allergic dermatitis 2 (1%) 6 (2%) 0 (0%) 2 (1%) Palpitations 1 (<1%) 0 (0%) 3 (2%) 3 (2%) Chest pain 1 (<1%) 0 (0%) 1 (1%) 4 (3%) 3 (2%) Cataract 3 (1%) 4 (1%) 4 (3%) 3 (2%) Keratoconjunctivitis sicca 0 (0%) 0 3 (2%) 0 (0%) Bronchitis 2 (1%) 1 (<1%) 3 (2%) (0%) Bronchitis 2 (1%) 1 (<1%) 3 (2%) (0%) Bronchitis 2 (1%) 1 (<1%) 3 (2%) 1 (1%) Fall 4 (1%) 4 (1%) 3 (2%) 0 (0%) Musculoskeletal stiff ness 1 (<1%) 0 (0%) 4 (3%) 1 (1%) Joint swelling 1 (<1%) 2 (1%) 3 (2%) 0 (0%) Musculoskeletal pain 5

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other– n/N (%)
						(2%) 2 (1%) 1 (1%) 5 (3%) Anxiety 1 (<1%) 3 (1%) 3 (2%) 2 (1%) Depression 4 (1%) 5 (2%) 3 (2%) 2 (1%) Proteinuria 4 (1%) 0 (0%) 0 3 (2%) Paraesthesia 2 (1%) 1 (<1%) 4 (3%) 1 (1%)
Head-to-head – Ale	ndronate vs. Ibandronate	1				
Miller 2008 ⁸¹ (MOTION)	Any AE: ALN70mg/w, 659/859 (75.4%) IBN150mg/m, 632/874 (73.6%) Serious AE: ALN70mg/w, 39/859 (4.5%) IBN150mg/m, 55/874 (6.4%) Death: ALN70mg/w, 2/859 (0.2%) IBN150mg/m, 4/874 (0.5%)	Dyspepsia: ALN70mg/w, 48/859 (5.6%) IBN150mg/m, 60/874 (6.9%)	Influenza: ALN70mg/w, 36/859 (4.2%) IBN150mg/m, 49/874 (5.6%)			Nasopharyngitis: ALN70mg/w, 41/859 (4.8%) IBN150mg/m, 51/874 (5.8%) Arthralgia: ALN70mg/w, 49/859 (5.7%) IBN150mg/m, 47/874 (5.5%) Back pain: ALN70mg/w, 45/859 (5.2%) IBN150mg/m, 60/874 (6.9%) Hypertension: ALN70mg/w, 51/859 (5.9%) IBN150mg/m, 68/874 (7.8%)
	ndronate vs. Risedronate					
Rosen 2005 ⁹⁰ (FACT)	Any AE: ALN70mg/w, 394/515 (76.5%) RIS35mg/w, 399/527 (76.1%) Serious AE:	Upper GI: ALN70mg/w, 116/515 (22.5%) RIS35mg/w, 106/527 (20.1%) Causing discontinuation: ALN70mg/w, 13/515 (2.5%) RIS35mg/w, 16/527, (3.0%)				

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
	ALN70mg/w, 45/515 (8.7%) RIS35mg/w, 41/527 (7.8%) Withdrawals due to AE: ALN70mg/w, 33/515 (6.4%) RIS35mg/w, 33/527 (6.2%)					
Bonnick 2006 ¹⁰⁴ (FACT)	Any AE: ALN70mg/w, 358/411 (87.1%) RIS35mg/w, 358/414 (86.5%) Serious AE: ALN70mg/w, 51/411 (12.4%) RIS35mg/w, 56/414 (13.5%) Withdrawals due to AE: ALN70mg/w, 9/411 (2.2%) RIS35mg/w, 9/414 (2.2%)	Upper GI: ALN70mg/w, 128/411 (24.8%) RIS35mg/w, 122/414 (22.9%)				
Reid 2006 ⁸⁷ (FACTS)	Any AE: ALN70mg/w, 306/468 (65.4%) RIS35mg/w, 314/468 (67.1%) Serious AE: ALN70mg/w, 24/468 (5.1%) RIS35mg/w, 47/468 (10.0%) Withdrawals due to AE: ALN70mg/w, 20/468 (4.3%) RIS35mg/w, 28/468	Any UGI: ALN70mg/w, 95/468 (20.3%) RIS35mg/w, 94/468 (20.1%); Serious UGI: ALN70mg/w, 2/468 (0.4%) RIS35mg/w, 4/468 (0.9%)				

Author details (trial acronym), time point	Any AE, serious AE, withdrawals due to AE, death – n/N (%)	Upper GI AE – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
Reid 2008 ¹⁰⁵ (FACTS) (Extension to Reid 2006 ⁸⁷) Seventy-two of the original 75	(6%) Any AE: ALN70mg/w, 301/403 (74.7 %) RIS35mg/w, 299/395 (75.7%) Serious AE:	Any UGI: ALN70mg/w, 91/403 (22.6%) RIS35mg/w, 73/395 (18.5%) Serious UGI: ALN70mg/w, 3/403 (0.7%) PIS35mg/w, 2/395 (0.5%)				
original 75 international sites Merck & Co., Inc.	Serious AE: ALN70mg/w, 42/403 (10.4%) RIS35mg/w, 44/395 (11.1%) Withdrawals due to AE: ALN70mg/w, 5/403 (1.2%) RIS35mg/w, 5/395 (1.3%)	RIS35mg/w, 2/395 (0.5%) Discontinued because of UGI AE: ALN70mg/w, 1/403 (0.2%) RIS35mg/w, 2/395 (0.5%)				
Hoad-to-hoad - Alex	ndronate vs. Zoledronate					
Hadji 2012 ⁶⁹ (ROSE)	Any AE: ALN70mg/w, 145/194 (74.7%) ZOL5mg/y, 320/408 (78.4%) Serious AE: ALN70mg/w, 21/194 (10.8%) ZOL5mg/y, 43/408 (10.5%) Withdrawals due to AE: ALN70mg/w, 19/194 (9.8%) ZOL5mg/y, 2/408 (0.5%)	Any UGI: ALN70mg/w, 57/194 (29.4%) ZOL5mg/y, 75/408 (18.4%) Upper abdominal pain: ALN70mg/w, 13/194 (6.7%) ZOL5mg/y, 12/408 (2.9%) Dyspepsia: ALN70mg/w, 14/194 (7.2%) ZOL5mg/y, 3/408 (0.7%) Nausea: ALN70mg/w, 11/194 (5.7%) ZOL5mg/y, 23/408 (5.6%)	Flu-like symptoms: ALN70mg/w, 5/194 (32.4%) ZOL5mg/y, 132/408 (32.4%)	Bone pain: ALN70mg/w, 7/408 (3.6%) ZOL5mg/y, 23/194 (5.6%) Osteonecrosis of the jaw: Reports that no cases of osteonecrosis of the jaw were observed		Chills: ALN70mg/w, 3/194 (1.5%) ZOL5mg/y, 13/408 (3.2%) Fatigue: ALN70mg/w, 4/194 (2.1%) ZOL5mg/y, 24/408 (5.9%) Pyrexia: ALN70mg/w, 2/194 (1%) ZOL5mg/y, 21/408 (5.1%) Arthralgia: ALN70mg/w, 2/1408 (10.8%) ZOL5mg/y, 55/194 (13.5%) Musculoskeletal and connective tissue: ALN70mg/w, 64/194

(trial acronym), withd	AE, serious AE, lrawals due to leath – n/N (%)	Flu-like symptoms – n/N (%)	Hypocalcaemia, atypical femoral fracture, bone pain, jaw osteonecrosis, conjunctivitis— n/N (%)	Stroke, atrial fibrillation – n/N (%)	Other- n/N (%)
					ZOL5mg/y, 186/408 (45.6%) Back pain: ALN70mg/w, 20/408 (10.3%) ZOL5mg/y, 53/194 (13.0%) Osteoarthritis: ALN70mg/w, 9/408 (4.6%) ZOL5mg/y, 15/194 (3.7%) Pain in extremity: ALN70mg/w, 5/408

(2.6%)

ZOL5mg/y, 30/194 (7.4%)