



|                  |                      | (maximum dose<br>80 mg)  | (maximum dose<br>80 mg) |
|------------------|----------------------|--|-------------------------|
| Dexamethasone    | 9 months to 17 years | If a corticosteroid, such as dexamethasone, is co-administered, the dose of fosaprepitant may be reduced to one-half the recommended dose on Days 1 through 4. |                         |
| 5-HT3 antagonist | 9 months to 17 years | See selected 5-HT3 antagonist prescribing information for the recommended dosage.  |                         |

\* Dosing in pediatric patients less than 6 is not recommended.  
† For patients 12 years to 17 years unable to swallow oral capsules, aposprafen for oral suspension can be used instead on Days 2 and 4. For patients 12 years or younger or patients weighing at least 40 kg and who are able to swallow oral capsules, aposprafen capsules can be used instead on Days 2 and 4. Aposprafen capsules are not recommended for use on Days 1 and 5.

Additional pediatric use information is approved for Merck Sharp & Dohme LLC's EMEND® (fosaprepitant) injection. However, due to Merck Sharp & Dohme LLC's marketing exclusively rights, this drug product is not labeled with that information.

### 2.3 Preparation of Fosaprepitant for Injection (150 mg)

Table 5 Preparation Instructions for Fosaprepitant for injection (150 mg)

|        |  |
|--------|--|
| Step 1 | Multiply 100 mL 0.9% Sodium Chloride injection, USP (100 mL) by the dose (mg). Ensure that 0.9% Sodium Chloride injection, USP is added to the infusion bag before adding the aposprafen for oral suspension. Avoid shaking and jetting 0.9% Sodium Chloride injection, USP into the infusion bag. |
| Step 2 | Aposprafen prepares an infusion bag (150 mL) with 145 mL of 0.9% Sodium Chloride injection, USP.   |
| Step 3 | Aspirately withdraw the entire volume from the vial and transfer it into the infusion bag containing 145 mL of 0.9% Sodium Chloride injection (100 mL). Add <b>10 mL</b> of 0.9% Sodium Chloride injection, USP to the infusion bag to make a final concentration of 1 mg/mL.                      |
| Step 4 | Gently invert the bag 2 to 3 times.  |
| Step 5 | Determine the volume to be administered from this prepared infusion bag (150 mL) on the recommended dose (see Doseage and Administration 2.2, 2.2.2).  |
|        | The entire volume of the prepared infusion bag (150 mL) should be administered.  |
|        | In patients 12 years and older, the volume to be administered is calculated as follows:  |
|        | • Volume to administer (mL) equals the recommended dose (mg) multiplied by 0.001.  |
|        | • Volume to administer (mL) = Recommended dose (mg) × weight (kg)  |
|        | • Example: $\text{Volume to administer} = \frac{\text{Recommended dose}}{0.001}$ (mg) / weight (kg)  |
|        | In patients under 12 years of age, the volume to be administered is calculated as follows:   |
|        | • Volume to administer (mL) = Recommended dose (mg) × weight (kg) × 0.75   |
|        | In pediatric patients, the entire volume in the infusion bag may not be required.  |
| Step 6 | If necessary, for volumes less than 150 mL, the calculated volume can be adjusted by adding aposprafen 100 mg or aposprafen 100 mg oral suspension by infusion.  |
| Step 7 | Before administration, inspect the bag for particulate matter and/or discoloration. Discard the bag if particulate or discoloration are observed.  |

The recommended dose of fosaprepitant for injection is based on the patient's age and weight. Do not mix or reconstitute fosaprepitant for injection with solutions for which physical and chemical compatibility have not been established. Fosaprepitant for injection is stable for up to 24 hours at ambient room temperature (e.g., 64.4°F–77°F), including in Lactated Ringer's Solution and Hartmann's Solution. Strength: The recommended final drug solution is stable for 24 hours at ambient room temperature (e.g., 64.4°F–77°F) for individual patients.

### 3 DOSAGE FORMS AND STRENGTHS

Fosaprepitant for injection: 150 mg fosaprepitant, white to off-white cake or powder in single-dose glass vial for reconstitution.

### 4 CONTRAINDICATIONS

Fosaprepitant is contraindicated in patients:

- who are hypersensitive to any component of the product. Hypersensitivity reactions, including anaphylaxis, have been reported (see Warnings and Precautions (5.2), Adverse Reactions 2.2).
- use of fosaprepitant with other drugs that are CYP3A4 substrates, may result in increased plasma concentrations of those drugs (see Drug Interactions 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 7.14, 7.15, 7.16, 7.17, 7.18, 7.19, 7.20, 7.21, 7.22, 7.23, 7.24, 7.25, 7.26, 7.27, 7.28, 7.29, 7.30, 7.31, 7.32, 7.33, 7.34, 7.35, 7.36, 7.37, 7.38, 7.39, 7.40, 7.41, 7.42, 7.43, 7.44, 7.45, 7.46, 7.47, 7.48, 7.49, 7.50, 7.51, 7.52, 7.53, 7.54, 7.55, 7.56, 7.57, 7.58, 7.59, 7.60, 7.61, 7.62, 7.63, 7.64, 7.65, 7.66, 7.67, 7.68, 7.69, 7.70, 7.71, 7.72, 7.73, 7.74, 7.75, 7.76, 7.77, 7.78, 7.79, 7.80, 7.81, 7.82, 7.83, 7.84, 7.85, 7.86, 7.87, 7.88, 7.89, 7.90, 7.91, 7.92, 7.93, 7.94, 7.95, 7.96, 7.97, 7.98, 7.99, 7.100, 7.101, 7.102, 7.103, 7.104, 7.105, 7.106, 7.107, 7.108, 7.109, 7.110, 7.111, 7.112, 7.113, 7.114, 7.115, 7.116, 7.117, 7.118, 7.119, 7.120, 7.121, 7.122, 7.123, 7.124, 7.125, 7.126, 7.127, 7.128, 7.129, 7.130, 7.131, 7.132, 7.133, 7.134, 7.135, 7.136, 7.137, 7.138, 7.139, 7.140, 7.141, 7.142, 7.143, 7.144, 7.145, 7.146, 7.147, 7.148, 7.149, 7.150, 7.151, 7.152, 7.153, 7.154, 7.155, 7.156, 7.157, 7.158, 7.159, 7.160, 7.161, 7.162, 7.163, 7.164, 7.165, 7.166, 7.167, 7.168, 7.169, 7.170, 7.171, 7.172, 7.173, 7.174, 7.175, 7.176, 7.177, 7.178, 7.179, 7.180, 7.181, 7.182, 7.183, 7.184, 7.185, 7.186, 7.187, 7.188, 7.189, 7.190, 7.191, 7.192, 7.193, 7.194, 7.195, 7.196, 7.197, 7.198, 7.199, 7.200, 7.201, 7.202, 7.203, 7.204, 7.205, 7.206, 7.207, 7.208, 7.209, 7.210, 7.211, 7.212, 7.213, 7.214, 7.215, 7.216, 7.217, 7.218, 7.219, 7.220, 7.221, 7.222, 7.223, 7.224, 7.225, 7.226, 7.227, 7.228, 7.229, 7.230, 7.231, 7.232, 7.233, 7.234, 7.235, 7.236, 7.237, 7.238, 7.239, 7.240, 7.241, 7.242, 7.243, 7.244, 7.245, 7.246, 7.247, 7.248, 7.249, 7.250, 7.251, 7.252, 7.253, 7.254, 7.255, 7.256, 7.257, 7.258, 7.259, 7.260, 7.261, 7.262, 7.263, 7.264, 7.265, 7.266, 7.267, 7.268, 7.269, 7.270, 7.271, 7.272, 7.273, 7.274, 7.275, 7.276, 7.277, 7.278, 7.279, 7.280, 7.281, 7.282, 7.283, 7.284, 7.285, 7.286, 7.287, 7.288, 7.289, 7.290, 7.291, 7.292, 7.293, 7.294, 7.295, 7.296, 7.297, 7.298, 7.299, 7.300, 7.301, 7.302, 7.303, 7.304, 7.305, 7.306, 7.307, 7.308, 7.309, 7.310, 7.311, 7.312, 7.313, 7.314, 7.315, 7.316, 7.317, 7.318, 7.319, 7.320, 7.321, 7.322, 7.323, 7.324, 7.325, 7.326, 7.327, 7.328, 7.329, 7.330, 7.331, 7.332, 7.333, 7.334, 7.335, 7.336, 7.337, 7.338, 7.339, 7.340, 7.341, 7.342, 7.343, 7.344, 7.345, 7.346, 7.347, 7.348, 7.349, 7.350, 7.351, 7.352, 7.353, 7.354, 7.355, 7.356, 7.357, 7.358, 7.359, 7.360, 7.361, 7.362, 7.363, 7.364, 7.365, 7.366, 7.367, 7.368, 7.369, 7.370, 7.371, 7.372, 7.373, 7.374, 7.375, 7.376, 7.377, 7.378, 7.379, 7.380, 7.381, 7.382, 7.383, 7.384, 7.385, 7.386, 7.387, 7.388, 7.389, 7.390, 7.391, 7.392, 7.393, 7.394, 7.395, 7.396, 7.397, 7.398, 7.399, 7.400, 7.401, 7.402, 7.403, 7.404, 7.405, 7.406, 7.407, 7.408, 7.409, 7.410, 7.411, 7.412, 7.413, 7.414, 7.415, 7.416, 7.417, 7.418, 7.419, 7.420, 7.421, 7.422, 7.423, 7.424, 7.425, 7.426, 7.427, 7.428, 7.429, 7.430, 7.431, 7.432, 7.433, 7.434, 7.435, 7.436, 7.437, 7.438, 7.439, 7.440, 7.441, 7.442, 7.443, 7.444, 7.445, 7.446, 7.447, 7.448, 7.449, 7.450, 7.451, 7.452, 7.453, 7.454, 7.455, 7.456, 7.457, 7.458, 7.459, 7.460, 7.461, 7.462, 7.463, 7.464, 7.465, 7.466, 7.467, 7.468, 7.469, 7.470, 7.471, 7.472, 7.473, 7.474, 7.475, 7.476, 7.477, 7.478, 7.479, 7.480, 7.481, 7.482, 7.483, 7.484, 7.485, 7.486, 7.487, 7.488, 7.489, 7.490, 7.491, 7.492, 7.493, 7.494, 7.495, 7.496, 7.497, 7.498, 7.499, 7.500, 7.501, 7.502, 7.503, 7.504, 7.505, 7.506, 7.507, 7.508, 7.509, 7.510, 7.511, 7.512, 7.513, 7.514, 7.515, 7.516, 7.517, 7.518, 7.519, 7.520, 7.521, 7.522, 7.523, 7.524, 7.525, 7.526, 7.527, 7.528, 7.529, 7.530, 7.531, 7.532, 7.533, 7.534, 7.535, 7.536, 7.537, 7.538, 7.539, 7.540, 7.541, 7.542, 7.543, 7.544, 7.545, 7.546, 7.547, 7.548, 7.549, 7.550, 7.551, 7.552, 7.553, 7.554, 7.555, 7.556, 7.557, 7.558, 7.559, 7.550, 7.551, 7.552, 7.553, 7.554, 7.555, 7.556, 7.557, 7.558, 7.559, 7.560, 7.561, 7.562, 7.563, 7.564, 7.565, 7.566, 7.567, 7.568, 7.569, 7.570, 7.571, 7.572, 7.573, 7.574, 7.575, 7.576, 7.577, 7.578, 7.579, 7.580, 7.581, 7.582, 7.583, 7.584, 7.585, 7.586, 7.587, 7.588, 7.589, 7.590, 7.591, 7.592, 7.593, 7.594, 7.595, 7.596, 7.597, 7.598, 7.599, 7.590, 7.591, 7.592, 7.593, 7.594, 7.595, 7.596, 7.597, 7.598, 7.599, 7.600, 7.601, 7.602, 7.603, 7.604, 7.605, 7.606, 7.607, 7.608, 7.609, 7.610, 7.611, 7.612, 7.613, 7.614, 7.615, 7.616, 7.617, 7.618, 7.619, 7.620, 7.621, 7.622, 7.623, 7.624, 7.625, 7.626, 7.627, 7.628, 7.629, 7.630, 7.631, 7.632, 7.633, 7.634, 7.635, 7.636, 7.637, 7.638, 7.639, 7.630, 7.631, 7.632, 7.633, 7.634, 7.635, 7.636, 7.637, 7.638, 7.639, 7.640, 7.641, 7.642, 7.643, 7.644, 7.645, 7.646, 7.647, 7.648, 7.649, 7.640, 7.641, 7.642, 7.643, 7.644, 7.645, 7.646, 7.647, 7.648, 7.649, 7.650, 7.651, 7.652, 7.653, 7.654, 7.655, 7.656, 7.657, 7.658, 7.659, 7.650, 7.651, 7.652, 7.653, 7.654, 7.655, 7.656, 7.657, 7.658, 7.659, 7.660, 7.661, 7.662, 7.663, 7.664, 7.665, 7.666, 7.667, 7.668, 7.669, 7.660, 7.661, 7.662, 7.663, 7.664, 7.665, 7.666, 7.667, 7.668, 7.669, 7.670, 7.671, 7.672, 7.673, 7.674, 7.675, 7.676, 7.677, 7.678, 7.679, 7.670, 7.671, 7.672, 7.673, 7.674, 7.675, 7.676, 7.677, 7.678, 7.679, 7.680, 7.681, 7.682, 7.683, 7.684, 7.685, 7.686, 7.687, 7.688, 7.689, 7.680, 7.681, 7.682, 7.683, 7.684, 7.685, 7.686, 7.687, 7.688, 7.689, 7.690, 7.691, 7.692, 7.693, 7.694, 7.695, 7.696, 7.697, 7.698, 7.699, 7.690, 7.691, 7.692, 7.693, 7.694, 7.695, 7.696, 7.697, 7.698, 7.699, 7.700, 7.701, 7.702, 7.703, 7.704, 7.705, 7.706, 7.707, 7.708, 7.709, 7.700, 7.701, 7.702, 7.703, 7.704, 7.705, 7.706, 7.707, 7.708, 7.709, 7.710, 7.711, 7.712, 7.713, 7.714, 7.715, 7.716, 7.717, 7.718, 7.719, 7.720, 7.721, 7.722, 7.723, 7.724, 7.725, 7.726, 7.727, 7.728, 7.729, 7.720, 7.721, 7.722, 7.723, 7.724, 7.725, 7.726, 7.727, 7.728, 7.729, 7.730, 7.731, 7.732, 7.733, 7.734, 7.735, 7.736, 7.737, 7.738, 7.739, 7.730, 7.731, 7.732, 7.733, 7.734, 7.735, 7.736, 7.737, 7.738, 7.739, 7.740, 7.741, 7.742, 7.743, 7.744, 7.745, 7.746, 7.747, 7.748, 7.749, 7.740, 7.741, 7.742, 7.743, 7.744, 7.745, 7.746, 7.747, 7.748, 7.749, 7.750, 7.751, 7.752, 7.753, 7.754, 7.755, 7.756, 7.757, 7.758, 7.759, 7.750, 7.751, 7.752, 7.753, 7.754, 7.755, 7.756, 7.757, 7.758, 7.759, 7.760, 7.761, 7.762, 7.763, 7.764, 7.765, 7.766, 7.767, 7.768, 7.769, 7.760, 7.761, 7.762, 7.763, 7.764, 7.765, 7.766, 7.767, 7.768, 7.769, 7.770, 7.771, 7.772, 7.773, 7.774, 7.775, 7.776, 7.777, 7.778, 7.779, 7.770, 7.771, 7.772, 7.773, 7.774, 7.775, 7.776, 7.777, 7.778, 7.779, 7.780, 7.781, 7.782, 7.783, 7.784, 7.785, 7.786, 7.787, 7.788, 7.789, 7.780, 7.781, 7.782, 7.783, 7.784, 7.785, 7.786, 7.787, 7.788, 7.789, 7.790, 7.791, 7.792, 7.793, 7.794, 7.795, 7.796, 7.797, 7.798, 7.799, 7.790, 7.791, 7.792, 7.793, 7.794, 7.795, 7.796, 7.797, 7.798, 7.799, 7.800, 7.801, 7.802, 7.803, 7.804, 7.805, 7.806, 7.807, 7.808, 7.809, 7.800, 7.801, 7.802, 7.803, 7.804, 7.805, 7.806, 7.807, 7.808, 7.809, 7.810, 7.811, 7.812, 7.813, 7.814, 7.815, 7.816, 7.817, 7.818, 7.819, 7.810, 7.811, 7.812, 7.813, 7.814, 7.815, 7.816, 7.817, 7.818, 7.819, 7.820, 7.821, 7.822, 7.823, 7.824, 7.825, 7.826, 7.827, 7.828, 7.829, 7.820, 7.821, 7.822, 7.823, 7.824, 7.825, 7.826, 7.827, 7.828, 7.829, 7.830, 7.831, 7.832, 7.833, 7.834, 7.835, 7.836, 7.837, 7.838, 7.839, 7.830, 7.831, 7.832, 7.833, 7.834, 7.835, 7.836, 7.837, 7.838, 7.839, 7.840, 7.841, 7.842, 7.843, 7.844, 7.845, 7.846, 7.847, 7.848, 7.849, 7.840, 7.841, 7.842, 7.843, 7.844, 7.845, 7.846, 7.847, 7.848, 7.849, 7.850, 7.851, 7.852, 7.853, 7.854, 7.855, 7.856, 7.857, 7.858, 7.859, 7.850, 7.851, 7.852, 7.853, 7.854, 7.855, 7.856, 7.857, 7.858, 7.859, 7.860, 7.861, 7.862, 7.863, 7.864, 7.865, 7.866, 7.867, 7.868, 7.869, 7.860, 7.861, 7.862, 7.863, 7.864, 7.865, 7.866, 7.867, 7.868, 7.869, 7.870, 7.871, 7.872, 7.873, 7.874, 7.875, 7.876, 7.877, 7.878, 7.879, 7.870, 7.871, 7.872, 7.873, 7.874, 7.875, 7.876, 7.877, 7.878, 7.879, 7.880, 7.881, 7.882, 7.883, 7.884, 7.885, 7.886, 7.887, 7.888, 7.889, 7.880, 7.881, 7.882, 7.883, 7.884, 7.885, 7.886, 7.887, 7.888, 7.889, 7.890, 7.891, 7.892, 7.893, 7.894, 7.895, 7.896, 7.897, 7.898, 7.899, 7.890, 7.891, 7.892, 7.893, 7.894, 7.895, 7.896, 7.897, 7.898, 7.899, 7.900, 7.901, 7.902, 7.903, 7.904, 7.905, 7.906, 7.907, 7.908, 7.909, 7.900, 7.901, 7.902, 7.903, 7.904, 7.905, 7.906, 7.907, 7.908, 7.909, 7.910, 7.911, 7.912, 7.913, 7.914, 7.915, 7.916, 7.917, 7.918, 7.919, 7.910, 7.911, 7.912, 7.913, 7.914, 7.915, 7.916, 7.917, 7.918, 7.919, 7.920, 7.921, 7.922, 7.923, 7.924, 7.925, 7.926, 7.927, 7.928, 7.929, 7.920, 7.921, 7.922, 7.923, 7.924, 7.925, 7.926, 7.927, 7.928, 7.929, 7.930, 7.931, 7.932, 7.933, 7.934, 7.935, 7.936, 7.937, 7.938, 7.939, 7.930, 7.931, 7.932, 7.933, 7.934, 7.935, 7.936, 7.937, 7.938, 7.939, 7.940, 7.941, 7.942, 7.943, 7.944, 7.945, 7.946, 7.947, 7.948, 7.949, 7.940, 7.941, 7.942, 7.943, 7.944, 7.945, 7.946, 7.947, 7.948, 7.949, 7.950, 7.951, 7.952, 7.953, 7.954, 7.955, 7.956, 7.957, 7.958, 7.959, 7.950, 7.951, 7.952, 7.953, 7.954, 7.955, 7.956, 7.957, 7.958, 7.959, 7.960, 7.961, 7.962, 7.963, 7.964, 7.965, 7.966, 7.967, 7.968, 7.969, 7.960, 7.961, 7.962, 7.963, 7.964, 7.965, 7.966, 7.967, 7.968, 7.969, 7.970, 7.971, 7.972, 7.973, 7.974, 7.975, 7.976, 7.977, 7.978, 7.979, 7.970, 7.971, 7.972, 7.973,

### 3 DRUG INTERACTION

#### **7 DRUG INTERACTIONS**

##### **7.1 Effect of Fosaprepitant/Aprepitant on the Pharmacokinetics of Other Drugs**

When administered intravenously, fosaprepitant, a prodrug of aprepitant, is converted to aprepitant within 30 minutes. Therefore, drug interactions following administration of fosaprepitant for injection are likely to occur through its conversion to aprepitant. Fosaprepitant has a plasma t<sub>1/2</sub> of approximately 150 hours, making it a long-acting inhibitor. It inhibits CYP3A4 and CYP2D6, and it inhibits CYP2C9. Aprepitant is a substrate, an inhibitor, and an inducer of CYP3A4. Aprepitant is also an inducer of CYP2C9 [see Clinical Pharmacology (12.3)]. Some substrates of CYP3A4 are contraindicated with fosaprepitant [see Contraindications (4)]. The metabolism of some CYP3A4 and CYP2C9 substrates may be warranted, as shown in Table 7.

**Table 7** Comparison of the measured and calculated values of the parameters of the model.

| Effects of Fosapamulin/Apregant on the Pharmacokinetics of Other Drugs |  |
|--|--|
| CPA55 Substrates   |  |
| <b>Soral Impact</b>  | Increased plasma exposure  |
| <b>Interactions</b>  | • No drug interactions reported.   |
| <b>Monitoring</b>  | Monitor for hypotension or other adverse reactions.  |
| <b>Soral Impact</b>  | Decreased plasma exposure (see <i>Caveat: Foscarnet</i> )  |
| <b>Interactions</b>  | • Reduce the dose of carbamazepine by approximately 50%.   |
| <b>Monitoring</b>  | Monitor for seizures.  |
| <b>Soral Impact</b>  | Decreased plasma exposure (see <i>Caveat: Foscarnet</i> )  |
| <b>Interactions</b>  | • Reduce the dose of oral methyldibenzodiazepines by approximately 50%.  |
| <b>Monitoring</b>  | • Days 1 and 2: patients receiving HEC and on Day 1 for patients receiving CPA55.  |
| <b>Soral Impact</b>  | Decreased plasma exposure (see <i>Caveat: Foscarnet</i> )  |
| <b>Interactions</b>  | • Reduce the dose of intravenous methyldibenzodiazepines by 25%.   |
| <b>Monitoring</b>  | • Days 1 and 2: patients receiving HEC and on Day 1 for patients receiving CPA55.  |
| <b>Soral Impact</b>  | No change in the exposure of the chlorophenothiazepine agent may increase by approximately 20%.  |
| <b>Interactions</b>  | • Monitor for chlorophenothiazepate-related adverse reactions.   |
| <b>Monitoring</b>  | • Monitor for hypotension, tachycardia, and decreased blood pressure.  |
| <b>Soral Impact</b>  | Decreased pharmacokinetic exposure (time administration of 10 mg/kg and 20 mg/kg) and increased plasma concentrations (time 0 and 28 days) of warfarin and its active metabolite (S-warfarin).             |
| <b>Interactions</b>  | • Monitor for bleeding.  |
| <b>Monitoring</b>  | • Effective alternative or back-up method of contraception (such as oral contraceptives, condoms, or diaphragm) should be used with fosapamulin and for 3 months following discontinuation of fosapamulin. |
| <b>Examples</b>  | Warfarin, oral contraceptives, condoms, diaphragm.   |
| CPA55 Substrates   |  |
| <b>Soral Impact</b>  | Decreased plasma exposure and decreased protein binding time (see <i>Drug Interactions</i> and <i>Contraindications</i> ).   |
| <b>Interactions</b>  | • No change in the exposure of the 5-HT <sub>1</sub> antagonist (see <i>Caveat: Apregant</i> ).  |
| <b>Monitoring</b>  | No dosage adjustment is needed.  |
| <b>Soral Impact</b>  | No change in the exposure of the 5-HT <sub>1</sub> antagonist (see <i>Caveat: Apregant</i> ).  |
| <b>Interactions</b>  | • No drug interactions reported.   |
| <b>Monitoring</b>  | No dosage adjustment is needed.  |

#### **7.2 Effect of Other Drugs on the Pharmacokinetics of Fosaprepitant/Aprepitant**

Aprepitant is a CYP3A4 substrate [see Clinical Pharmacology (12.3)]. Co-administration of fosaprepitant with drugs that are inhibitors or inducers of CYP3A4 may result in increased or decreased plasma concentrations of aprepitant, respectively, as shown in Table 8.

**Table 8 Effects of Other Drugs on Pharmacokinetics of Fosaprepitant/Aprepitant**

| Moderators to Strong CY3A4 Inhibitors |  |
|---------------------------------------|--|
| Clinical Impact:                      | Significantly increased exposure of arisatapent may increase risk of adverse events (e.g., hypotension, bradycardia, [see Adverse Reactions (2.1), and Clinical Pharmacology (12.3)].)   |
| Intervention:                         | Avoid concurrent use of fosamprenavir.   |
| Example:                              | <i>Brisket® tablet</i><br><i>Darzalex® tablet</i><br><i>Dexa® tablet</i><br><i>Epanutin® tablet</i> , <i>Fluconazole</i> , <i>lafenadolone</i> , <i>trokemomycin</i> , <i>tarceytmab</i> , <i>triamterene</i> , <i>metformin</i> |
| Strong CY3A4 Inducers                 |  |
| Clinical Impact:                      | Substantially decreased exposure of arisatapent in patients taking strong CYP3A4 inducers may result in loss of efficacy of arisatapent (see Clinical Pharmacology (12.3)).  |
| Intervention:                         | Avoid concurrent use of fosamprenavir.   |
| Example:                              | <i>Carbamazepine</i> , <i>Phenobarbital</i> , <i>phenytoin</i>   |

#### **S USE IN SPECIFIC POPULATION**

### **3.1 Pregnancy**

**Bak Summary**  
There are insufficient data on use of foscarnet during pregnancy to determine its effects on a pregnant woman or her fetus. In animal reproduction studies, no adverse effects were observed in rats or rabbits exposed during the period of organogenesis at systemic drug levels (AUC) approximately equivalent to the exposure at the recommended human dose (RHD) of 250 mg (see Data). The estimated background risk of major birth defects and miscarriage for the

indicated pop.

In embryofetal development studies in rats and rabbits, aprepitant was administered during the period of organogenesis at oral doses up to 1000 mg/kg twice daily (rats) and up to the dose of 25 mg/kg/day (rabbits). No embryofetal toxicity or malformations were observed at any dose level in either species. The exposures (AUC) in pregnant rats at 1000 mg/kg and non-pregnant rabbits at 25 mg/kg/day were approximately equivalent to the exposure at

Pregnant rats  
the RHD of 15

**8.2 Lactation**  
**Bair Summary:**  
Lactation studies have not been conducted to assess the presence of aperientant in human milk, the effects on the breastfed infant, or the effects on milk production. Aprepitant and health benefits of breastfeeding should be considered along with the mother's clinical need for fosaprepitant and any potential adverse effects on the breastfed infant from fosaprepitant or from the underlying maternal condition.

**8.3 Females and Males of Reproductive Potential**

### Contraception

Upon administration of fosfesepatol, the efficacy of hormonal contraceptives may be reduced. Advise female patients of the potential using hormonal contraceptives to use an effective alternative or back-up non-hormonal contraceptive (such as condoms and spermicides) during treatment with fosfesepatol and for 1 month following the last dose [see Drug Interactions (7.1), Clinical Pharmacology (12.3)].

The safety and ef-  
been established

and delayed nausea and vomiting associated with initial and repeat courses of HEC and MEC.

Use of fosaprepitant in this age group is supported by evidence from adequate and well-controlled studies of fosaprepitant for injection in adults, with additional safety, efficacy and pharmacokinetic data in pediatric patients 6 months to 17 years. Efficacy and safety were also supported by data from an adequate and well-controlled study of a 3-day oral aprepitant regimen in children 2 to 17 years of age with cancer who received chemotherapy. Information for aprepitant capsules for complete clinical information regarding studies involving oral aprepitant. Adverse reactions were similar to those reported in adult patients [see Dosage and Administration (2.2), Adverse Reactions (6.3), Clinical Pharmacology (5.2), and Nonclinical Toxicology (13)].

The safety and effectiveness of fosaprepitant dimebonate for the prevention of nausea and vomiting associated with HEC or MEC have not been established in patients less than 6 months of age.

than 6 months of  
**Expendable Animal To**

In young rats treated with folic acid, changes in neurobehavioral tests were observed without an effect on growth. No effects on neurobehavioral, sensorimotor function, or learning and memory were observed in rats.

In young rats, in juvenile development, a 10 mg/kg/day dose of folic acid (equivalent to a human to 12 days postmenstrual equivalent to 2 to 3 years old human), decreased testicular weight and Leydig cell size were seen in the male at 6 mg/kg/day and increased serum levels, weight/growth of the uterus and oviduct, and increased uterine weight in the female at 12 mg/kg/day. These studies were also conducted in young rats to evaluate the effects of age-related growth and on neurobehavioral development. Rats were treated at oral doses up to the maximum feasible dose of 1000 mg/kg/day (prior to providing evidence of toxicity) for 10 days (equivalent to a human to 12 years postmenstrual). The age range for the study was 12 days postmenstrual to 12 years postmenstrual.

Postnatal Day 58  
the onset of sexu-

There were no effects on matter fertility, embryo-fetal survival, or histopathology of the reproductive organs. There were no effects in neurobehavioral tests of sensory function, learning, memory, and memory retention.

**Additional Marc Sharg & Dohme LLC information is available for Merck Sharp & Dohme LLC's EMEND® (fosaprepitant) for pregnancy. However, due to Merck Sharp & Dohme LLC's marketing exclusivity rights, this drug product is not labeled with that information.**

elderly patients at  
function and con-  
(14.9–20.1).

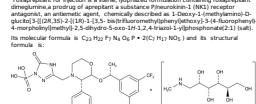
**8.5 Patients with Hepatic Impairment**  
The pharmacokinetics of aperient in patients with mild and moderate hepatic impairment were similar to those of healthy subjects with normal hepatic function. No dosage adjustment (Pugh score 5-9) is necessary. There are no clinical or pharmacokinetic data in patients with severe Pugh scores greater than 9. Therefore, additional monitoring for adverse reactions in these patients may be warranted when aperient is administered [see *Clinical Pharmacology (12.3)*].

There is no specific  
anticoagulant.

In the event of overdose, fosaprepitant should be discontinued and general supportive treatment and monitoring should be provided. Because of the antemetic activity of fosaprepitant, drug-induced emesis may not be effective in cases of fosaprepitant overdose. Fosaprepitant is not removed by hemodialysis.

**11 DESCRIPTION**

Fosaprepitant for injection is a sterile, lyophilized formulation containing fosaprepitant.



Fosaprepitant dimeglumine is a white to off-white powder with a molecular weight of 1004.83. It is freely soluble in water, soluble in N,N-Dimethylformamide and insoluble in ethanol.

Each vial of fosaprepitant for injection for administration as an intravenous infusion contains 245.3 mg of fosaprepitant dimeglumine equivalent to 50 mg of fosaprepitant free acid and the following inactive ingredients: edetate

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## 12 CLINICAL PHARMACOLOGY

**12.1 Mechanism of Action**

Aprepitant is a selective high-affinity antagonist of human substance P/neurokinin 1(NK<sub>1</sub>) receptors. Aprepitant has little or no affinity for serotonin (5-HT<sub>2</sub>), dopamine, and corticosteroid



mutagenicity test, the rat hepatocyte DNA strand break test, the Chinese hamster ovary (CHO) chromosome aberration test and the mouse micronucleus test. Impairment of Fertility: Fosaprepitant, when administered intravenously, is rapidly converted to aprepitant. In fertility studies conducted with fosaprepitant and aprepitant, the highest systemic exposures to aprepitant were obtained with the oral aprepitant regimen (100 mg) compared to the 100 mg or 200 mg oral or parenteral regimens. No effect on fertility was observed at the maximum feasible dose of 200 mg/day. The maximum feasible dose of fosaprepitant was 100 mg/day. The exposure at the recommended adult dose of 100 mg/day is approximately equivalent to the exposure in female rats approximately equivalent to adult human exposure.

#### 14 CLINICAL STUDIES

##### 14.1 Prevention of Nausea and Vomiting Associated with MEC in Adults

In a randomized, parallel, double-blind, active comparator-controlled study, fosaprepitant injection 150 mg as a single intravenous infusion (N=1147) was compared to a 3-day oral-aprepitant regimen (N=1171) in patients receiving a MEC regimen that included carboplatin and cisplatin. Both groups received dexamethasone pre-chemotherapy and ondansetron and ondansetron plus dexamethasone post-chemotherapy. See Table 13.

Table 13 Treatment Regimens in Adult MEC Trial\*

|                             | Day 1  | Day 2 | Day 3               | Day 4               |
|-----------------------------|--|-------|---------------------|---------------------|
| Fosaprepitant Regimen       |  |       |                     |                     |
| Fosaprepitant for injection | 150 mg<br>intravenously<br>over 20 to 30 minutes<br>approximately<br>30 minutes prior<br>to chemotherapy | none  | none                | none                |
| Dose Dexamethasone†         | 12 mg  | 8 mg  | 8 mg twice<br>daily | 8 mg twice<br>daily |
| Ondansetron                 | Ondansetron‡   | none  | none                | none                |
| Oral Aprepitant Regimen     |  |       |                     |                     |
| Aprepitant capsules         | 125 mg   | 80 mg | 80 mg               | none                |
| Dose Dexamethasone          | 12 mg  | 8 mg  | 8 mg                | 8 mg                |
| Ondansetron                 | Ondansetron‡   | none  | none                | none                |

\* Fosaprepitant for injection placebo, dexamethasone placebo, placebo and dexamethasone placebo in the evenings on Days 3 and 4 were used to maintain baseline.

† Dexamethasone was administered 30 minutes prior to chemotherapy treatment on Day 1 and the morning of Days 2 through 4. The 12 mg dose of dexamethasone on Day 1 and the 8 mg doses on Days 2 through 4 were administered approximately 30 minutes prior to chemotherapy treatment on Days 1 through 4, respectively, and approximately 30 minutes prior to the second dose of fosaprepitant for injection regimen (see Clinical Pharmacology (12.3)).

‡ Ondansetron was administered 30 minutes prior to chemotherapy treatment on Day 1 and the morning of Days 2 through 4. The 12 mg dose of ondansetron on Day 1 and the second dose on Days 2 through 4 were administered approximately 30 minutes prior to the second dose of fosaprepitant for injection regimen (see Clinical Pharmacology (12.3)).

The efficacy of fosaprepitant for injection was evaluated based on the primary endpoint of no vomiting during the delayed phase (from 12 hours post-initiation of fosaprepitant for injection until 24 hours post-initiation of rescue therapy). The overall phase was 7%, the pre-specified non-inferiority margin for complete response, and the pre-specified non-inferiority margin for no vomiting in the overall phase was 6.2%.

Table 13 Percent of Adult Patients Receiving MEC Responding by Treatment Group and Phase – Cycle 1

| ENDPOINTS           | Fosaprepitant for injection<br>(N = 1106)* | Oral Aprepitant<br>Regimen<br>(N = 1134)* | Difference<br>(95% CI)<br>% |
|---------------------|--|---|-----------------------------|
| PRIMARY ENDPOINT    |  |   |                             |
| Complete Response†  | 71.9                                       | 72.3                                      | -0.4 (-4.1,-<br>4.9)        |
| SECONDARY ENDPOINTS |  |   |                             |
| Complete Response‡  |  |   |                             |
| Delayed phase§      | 74.3                                       | 74.2                                      | 0.1 (-5.7,-<br>5.7)         |
| No Vomiting         |  |   |                             |
| Overall¶            | 72.9                                       | 74.6                                      | -3.7 (-<br>5.3,-2.0)        |

\* N: Number of patients included in the primary analysis of complete response.

† Difference and Confidence Interval (CI) were calculated using the method proposed by Miettinen and Nurminen and adjusted for Gender.

‡ Complete Response = no vomiting and no use of rescue therapy.

§ Overall = 12 to 120 hours post-initiation of fosaprepitant for injection.

¶ Delayed phase = 12 to 24 hours post-initiation of rescue therapy.

\*Number of patients included in the primary analysis of complete response.

†Complete Response = no vomiting and no use of rescue therapy.

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\*\*Number of patients included in the intention-to-treat population.

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