To estimate the **Potential Peak Sales** for durvalumab (Imfinzi) in the specified indication (resectable NSCLC with tumors ≥ 4 cm and/or node positive, without EGFR mutations or ALK rearrangements) in the US, EU5 (France, Germany, Italy, Spain, UK), China, and Japan, as well as the **\$ value of a 1% share of treated patients** in these geographies, we need to follow a structured approach. Since specific data on patient numbers, pricing, and market penetration might not be fully available, I will outline the methodology and use reasonable assumptions based on publicly available information and industry standards.

Step 1: Define the Target Patient Population

- **Indication**: Resectable NSCLC (Stage II-IIIA, tumors ≥ 4 cm and/or node positive, without EGFR mutations or ALK rearrangements).
- Geographies: US, EU5, China, Japan.
- Epidemiology:
- NSCLC accounts for ~85% of all lung cancer cases.
- Resectable NSCLC (Stage II-IIIA) represents approximately 20-30% of NSCLC cases.
- Of these, tumors ≥ 4 cm and/or node-positive cases are a subset, estimated at ~60-70% of resectable cases.
- EGFR mutations (~15-20% in Western populations, ~40-50% in Asian populations) and ALK rearrangements (~5%) will be excluded.

Using approximate NSCLC incidence data (2023 estimates from sources like GLOBOCAN, American Cancer Society, and industry reports):

- **US**: ~200,000 new NSCLC cases/year; ~25% resectable (~50,000); ~65% of these meet criteria (~32,500); exclude ~20% with EGFR/ALK (~26,000 eligible patients).
- **EU5**: ~250,000 new NSCLC cases/year; ~25% resectable (~62,500); ~65% meet criteria (~40,625); exclude ~20% with EGFR/ALK (~32,500 eligible patients).
- **China**: ~800,000 new NSCLC cases/year; ~25% resectable (~200,000); ~65% meet criteria (~130,000); exclude ~45% with EGFR/ALK (~71,500 eligible patients).
- **Japan**: ~100,000 new NSCLC cases/year; ~25% resectable (~25,000); ~65% meet criteria (~16,250); exclude ~40% with EGFR/ALK (~9,750 eligible patients).

Total Eligible Patients (approx.):

- US: 26,000

- EU5: 32,500

- China: 71,500

- Japan: 9,750

- Total across geographies: ~139,750 patients/year.

Step 2: Market Share Assumption

- The problem states a **20% to 30% share of treated patients**. This assumes durvalumab captures this percentage of the eligible patient population in this indication.
- For calculation, we'll use the midpoint of 25% market share as a base case for peak sales estimation.

Treated Patients with Durvalumab (at 25% share):

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- US: 26,000 * 25% = 6,500
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- EU5: 32,500 * 25% = 8,125

- China: 71,500 * 25% = 17,875

- Japan: 9,750 * 25% = 2,438

- Total: ~34,938 patients/year.

Step 3: Pricing Assumptions

Durvalumab pricing varies by region due to differences in healthcare systems, reimbursement, and purchasing power. Based on industry reports and public data:

- US: ~\$180,000 per patient/year (based on typical immunotherapy pricing for NSCLC).
- EU5: ~\$100,000 per patient/year (discounted due to price negotiations and public health systems).
- **China**: ~\$50,000 per patient/year (lower pricing due to market access programs and generics competition).
- **Japan**: ~\$120,000 per patient/year (slightly lower than the US, aligned with developed market pricing).

Note: These are rough estimates for a full treatment course (neoadjuvant + adjuvant durvalumab). Actual costs may vary based on treatment duration (e.g., 1 year or more) and specific pricing agreements.

Step 4: Calculate Potential Peak Sales

Peak sales are calculated as: Number of treated patients * Annual cost per patient.

- **US**: 6,500 patients * \$180,000 = **\$1,170 million** (~\$1.17 billion)
- **EU5**: 8,125 patients * \$100,000 = **\$812.5 million** (~\$0.81 billion)
- **China**: 17,875 patients * \$50,000 = **\$893.75 million** (~\$0.89 billion)
- **Japan**: 2,438 patients * \$120,000 = **\$292.56 million** (~\$0.29 billion)

- Total Peak Sales (at 25% share): \$3,168.81 million (~\$3.17 billion)

Range for 20% to 30% Share:

- At 20% share: ~\$2.54 billion
- At 30% share: ~\$3.80 billion

Thus, **Potential Peak Sales** for durvalumab in this indication across the specified geographies is approximately **\$2.5** to **\$3.8** billion, with a midpoint of ~\$3.17 billion at 25% market share.

Step 5: Calculate \$ Value of 1% Share of Treated Patients

A 1% share of treated patients means 1% of the eligible patient population in each geography.

Eligible Patients per 1% Share:

- US: 26,000 * 1% = 260 patients
- EU5: 32,500 * 1% = 325 patients
- China: 71,500 * 1% = 715 patients
- Japan: 9,750 * 1% = 98 patients
- Total: 1,398 patients

Revenue per 1% Share (using the same pricing assumptions):

- US: 260 * \$180,000 = **\$46.8 million**
- EU5: 325 * \$100,000 = **\$32.5 million**
- China: 715 * \$50,000 = **\$35.75 million**
- Japan: 98 * \$120,000 = **\$11.76 million**
- Total Value of 1% Share: \$126.81 million

Thus, the **\$ value of a 1% share of treated patients** across these geographies is approximately **\$127 million**.

Final Answer

- 1. **Potential Peak Sales for Durvalumab** in this indication (resectable NSCLC) across the US, EU5, China, and Japan, assuming a 20% to 30% share of treated patients:
- Range: \$2.5 billion to \$3.8 billion
- Midpoint (at 25% share): \$3.17 billion

- 2. \$ Value of 1% Share of Treated Patients across these geographies:
- \$127 million

Caveats: These estimates are based on assumptions about patient populations, market share, and pricing. Real-world figures may differ due to competition (e.g., other immunotherapies like pembrolizumab), reimbursement policies, treatment duration, and market access challenges. For precise figures, primary market research or company-specific data would be required.