Hematology/Oncology

• Rapidly develop and implement local and global strategies for your hematology/oncology program with our feasibility and global drug development teams supported and led by board-certified oncologists
• Obtain quality data to enable successful submissions from a contract research organization with a proven record of project and program success
• Gain immediate access to a deep bench of experienced hematology/oncology resources across the globe

Global Expertise in Managing Complex Hematology/Oncology Research
PPD holds a preeminent position as a leader in hematology/oncology research. Our global experience in the past five years includes more than 300 hematology and oncology studies involving more than 75,000 patients, including pediatric populations.

PPD’s cross-functional hematology/oncology team, led by senior scientists and clinicians with extensive drug development experience, includes dedicated therapeutic trial management, medical, pharmacovigilance, regulatory, medical writing, biostatistics and data management professionals. From feasibility studies to protocol design to simultaneous multinational submissions, PPD has the global infrastructure, resources, integrated technologies and commitment to quality to support your needs.

• Early stage development studies, including translational medicine, Phase 0, first in human trials in both healthy volunteers and patients, dose escalation and global cohort management adaptive design studies
• PPD® Consulting to custom design and implement an integrated development plan to aid clients in tracking and reaching key development milestones, while proactively managing risks

• Global project management organization
• Global regulatory support services
• Late-stage research services, including Phase IIIb/IV studies, pharmacoepidemiology, risk management, observational studies and registries
• Integrated medical imaging solutions through our strategic partnership with VirtualScopics

Hematology/Oncology Study Experience
(Past Five Years)

Indication Experience*

<table>
<thead>
<tr>
<th>Indication</th>
<th>Study Phase</th>
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<tbody>
<tr>
<td>Lung</td>
<td>30</td>
</tr>
<tr>
<td>Solid Tumors</td>
<td>25</td>
</tr>
<tr>
<td>Prostate</td>
<td>20</td>
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<tr>
<td>Hematology</td>
<td>20</td>
</tr>
<tr>
<td>Breast</td>
<td>15</td>
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<tr>
<td>Leukemia</td>
<td>15</td>
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<tr>
<td>Skin</td>
<td>10</td>
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<tr>
<td>Ovary/Uterus</td>
<td>10</td>
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<tr>
<td>Lymphoma</td>
<td>10</td>
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<tr>
<td>Brain</td>
<td>10</td>
</tr>
<tr>
<td>Head and Neck</td>
<td>5</td>
</tr>
<tr>
<td>Multiple Myeloma</td>
<td>5</td>
</tr>
<tr>
<td>Colorectal</td>
<td>5</td>
</tr>
</tbody>
</table>

* Indications for which PPD has conducted 10 or more trials

Study Phase

- Phase I: 76
- Phase II: 98
- Phase III: 117
- Phase IIIb/IV: 29
PPD Comprehensive Medical and Scientific Resources

• PPD® Consulting offers clients a professional team of product development experts with extensive experience from pre-clinical to post-approval planning
• More than 3,000 professionals worldwide with experience in oncology, including more than 100 project managers, and 9 oncologists
• A global network of nearly 10,000 investigators with experience in hematology/oncology clinical research, including many of the major cancer institutions around the globe
• Member of the CEO Roundtable on Cancer, collaborating with industry partners and the National Cancer Institute to accelerate the discovery and development of novel and more effective diagnostic tools and anti-cancer therapies
• Ranked number one among CROs in the 2011 CenterWatch global site survey, in which 84.3% of participants ranked PPD’s overall relationship quality as “excellent” or “good”

Medical Imaging Services

PPD’s strategic alliance with VirtualScopics expedites clients’ oncology clinical trials with best-in-class, comprehensive clinical development and medical imaging services. This unique offering provides:

• A strategically integrated approach that allows clients to benefit from efficiencies and make fast, confident decisions
• Tailored solutions designed to meet the unique needs of each client’s oncology development program and quickly progress their therapies from early phase to regulatory approval
• Seamless integration of technologies and processes, giving biopharmaceutical companies near real-time, consistent and reliable medical imaging information to expedite their drug development programs

Process and Technology Driven Quality

PPD has integrated training tools, quality control processes and best practices through the full operational lifecycle of a project to address common challenges in oncology studies and to ensure the quality of the data our partners use to make critical development decisions.

• Adaptive protocol designs
• Early data review and in-stream cleaning
• Radiological endpoints and tumor assessments
• Real time access to patient data listings and
• Independent review of endpoints derived datasets using PPD® Patient Profiles
• Survival follow-up and patient retention
• Non-linear event predictions
• Patient-recorded outcomes
• Event tracking and adjudication
• Patient eligibility safeguards
• Data Safety Monitoring Board
• Local laboratory data integration and central laboratory services
• Biosimilars Product Development practice area