**HHC - Concern of Clinically Relevant Unpredicted Effects of Medication (PK/PD)**

**PPBE20 FY18Q2 Baseline**

<table>
<thead>
<tr>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
<th>FY23</th>
<th>FY24</th>
<th>FY25</th>
<th>FY26</th>
<th>FY27</th>
<th>FY28</th>
<th>FY29</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mars Fly-by</td>
<td>Gateway Lifecycle Milestones</td>
<td>DST Planning Milestones (PPBE19)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Concern of Effects of Medication (PK/PD)**

- **Spaceflight Pharmacokinetics**
  - **Pharm03**: We do not know the extent to which spaceflight alters pharmacokinetics.
  - **Pharm04**: We do not know the extent to which spaceflight alters pharmacodynamics.
  - **Antimicrobial**
    - **Pharm05**: We do not know the extent to which current antimicrobial therapies are effective against microbes that have been altered by spaceflight.

---

**Status Date:** 5/8/2018