

## Lab Processing Guide for Baseline Mr. OS Blood Collection

We have created this guide as lab reference material. It is only a supplement to the operations manual chapter. The operations manual chapter has more information. This guide acts as a quick reference.

General rules for processing:

We are expecting that the staff will collect all of the necessary tubes for each participant. However, different situations will occur and we have described every possible scenario that could happen with the two draws from the baseline Mr. OS specimen collection protocol.

Draw tube #1 (from 1 <sup>st</sup> draw) Draw tube #2 (from 1 <sup>st</sup> draw) Draw tube #3 (from 1 <sup>st</sup> draw) Draw tube #4 (from 1 <sup>st</sup> draw) Draw tube #5 (from 1 <sup>st</sup> draw) Draw tube #6 (from 2 <sup>nd</sup> draw)	This is the recommended blood collection protocol. All deviations from this protocol are described on the following pages.
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Priorities shift depending on the collection results.

If you have tubes from the two blood draws, the priorities are:

- Serum for sex steroid measurements (Draw tube 3 (cryovials 01-05) Draw tube 6 (cryovials 6-10)\*)
- Blood blotter
- Whole blood aliquots (cryovials 11-12)
- Serum Vitamin D analysis cryovials with aluminum foil (cryovials 13-14)
- Archived serum (cryovials 15-26)

If you have tubes from only one draw, the priorities are:

- Serum Vitamin D analysis cryovials with aluminum foil (cryovials 13-14)
- Serum for sex steroid measurements (Draw tube 3: cryovials 01-05)\*
- Blood blotter
- Whole blood aliquots (cryovials 11-12)
- Archived serum (cryovials 15-26)

\*Please note that even though we have called for five 1mL aliquots of serum from each draw tubes# 3 and #6, we don't expect every participant to reach this full amount. We realize that there will be a large percentage of participants who will not fill all the cryovials. The protocol was written this way to allow for the possibility of some participants having enough serum for all 10. This is also the case for cryovials designated for archived serum (cryovials 15-26). Do not draw any extra tubes in order to fill all of the cryovials. Please also note that cryovials 01-05 should contain serum from draw #1 only, cryovials 06-10 should contain serum from draw #2 only.



Result of blood collection:	Processing action:
No tubes collected	No processing
Draw tube #1 only	<ul style="list-style-type: none"> <li>• Fill cryovials with aluminum foil (cryovials 13-14) and then as much as possible in cryovials 01-05.*</li> </ul>
Draw tubes #1, #2 only (drawn at 1 <sup>st</sup> draw)	<ul style="list-style-type: none"> <li>• Fill cryovials with aluminum foil (cryovials 13-14) and then as much as possible for cryovials 01-05. *</li> <li>• From draw tube #2, create blood blotter and then fill cryovials 11-12.</li> </ul>
Draw tubes #1, #2, #3 only (drawn at 1 <sup>st</sup> draw)	<ul style="list-style-type: none"> <li>• From draw tube #1, fill cryovials with aluminum foil (cryovials 13-14) and then as much as possible in cryovials 15-26.</li> <li>• From draw tube #2, create blood blotter and then fill cryovials 11-12.</li> <li>• From draw tube #3, fill as much as possible in cryovials 01-05.</li> </ul>
Draw tubes #1, #2, #3, #4 (drawn at 1 <sup>st</sup> draw)	<ul style="list-style-type: none"> <li>• From draw tube #1, fill cryovials with aluminum foil (cryovials 13-14) and then as much as possible in cryovials 15-26.</li> <li>• From draw tube #2, create blood blotter and then fill cryovials 11-12.</li> <li>• From draw tube #3, fill as much as possible in cryovials 01-05.*</li> <li>• From draw tube #4, fill remainder of cryovials 15-26 (as much as possible)</li> </ul>
Draw tubes #1, #2, #3, #4, #5 (drawn at first draw, unable to collect tube #6 from 2 <sup>nd</sup> draw)	<ul style="list-style-type: none"> <li>• From draw tube #1, fill cryovials with aluminum foil (cryovials 13-14) and then as much as possible in cryovials 15-26.</li> <li>• From draw tube #2, create blood blotter and then fill cryovials 11-12.</li> <li>• From draw tube #3, fill as much as possible in cryovials 01-05.*</li> <li>• From draw tube #4, fill remainder of cryovials 15-26 (as much as possible)</li> <li>• From draw tube #5, fill remainder of cryovial 15-26</li> </ul>

\*Please note that even though we have called for five 1mL aliquots of serum from each draw tube # 3 and 6, we don't expect every participant to reach this full amount. We realize that there will be a large percentage of participants who will not fill the 10 cryovials. The protocol was written this way to allow for the possibility of some participants having enough serum for all 10. This is also the case for cryovials designated for archived serum (cryovials 15-26). Do not draw any extra tubes in order to fill all of the cryovials. Please also note that cryovials 01-05 should contain serum from draw #1 only, cryovials 06-10 should contain serum from draw #2 only.



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**Result of blood collection:**

**Processing action:**

<p>Draw tube #1 (from 1<sup>st</sup> draw) Draw tube #6 (from 2<sup>nd</sup> draw)</p>	<ul style="list-style-type: none"><li>• From draw tube #1, fill cryovials 01-05. From draw tube #6, fill cryovials 06-10. (draw tube #1 becomes the 1<sup>st</sup> tube of the sex steroid pair; aluminum foil is now unnecessary)</li></ul>
<p>Draw tube #1 (from 1<sup>st</sup> draw) Draw tube #2 (from either draw) Draw tube #6 (from 2<sup>nd</sup> draw)</p>	<ul style="list-style-type: none"><li>• From draw tube #1, fill cryovials 01-05. From draw tube #6, fill cryovials 06-10. (draw tube #1 becomes the 1<sup>st</sup> tube of the sex steroid pair; aluminum foil is now unnecessary)</li><li>• From draw tube #2, create blood blotter and then fill cryovials 11-12.</li></ul>
<p>Draw tube #1 (from 1<sup>st</sup> draw) Draw tube #2 (from either draw) Draw tube #4 (from 2<sup>nd</sup> draw) Draw tube #5 (from 2<sup>nd</sup> draw) Draw tube #6 (from 2<sup>nd</sup> draw)</p>	<ul style="list-style-type: none"><li>• From draw tube #1, fill cryovials 01-05. From draw tube #6, fill cryovials 06-10. (draw tube #1 becomes the 1<sup>st</sup> tube of the sex steroid pair; aluminum foil is now unnecessary)</li><li>• From draw tube #2, create blood blotter and then fill cryovials 11-12.</li><li>• From draw tubes # 4 and 5, fill as much as possible in cryovials 15-26. (In this situation, aluminum foil wrapped on draw tube #1 and cryovials become unnecessary)</li></ul>
<p>Draw tube #1 (from 1<sup>st</sup> draw) Draw tube #2 (from 1<sup>st</sup> draw) Draw tube #3 (from 1<sup>st</sup> draw) Draw tube #6 (from 2<sup>nd</sup> draw)</p>	<ul style="list-style-type: none"><li>• From draw tube #1, fill cryovials covered with aluminum foil (cryovials 13-14) and then as much as possible in cryovials 15-26.</li><li>• From draw tube #2, create blood blotter and then fill cryovials 11-12.</li><li>• From draw tube #3, fill cryovials 01-05. From draw tube #6, fill cryovials 06-10.</li></ul>
<p>Draw tube #1 (from 1<sup>st</sup> draw) Draw tube #2 (from 1<sup>st</sup> draw) Draw tube #3 (from 1<sup>st</sup> draw) Draw tube #4 (from either draw) Draw tube #6 (from 2<sup>nd</sup> draw)</p>	<ul style="list-style-type: none"><li>• From draw tube #1, fill cryovials covered with aluminum foil (cryovials 13-14) and then as much as possible in cryovials 15-26.</li><li>• From draw tube #2, create blood blotter and then fill cryovials 11-12.</li><li>• From draw tube #3, fill cryovials 01-05. From draw tube #6, fill cryovials 06-10.</li><li>• From draw tube #4, fill remainder of cryovials 15-26 (as much as possible)</li></ul>

\*Please note that even though we have called for five 1mL aliquots of serum from both draw tubes # 3 and 6, we don't expect every participant to reach this full amount. Do not draw any extra tubes in order to fill all of the cryovials. Please also note that cryovials 01-05 should contain serum from draw #1 only, cryovials 06-10 should contain serum from draw #2 only.

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**Result of blood collection:**

**Processing action:**

<p>Draw tube #1 (from 1<sup>st</sup> draw) Draw tube #2 (from 1<sup>st</sup> draw) Draw tube #3 (from 1<sup>st</sup> draw) Draw tube #4 (from 1<sup>st</sup> draw) Draw tube #5 (from 1<sup>st</sup> draw) Draw tube #6 (from 2<sup>nd</sup> draw)</p>	<p>As per standard protocol</p>
<p>Draw tube #1 (from 1<sup>st</sup> draw) Draw tube #2 (from 1<sup>st</sup> draw) Draw tube #3 (from 1<sup>st</sup> draw) Draw tube #4 (from 2<sup>nd</sup> draw) Draw tube #5 (from 2<sup>nd</sup> draw) Draw tube #6 (from 2<sup>nd</sup> draw)</p>	<p>As per standard protocol</p>