Chapter 18-Adjusting Refills for Short-filled Prescriptions

1. 1 box qty, 8 refills, 0 partial

(1 box = 3 cans) 1 box qty x 3 fills (original fill + 2) = 3 boxes
200 sprays/container; 3 cans dispensed
1-2 sprays max x 3 sprays/15 minutes = 6 sprays (assume patient will use the most sprays)
200 sprays/can ÷ 6 = 33/day
1 fill of 1 box qty + 8 refills
3 cans x 3 boxes = 9 refills, 0 partial
This is a problem that was added to extend to practical applications in the workplace and only provides the information that is provided by prescribers when they write prescriptions. Nitrofar spray is used to treat acute angina attacks and it is only used occasionally. Because of the nature of the medication, third party plans would cover one box at a time. If one box would be dispensed at a time because of insurance restrictions, it would be necessary to adjust the refills to 8.

2. 5 boxes qty, 5 refills, 0 partial

1 box = 25 vials, i.e. cannot be split
10 boxes x 25 vials = 250 vials
250 vials ÷ 4 vials/day = 62.5 day supply, i.e. 5 box qty = 31 days supply
2 refills x 10 boxes = 20 boxes + 5 boxes (from original fill) = 25 boxes
25 boxes ÷ 5 boxes = 5 refills, 0 partial

3. 1 bottle qty, 15 refills, 0 partial

1 bottle = 1,000 units, i.e. cannot be split
4 bottles = 4,000 units ÷ 20 units/day = 200 days
1 bottle will equal a 50 day dose (1,000 units ÷ 20 = 50 days)
Dispense 1 bottle qty for 34 day dose
3 refills x 4 bottles = 12 bottles + 4 bottles = 16 bottles
16 bottles - 1 bottle dispensed = 15 refills, 0 partial
U-100 insulin has 100 mL and each bottle is 10 mL. One bottle would last more than 34 days, so only 1 bottle could be dispensed and the refills would be adjusted to 15.

4. 68 qty, 2 refills, 36 partial

120 capsules x 2 fills (original fill + 1) = 240 capsules
2 capsules x 34 day supply = 68 qty
240 ÷ 68 = 3.5294
1 fill of 68 qty + 2 refills
0.5294 x 68 = partial refill of 36

5. 1 bottle qty, 7 refills, 0 partial

20 drops/1 ml
2 bottles = 20 ml = 400 drops, 2 drops/day
400 drops ÷ 2 = 200 days, i.e. 1 bottle = 100 days
1 bottle = 34 days supply
3 refills x 2 bottles = 6 bottles + 1 bottle = 7 refills, 0 partial
Using 20 drops/mL, and with these directions, each bottle would last more than a month. Insurance would limit one bottle per fill and refills would be adjusted to 7.

6. 1 qty, 7 refills, 0 partial

20 drops/1 ml
1 bottle = 10 ml = 200 drops
2 bottles = 400 drops
2 drops in each eye x 2/day = 4 drops/day
400 drops ÷ 4 drops = 100 days
1 bottle = 34 days, 3 refills x 2 bottles = 6 bottles
6 bottles + 1 bottle from original fill = 7 bottles, 0 partial
7. 1 qty, 1 refill, 0 partial  
5 ml x 2 fills (original fill + 1) = 10 ml  
1 drop in left eye every 3-4 hrs = 6-8/day  
i.e. 1 fill of 1 qty (5 ml) + 1 refill, 0 partial  
The doctor only ordered one bottle with one refill; there is no need to 
adjust the prescription because of the insurance coverage.

8. 1 qty, 1 refill, 0 partial  
3.5 gm x 2 fills (original fill + 1) = 7 gm  
There is no way to ascertain amount per dose,  
i.e. 1 fill of 1 qty (3.5 gm) + 1 refill, 0 partial

9. 68 qty, 0 refills, 0 partial  
120 capsules x 1 fill (no refill) = 120 capsules  
2 capsules x 34 day supply = 68 qty  
120 ÷ 68 = 1.7647  
1 fill of 68 qty + 0 refills  
0.7647 x 68 = partial refill of 52, but as per above, no refills, i.e. 0 partial  
Since MS Contin is a Schedule II controlled substance, and Schedule II  
medications are not refillable, the patient may want to pay cash for the  
amount that is not covered by the insurance plan.

10. 34 qty, 6 refills, 2 partial  
120 capsules x 2 fills (original fill + 1) = 240 capsules  
1 capsule x 34 day supply = 34 qty  
240 ÷ 34 = 7.0588  
1 fill of 34 qty + 6 refills  
0.0588 x 34 = partial refill of 2

11. 34 qty, 4 refills, 30 partial  
100 capsules x 2 fills (original fill + 1) = 200 capsules  
1 capsule x 34 day supply = 34 qty  
200 ÷ 34 = 5.8824  
1 fill of 34 qty + 4 refills  
0.8824 x 34 = partial refill of 30  
The insurance limit is 34 tablets per prescription. Instead of 100, you  
could only dispense 34.

12. 240 qty, 1 refill, 0 partial  
240 capsules x 2 fills (original fill + 1) = 480 capsules  
8 capsules x 34 day supply = 272 qty -but- cannot be used because  
exceeds the amount of capsules in one bottle, i.e. 240 qty  
480 ÷ 240 = 2 fills  
1 fill of 240 qty + 1 refill, 0 partial

13. 68 qty, 3 refills, 28 partial  
100 capsules x 3 fills (original fill + 2) = 300 capsules  
1 g = 1,000 mg, i.e. 2 capsules x 34 day supply = 68 qty  
300 ÷ 68 = 4.4118 fills  
1 fill of 68 qty + 3 refills  
0.4118 x 68 = partial refill of 28  
The dose is two tablets per day, so a 68 tablet quantity would provide a  
34 day supply.

14. 136 qty, 1 refill, 128 partial  
200 capsules x 2 fills (original fill + 1) = 400 capsules  
4 capsules x 34 day supply = 136 qty  
400 ÷ 136 = 2.9412 fills  
1 fill of 136 qty + 1 refill  
0.9412 x 136 = partial refill of 128
15. **500 ml qty, 3 refills, 0 partial**  

500 ml qty  
15 ml x 2 = 30 ml per day  
30 ml x 34 day supply = 1020 ml  
1020 ml ÷ 500 ml = 2.04 fills  

This means the original prescription would need to be filled twice just to meet the original 34 day supply. The quantity is 1 fill of 500 ml and 3 refills afterward.

16. **1 pt. qty, 1 refill, 0 partial**  

2 mg/5 ml x 3/day = 6 mg/15 ml, i.e. the prescription is 15 ml per day  
15 ml x 34 day supply = 510 ml  
1 pt = 473 ml, i.e. 510 ml is more than the contents of 1 pt.  
1 pt. qty + 1 refill, 0 partial

17. **136 qty, 3 refills, 56 partial**  

200 capsules x 3 fills (original fill + 2) = 600 capsules  
4 capsules x 34 day supply = 136 qty  
600 + 136 = 4.4118 fills  
1 fill of 136 qty + 3 refills  
0.4118 x 136 = partial refill of 56

18. **68 qty, 3 refills, 28 partial**  

100 capsules x 3 fills (original fill + 2) = 300 capsules  
2 capsules x 34 day supply = 68 qty  
300 + 68 = 4.4118 fills  
1 fill of 68 qty + 3 refills  
0.4118 x 68 = partial refill of 28

19. **68 qty, 3 refills, 28 partial**  

100 capsules x 3 fills (original fill + 2) = 300 capsules  
2 capsules x 34 day supply = 68 qty  
300 + 68 = 4.4118 fills  
1 fill of 68 qty + 3 refills  
0.4118 x 68 = partial refill of 28

20. **34 qty, 10 refills, 26 partial**  

100 capsules x 4 fills (original fill + 3) = 400 capsules  
1 capsule x 34 day supply = 34 qty  
400 + 34 = 11.7647 fills  
1 fill of 34 qty + 10 refills  
0.7647 x 34 = partial refill of 26

21. **34 qty, 1 refill, 32 partial**  

100 capsules x 1 fill (no refill) = 100 capsules  
1 capsule x 34 day supply = 34 qty  
100 + 34 = 2.9412 fills  
1 fill of 34 qty + 1 refill  
0.9412 x 34 = partial refill of 32

22. **34 qty, 0 refills, 16 partial**  

50 capsules x 1 fill (no refill) = 50 capsules  
1 capsule x 34 day supply = 34 qty  
50 + 34 = 1.4706 fills  
1 fill of 34 qty + 0 refills  
0.4706 x 34 = partial refill of 16

23. **34 qty, 1 refill, 32 partial**  

100 capsules x 1 fill (no refill) = 100 capsules  
1 capsule x 34 day supply = 34 qty  
100 + 34 = 2.9412 fills  
1 fill of 34 qty + 1 refill  
0.9412 x 34 = partial refill of 32
24. **102 qty, 1 refill, 36 partial**

120 capsules x 2 fills (original fill + 1) = 240 capsules
3 capsules x 34 day supply = 102 qty
240 ÷ 102 = 2.3529 fills
1 fill of 102 qty + 1 refill
0.3529 x 102 = partial refill of 36

25. **68 qty, 1 refill, 64 partial**

100 capsules x 2 fills (original fill + 1) = 200 capsules
2 capsules x 34 day supply = 68 qty
200 ÷ 68 = 2.9412 fills
1 fill of 68 qty + 1 refill
0.9412 x 68 = partial refill of 64

26. **34 qty, 4 refills, 30 partial**

100 capsules x 2 fills (original fill + 1) = 200 capsules
1 capsule x 34 day supply = 34 qty
200 ÷ 34 = 5.8824 fills
1 fill of 34 qty + 4 refills
0.8824 x 34 = partial refill of 30

27. **68 qty, 1 refill, 64 partial**

100 capsules x 2 fills (original fill + 1) = 200 capsules
2 capsules x 34 day supply = 68 qty
200 ÷ 68 = 2.9412 fills
1 fill of 68 qty + 1 refill
0.9412 x 68 = partial refill of 64

28. **68 qty, 3 refills, 28 partial**

100 capsules x 3 fills (original fill + 2) = 300 capsules
2 capsules x 34 day supply = 68 qty
300 ÷ 68 = 4.4118 fills
1 fill of 68 qty + 3 refills
0.4118 x 68 = partial refill of 28

29. **68 qty, 3 refills, 28 partial**

100 capsules x 3 fills (original fill + 2) = 300 capsules
2 capsules x 34 day supply = 68 qty
300 ÷ 68 = 4.4118 fills
1 fill of 68 qty + 3 refills
0.4118 x 68 = partial refill of 28

30. **102 qty, 4 refills, 90 partial**

200 capsules x 3 fills (original fill + 2) = 600 capsules
3 capsules x 34 day supply = 102 qty
600 ÷ 102 = 5.8824 fills
1 fill of 102 qty + 4 refills
0.8824 x 102 = partial refill of 90