

Normal Menstrual Parameters

Clinical dimensions of menstrual cycle	Descriptive terms	Normal limits (5th to 95th percentiles)
Frequencies of menses (days)	Absent	
	Infrequent	>38
	Normal	24 to 38
	Frequent	<24
Regularity of menses (variation defined as shortest to longest cycle length, in days)	Regular	Variation ≤ to 9 days*
	Irregular	Variation > to 9 days*
Duration of flow (days)	Normal	≤8 days
	Prolonged	>8 days
Volume of monthly blood loss (objective)	Heavy	>80
	Normal	5 to 80
	Light	<5
Volume of monthly blood loss (objective)	Heavy	Clinical definition is subjective and defined as a volume that does not interfere with a woman's physical, social, emotional, and/or quality of life.
	Normal	
	Light	

Term	Defined as:		
Normal Menstruation	Frequency – 24 to 38 days.		
	Regularity – Variation ≤7 to 9 days. No more than seven to nine days difference between the shortest to longest cycles; cycle length is the number of days from the first day of one menstrual cycle to the first day of the next. For some young girls who have occasional or frequent long cycles, typically, but not always, the cycle length evolves spontaneously to fit norms. For others, such an evolution may not occur.		
	Duration – ≤8 days. Up to eight days; duration is the number of days of bleeding in a single menstrual period. There are no specific clinical entities that are associated with reduced duration below four days with the exception of amenorrhea.		
	Volume – Clinical definition is subjective and defined as a volume that does not interfere with a woman's physical, social, emotional, and/or material quality of life [14,15]. Research definition is ≤80 mL vaginal "blood" loss per cycle.		
Abnormal Uterine Bleeding	AUB is the overarching term used to describe any symptomatic variation from normal menstruation (in terms of frequency, regularity, duration, or volume) and also includes intermenstrual bleeding This term covers the full range of symptoms of abnormal bleeding.		
Acute Abnormal Uterine Bleeding	An episode of uterine bleeding in a woman of reproductive age, who is not pregnant, that is of sufficient quantity to require immediate intervention to prevent further blood loss.		
Chronic Abnorma Uterine Bleeding	Bleeding from the uterine body (or corpus), that is abnormal in frequency, regularity, duration, and/or volume, and has been present for at least the majority of the past six months.		

^{*}Normal variation depends on age; these data are calculated excluding short and long outliers.

Data from:

1. Fraser IS, Critchley HO, Munro MG, Broder M. A process designed to lead to international agreement on terminologies and definitions used to describe abnormalities of menstrual bleeding. Fertil Steril 2007; 87:466.



Flow Chart to Aid Abnormal Uterine Bleeding Between Menarche and Menopause



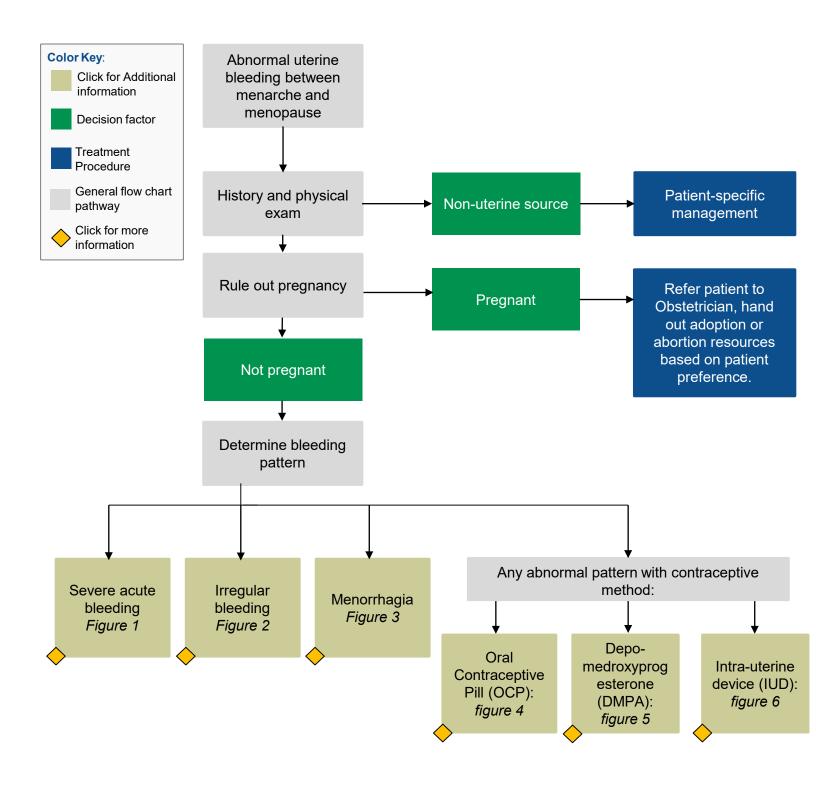




Figure 1: Severe Acute Bleeding in the Non-Pregnant Patient



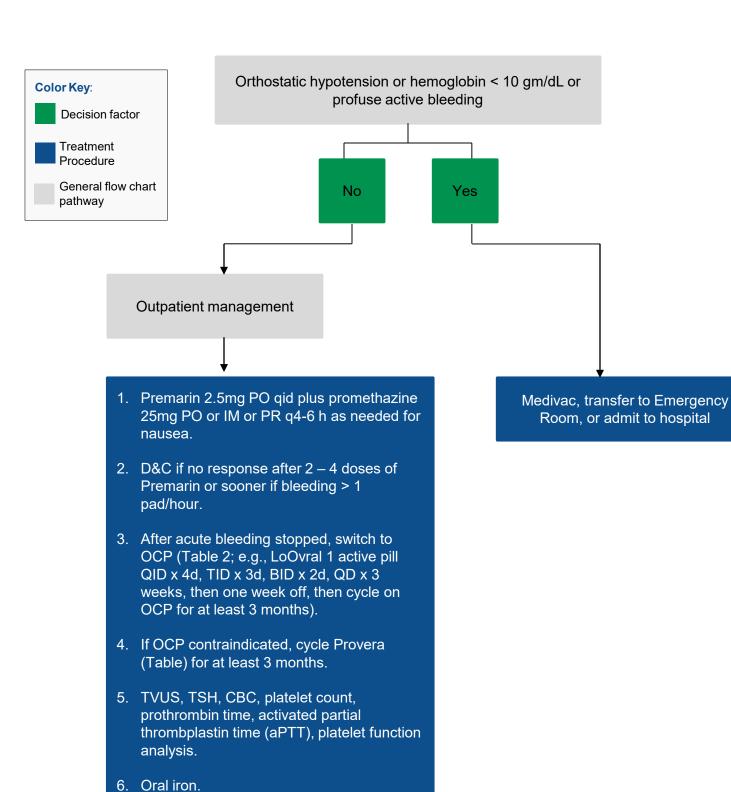




Figure 2: Irregular Bleeding in the Non-Pregnant Patient



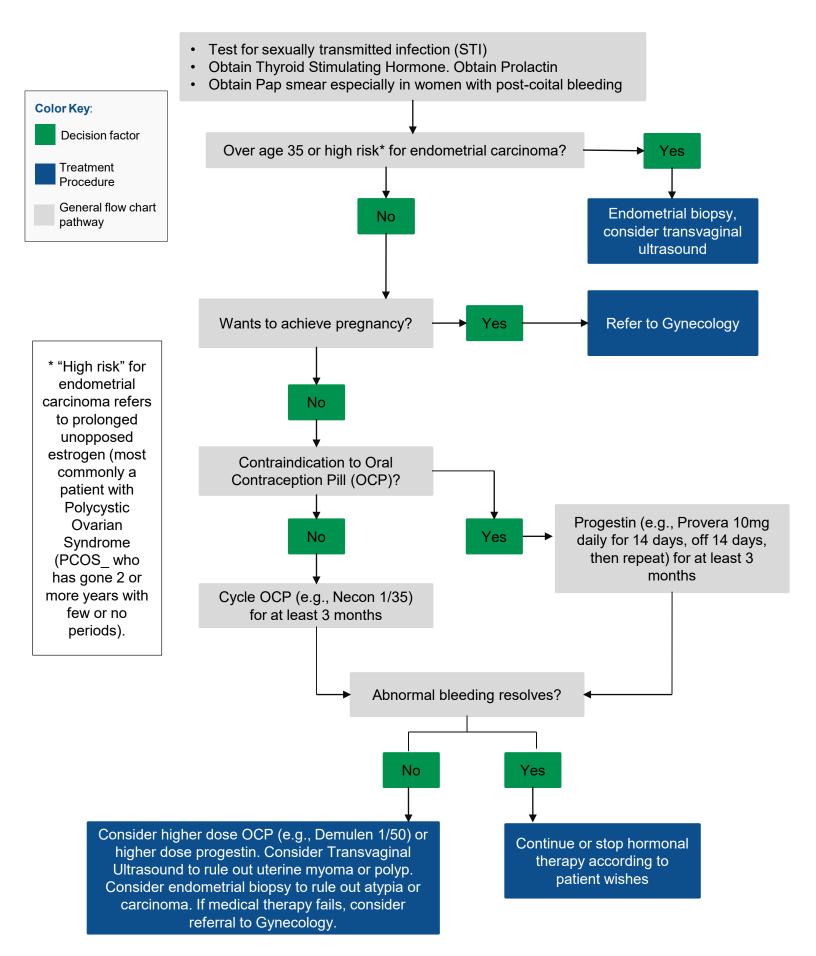




Figure 3: Menorrhagia in the Non-Pregnant Patient



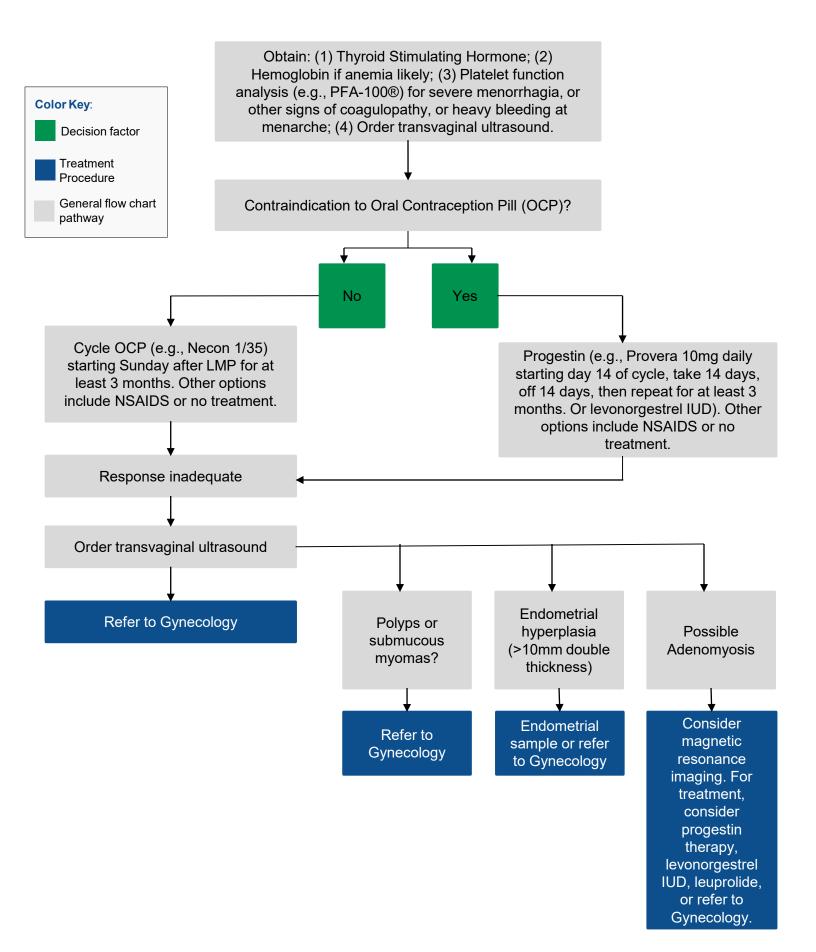




Figure 4: Oral Contraceptive Pill Associated Bleeding



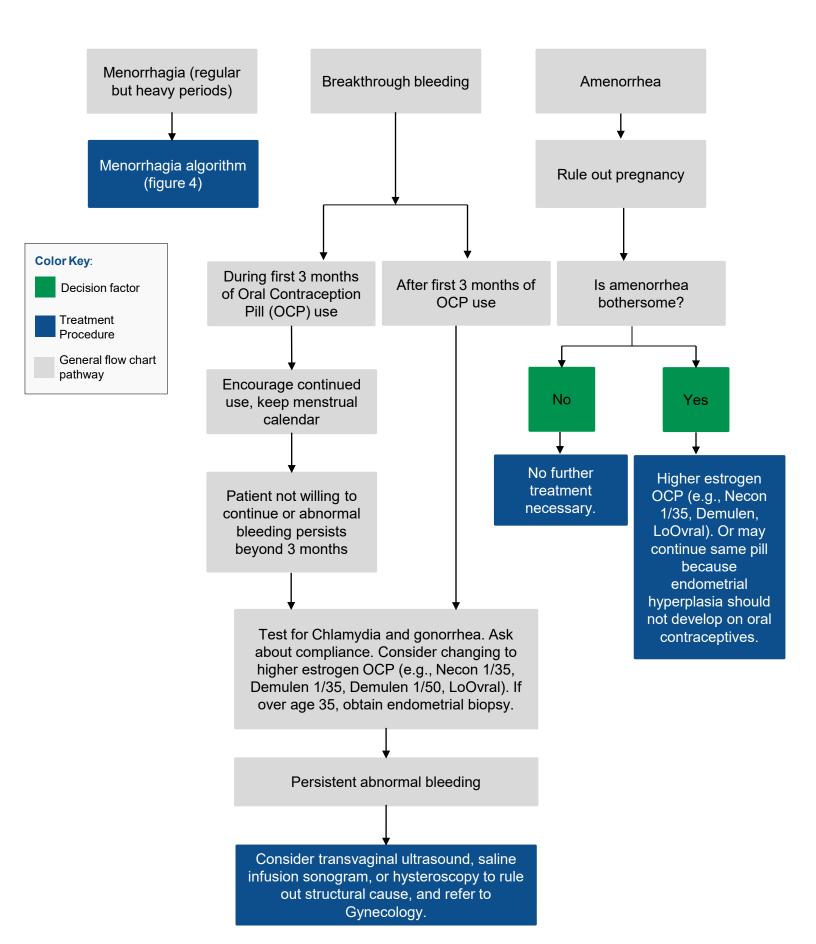
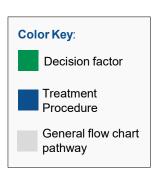




Figure 5: Depo-Medroxyprogesterone or Progesterone Only Pill-Associated Bleeding





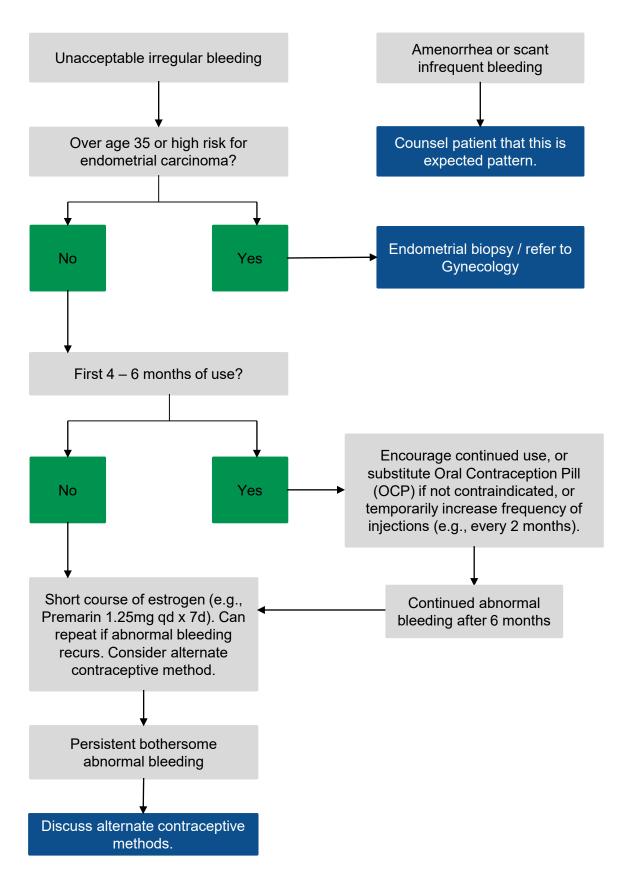
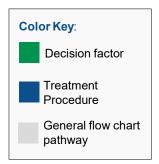
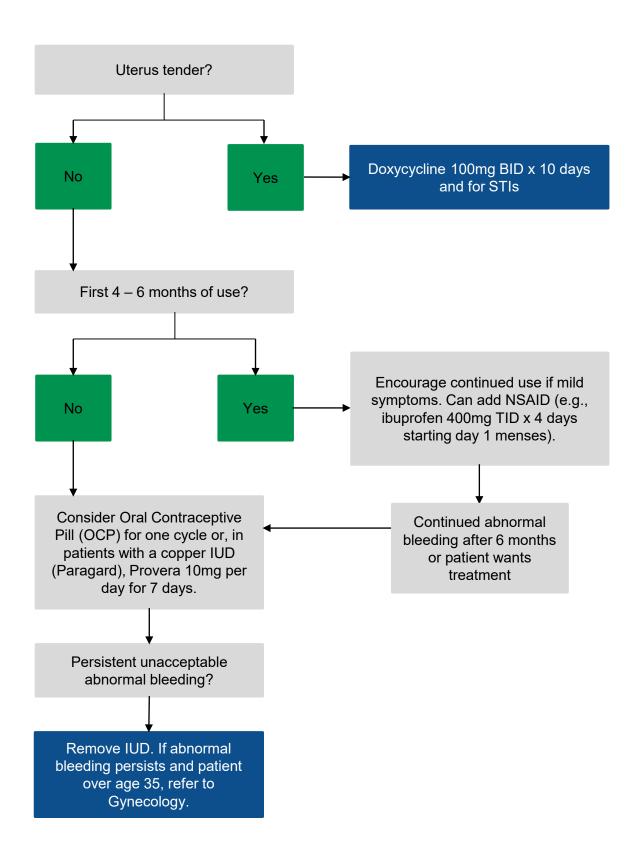




Figure 6: Intrauterine Device Associated Bleeding









Uterine Bleeding Patterns

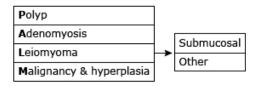


Bleeding Pattern	Definition
Bleeding	Any bloody vaginal discharge that requires the use of such protection as pads or tampons
Spotting	Any bloody vaginal discharge that is not large enough to require sanitary protection
Bleeding/Spotting Episode	One or more consecutive days on which bleeding or spotting has been entered on the diary card
Bleeding/Spotting-Free Interval	One or more consecutive days on which no bleeding or spotting has been entered on the diary card
Bleeding/Spotting Segment	One bleeding/spotting episode and the immediately following bleeding/spotting-free interval
Reference interval	The number of consecutive days upon which the analysis is based (usually taken as 90 days for women using long-acting hormonal systems, and 28 or 30 days for women using once-a-month systems, including combined oral contraception)
Different types of analysis, which can be undertaken on bleeding patterns within a reference period	Number of bleeding/spotting days Number of bleeding/spotting episodes Mean, range of lengths of bleeding/spotting episodes (or medians and centiles for box-whisker plot analysis) Mean, range (medians and centiles) of lengths of bleeding/spotting-free intervals Number of spotting days and spotting-only episodes



PALM-COEIN Classification System for Abnormal Uterine Bleeding in Nongravid Reproductive-Age Women





Coagulopathy	
Ovulatory dysfunction	
Endometrial	
I atrogenic	
Not yet classified	





Basic classification system. The basic system comprises four categories that are defined by visually objective structural criteria (PALM: polyp, adenomyosis, leiomyoma, and malignancy and hyperplasia), four that are unrelated to structural anomalies (COEI: coagulopathy, ovulatory dysfunction, endometrial, iatrogenic), and one reserved for entities that are not yet classified (N). The leiomyoma category (L) is subdivided into patients with at least one submucosal myoma (LSM) and those with myomas that do not impact the endometrial cavity (LO).