

Animal name: White faced saki (Pithecia pithecia)

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We would like to encourage all institutions using contraception in their animals to assess the health of their animals during and after contraception. This can be done through behavioural and endocrine monitoring, as well as through reproductive tract exams. Please contact EGZAC for advice on this.

Contraceptive methods	GnRH agonist (implant)	GnRH agonist (injection)	Progestagen (implants)	Progestagen (implant)	Progestagen (injection)	Progestagen (injection)	Surgical/Permanent
Contraceptive Product:	Deslorelin acetate	Luprolide acetate	Etonogestrel 68 mg	Levonorgestrel 2x 75mg	medroxyprogesterone acetate;	proligestrone 100mg/ml	
Commercial Name:	Suprelorin ®	Lupron *	implanon [®] Nexplanon [®]	Jadelle®	Depo-Provera®, Depo-Progevera®	Delvosteron®	
Product Availbility:	4.7mg ('Suprelorin 6') and 9.4 mg ('Suprelorin 12') widely available through veterinary drug distributors in the EU.	Luprolide acetate licenced for human use	Manufactired by Bayer Schering Pharma AG. Available through human drug distributors	Manufactired by Organon. Available through human drug distributors	Manufactured by Pfizer. Widely avilable throughout Europe through human drug distributors.	Manufactured by MSD animal Health UK, Intervet Europe. Licensed for use in female dogs, cats, and ferrets; available through veterinary distributors.	N/A
Restrictions and/or permit required by Importing Country:	EGZAC reccommends: always check with your local licencing authority	Data deficient	EGZAC reccommends: always check with your local licencing authority	EGZAC recommends: always check with your local licencing authority	EGZAC reccommends: always check with your local licencing authority	EGZAC reccommends: always check with your local licencing authority	N/A
Mechanism of action:	GnRH agonist suppress the reproductive endocrine system, preventing production of pituitary and gonadal hormones. As an agonist of the GnRH initially stimulates the reporductive system -which can result in oestrus and ovulation in females or temporary enhancement of testosterone and spermatogenesis in males- therefore additional contraception needed during this time. Please see belwo and refer to Deslorelin datasheet for detailed information	GnRH agonist suppress the reproductive endocrine system, preventing production of pituitary and gonadal hormones	Interference with fertilization by thickening cervicam excess, interrupting gamete transport, disruption of implantation, inhibition of LH surge necessary for ovulation	Interference with fertilization by thickening cervical mucus, interrupting gamete transport, disruption of implantation, inhibition of LH surge necessary for ovulation	Anti-estrogenic activity, Interference with fertilization by thickening cervical mucus, interrupting gamete transport, disput of implantation, inhibition of LH surge necessary for ovulation	Anti-estrogenic activity. Interference with fertilization by thickening cervical mucus, interrupting gamete transport, disruption of implantation, inhibition of LH surge necessary for ovulation	Vasectomy recommended Permanent contraception by surgical gonadectomy, likely side effects include weight gain, loss of secondary sex characteristics
Insertion/Placement:	Sub-cutaneous, in a place where it can be easily detected or seen for removal at a later date (i.e. upper inner arm); refer Suprelorin fact sheet for effective method of implant placement (tunnelisation)	Injectable	Intramuscular or subcutaneous. EGZAC recommends sub-cutaneous, upper inner arm for visibility (aid for later removal)	Intramuscular or subcutaneous. EGZAC recommends sub-cutaneous, upper inner arm for visibility (aid for later removal)	Injectable intramuscular	Injectable subcutaneously - do not inject intradermally or into subcutaneous fat or scar tissue	Surgical
Females		Data deficient					
Dose	Dosages and duration of efficacy have not been well established for primate species. Our records suggest 1 x 4.7 mg for a minimum duration of 6 months or 1 x 9 kmg for a minimum duration of 12 months. DD NOT CUT MPLANT. Please contast EGZAC for specific dosage instructions.	Dosing information is not available; extrapolation from human literature is likely the best place to start. Please contact G02AC for specific dosage instructions.	Our records suggest 1/4 to 1/2 rod, depending on weight. Please contact EGZAC advisory pannel for specific dorage instructions . Doises not well established	Recommended Ito 2 rods, depending on weight. Please contact 562AC for specific dosage instructions. Does not well established	MPA can have a variable length of duration and a much higher doe is needed than in 100 word grimates for efficacy: Zong Ago body with 0 Depo Provera, effective for approximately 30 days. For these reasons MPA is and advisable as a short term contraceptive to suppress post-partum cestrus.	A dose of 50 mg/kg of Delvosteron has been used in a collection for short term contraception being effective (or approximately 3 months. This drug is only advisable as a short term contraceptive eg to suppress port-partum century, introduction of newly vasectomised male . Repeated use not advised.	N/A
Latency to effectiveness:	I weeks average - additional contraception needed during this Irune (PELASE see product data sheet). In celoids Smg Megestrol acetate pills daily 7 days before and 7 days after implant has been used	Same as desionelin with an initial stimulation phase and suppression should then occur 3-4 weeks later (please refer to desionelin and lupron datasheet for more details).	In general inhibition of oxidation after 1 day when inserted on day 15 of cycle or when replacing or al progetogen. At the right stage during menticular cycle is often unknown, it is advised to use other contraceptive methods for at leas 17-4 days after insertion of the implant depending on administration route (Im or SC)		stage is not known then extra time must be allowed; therefore, separation of the sexes or alternative contraception should be used for at least 1 week.• Depo-Provera injection can	1-3 days post Injection. However, if the cycle stage is not known then extra time must be allowed; therefore, separation of the seves or alternative contraception should be used for at least 1 week. • Deop-Provers injection can be used to prevent the post- partum oestrus until a suitable longer term inplant can be placed or as longer term contraception.	N/A
Oestrus cycles during contraceptive treatment:	Initial destrus and ovulation (during the 3 weeks of stimulation) then no destrus cycle. To supress the initial disertors and ovulation you can follow the megestrol acetate protocol mentioned above.	Same as deslorelin.		Oestrus is inhibited. Menstruation in non- human primates are more or less present with regular cyclicity. This is an individual and dose dependent response.		Destrus behaviour may be observed. Ovulation and cycling can occur in adequately contracepted individuals (but is unlikely and the degree of suppression is dose dependent).	N/A

Use during pregnancy:	Not recommended	Not recommended	In non-human primates progestagens normality do not interfere with parturition. However in other species progestagens are not recommended for use in pregnant animals because of the risk of protonged gestation, stillbirth or abortion.	In non-human primates progestagens normally do not interfere with parturition. However in other species progestagens are not recommended for use in pregnant animals because of the risk of prolonged gestation, stillbirth or abortion.	Progestagens are not recommended in pregnant animals because of the possibility of prolonged gestation, stillbirth, abortion, etc. in some species, although the effect may depend on dose. Progestagens in late pregnancy seem not to interfere with parturition in primates, but this is a taxon- specific phenomenon.	Progestagens are not recommended in pregnant animals because of the possibility of prolonged gestation, stillbirth, abortion, etc. in some species, although the effect may depend on dose. Progestagens in late pregnancy seem not to interfere with parturition in primates, but this is a taxon-specific phenomenon.	N/A
Use during lactation:	No contraindications once lactation established	No contraindications once lactation established	Considered safe for nursing infant.	Considered safe for nursing infant.	Considered safe for nursing infant.	Considered safe for nursing infant.	N/A
Use in prepubertals or juveniles:	Data deficient in this group, see product information sheet	Data deficient in this group, see product information sheet	The use of synthetic progestagens in pre- pubertals or juveniles has not been fully assessed. Possible long-term effects on fertility are not known.	The use of synthetic progestagens in pre- pubertals or juveniles has not been fully assessed. Possible long-term effects on fertility are not known.	The use of synthetic progestagens in pre- pubertals or juveniles has not been fully assessed. Possible long-term effects on fertility are not known.	The use of synthetic progestagens in pre-pubertals or juveniles has not been fully assessed. Possible long-term effects on fertility are not known.	N/A
Use in seasonal breeders:	N/A	N/A	N/A	N/A	N/A	N/A	NA
Duration	Duration of efficacy has not been well established. As a guide: 4.7 mg implants will suppress for a MINIMUM of 6 months; 3 Amg will be effective for a MINIMUM of 12 months.	Not well established, duration of effect being likely related to the dose. Higher doses result in longer duration of effect. This is extremely data deficient	2.5-3 years in various primates	2-3 years in various primates	Dose dependant: 30 days in general. However, effects could last 1-2 years in some individuals.	Dose dependant: 30-90 days in general. However, effects could last 1-2 years in some individuals.	N/A
Reversibilty	Considered reversible but every species has not been tested. Duration to reversibility extremely variable. Removal of implant to aid reversibility is recommended.	Considered reversible but every species has not been tested, duration to reversibility extremely variable.	Designed to be fully reversible but individual variations can occur. To increase potential for full eversibility implants must be removed. the currently hold record of reversal for the species within 6 months of implant removal.	Designed to be fully reversible but individual variations can occur. To increase potential for full reversibility implants must be removed. We have one record of a revensal within one year of implant removal.	Designed to be fully reversible but individual variations can occur. We hold a record of a reversal in this species, where young were born 3 years after her final injection.	Designed to be fully reversible but individual variations can occur	N/A
Effects on Behaviour	None observed except lack of libido. There are anecdotal reports of change of hierarchy with the behavioural implications that this may have.	Same as deslorelin	Effects on behaviour have not been studied, every individual may react differently. Because progestagens can suppress ovulation it can be expected that courtship and mating behaviour will be affected in some way. Further research in the subject is necessary.				N/A
Effects on sexual physical characteristics	Similar to gonadectomy.	Some dichromatic species may change colour.	Some signs of oestrus behaviour might occur.Ovulation may also occur even though pregnancy does not ensue.	Some signs of oestrus behaviour might occur.Ovulation may also occur even though pregnancy does not ensue.	See above	See above	N/A
Males	Data deficient	Data deficient	Not recommended	Not recommended	Not recommended	Not recommended	Vasectomy
Dose	Our data suggests that 1x implants are sufficient. As a guide, 1x 4.7mg implants for a minimum duration of 6 months, and 1x9.4mg implant for a minimum duration of 12 months. Data deficient. Please contact EGZAC for specific dosage instructions.	Usually a higher dose than in females are required in males. Data deficient. Please contact EG2AC for specific dosage instructions.	N/A	N/A	N/A	N/A	N/A
Latency to effectiveness:	Depending on the species there may be fortile sperm present in via deferent for 6-3 weeks post treatment or even longer. Testolaterine derevaes alter 5-4 weeks but sperm can say lertile for many weeks after. Additional contraception needed during this time or separation of the scen.	Depending on the species there may be fertile sperm present in vas deferens for 6-8 weeks post treatment or even longer. Testostrone decreases after 3-4 weeks but sperm can styferlie for many weeks after. Additional contraception needed during this time or separation of the sexes	N/A	N/A	N/A	N/A	Depending on species and individual, perhaps as long as 2 months or more
Use in prepubertals or juveniles:	Data deficient in this group, see product information sheet	Data deficient in this group, see product information sheet	N/A	N/A	N/A	N/A	Data deficient
Use in seasonal breeders:	N/A	N/A	N/A	N/A	N/A	N/A	

Duration and Reversibility	No data yet but deslorelin is considered reversible. Data deficient in this group, see product information sheet. Testosterone related aggression is likey to decrease. Data deficient in this group, see product information sheet.	No data yet but lupron is considered reversible. Data deficient in this group, see product information sheet. Testosterone related aggression is likkey to decrease. Data deficient in this group, see	N/A N/A	N/A N/A	N/A N/A	N/A N/A	The procedure should not be used in males likely to be recommended for subsequent breeding as reversal is unlikely Vasectomy will not affect androgen-dependant behaviours
Effects on sexual physical characteristics	Some dichromatic species may change colour if testosterone ralated. Decrease in body size, feminisation of males.	product information sheet. Some dichromatic species may change colour if testosterone ralated. Decrease in body size, feminisation of males.	N/A	N/A	N/A	N/A	None observed in non-human primates
General:							
Side effects	Similar to gonadectomy; especially weight gain	Similar to gonadectomy: especially weight gain	Possible weight gain, possible increased or decreased frequency of bleeding during menstruation. ECAR recommends advance reading the manufacturer's data sheet	Possible weight gain, possible increased or decreased frequency of bleeding during menstruation. A high does can alway masculiniang effect. EGDAC recommends always reading the manufacturer's data sheet	Long term use is not recommended since it can have possible deletations effects on the uterus and mammary fiscue. Progettis are likely to cause weight gain in all species. In the human itterature, beop-Provera ¹ has been linked to mood changes. Because it holds readily to androgen receptors and is anti- etrogenic, females may experience male-like audites (increased agression, development of male secondary sec characteristics, etc.) EGLAC recommends always reading the manufacturer's data sheet.	Long term use is not recommended since it can have possible deleterious effects on the uterus and mammay tissue. Progestins are likely to cause weight gain in all species. In the human iterature, progestagens has been linked to mood changes. Because thinks readily to androgen receptors and is anti-strogenic, females may experience male like qualities (increased agession, development of male secondary sex characteristics, etc.) In some diabetic animals Debositeron has lee to an increased insuin requirement. It is advised that the product be used with caution in diabetic during is and that the good test are reclamant and any service during is and that the good test are reclamant and any service during the manufacturer's data sheet.	N/A
Warnings	Causes initial gonadal stimulation; correct administration essential - see product information sheet	Causes initial gonadal stimulation		Interaction with other drugs are known to occur and may influence protection against pregnancy. In some diabetic animas progestagens has led to an increased insulin requirement, it is advised that the product weak with caution in diabetic animas and that urine glucose levels are carefully monitored during the monitor diabetic animas. EGA2C recommends always reading the manufacturer's data sheet.	Interaction with other drugs are known to occur and may influence protection against preparancy. In some diabetic animals progestagens has led to an incressed insulin requirement, it is advised that the product be used with caution in diabetic animals and that urine glucose levels are carefully monitored during the month after dosing. IGSAC recommends always reading the manufacturer's data sheet.	Interaction with other drugs are known to occur and may influence protection against pregnancy GGAC recommends always reading the manufacturer's data sheet.	Infection of the surgical wound might occur. Intradermal closure of the skin is advised together with prophlactic antibiotic treatment and NSAID
sporting Requirements: In order to increase our knowledge of the efficacy of contraception methods in <i>Pithecia sp.</i> it is recommended that all individuals on contraception be reported to EGZAC eferences: Wildlife Contraception: Issues, Methods, and Applications. Edited by Cheryl S. Asa and Ingrid J. Porton. 2005. The John Hopkins University Press. Noah Compedium of data sheets - Delvosteron - http://www.noahcompendium.co.uk isclaimer: EGZAC endeavours to provide correct and current information on contraception from various sources. As these are prescription only medicines it is the responsibility of the veterinarian to determine the dosage and best treatment for an individual							