

Animal name: Lowland tapir (Tapirus terrestris)

Fact Sheet Compiled by: Veronica Cowl
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We would recommend assessing any contraceptive bout with behavioural and hormone monitoring. For more information on this, please contact contraception@chesterooo.org

ontraceptive methods	GnRH agonist (implant)	GnRH agonist (injection)	GnRH vaccine (injection)	Progestagen (injection)	Progestagen (oral)	PZP vaccine	Surgical/permanent
nitraceptive Product:	Deslorelin acetate	Luprolide acetate	GnRH protein conjugate	Depot medrowyprogesterone acetate	Altrenogest	PZP vaccine main components are antigens dervied from porcine zona pellucida glycoproteins and an adjuvant to stimulate the limmune response (Freund's modified complete adjuvant for primary vaccination and Freund's incomplete adjuvant for boosters).	N/A
mmercial Name:	Suprelorin ®	Lupron *	Improvac*	Depo-Provera®, Depo-Progevera®,	Regu-mate*	Porcine Zona Pellucida	Vasectomy
odust Availbility:	4.7mg (Supretorin 6') and 9.4 mg (Supretorin 12') widely available through veterinary drug distributors in the EU.	Luprolide acetate licenced for human use	Available through veterinary drug distributors.	Manufactured by Pfiser. Widely available throughout Europe through human drug distributors.	Regarmate* Equine 2.2ml/mg and solution and Regarmate* Porcine 0.4% w/v and solution widely assisted through veterinary drug distribution.	the commercially available in Europe, ITP is available to ship to Europe, it is advised that you check with the licensing authority that images the import of verticary vegits to botasia personal to import personal and in the commercial intercessary authorisations and approvals have been completed, you can Emiliable 194. The Science and Conservation Center 2000 Scholin Read Billings, WT 57500 Billings, WT 5750	N/A
strictions and/or permit required by Importing Country:	EGZAC reccommends: always check with your local licencing authority	Data deficient	Current knowledge: widely available throughout European countries. EGZAC recommends: always check with your local licencing authority	EGZAC recommends: always check with your local licencing authority	EGZA recommends: always checking with your local licencing authority	License for importation is required, licence unavailable in the UK; all other Countries unknown. EGZAC recommends always checking with local licencing authority	N/A
echanism of action:	GnR4 against suppress the reproductive endocrine system, preventing production of multiury and gnobal hormouse. As in against of the Golf4 letticity immulates the reportactive system which can retail in centru and outside	GnRH agonits suppress the reproductive endocrine system, preventing production of pituitary and gonadal hormones	Production of anti-Graft lambbofies by the immune system neutralising undegenous Graft activity. This results in a reduction of PSIs and LH production by the anterior pitatura systematic pattern and unitarily, in a reduction of ovariar folicular development and for inhibition of testinatenous secretion from the feetes and spermatogenesis.	Acti-estragenic activity, interference with fertilization by thickening crivial muco, interrupting agented transport, disruption of implication, inhistion of its origen receiver for outsiden. Deep Provence oppose, with the control of the control	interference with fertilization by thickening carvical mucus, interrupting gamete transport, disruption of implantation, limitation of UH surger necessary for evolution	The PZP antibodies interfere with fertilisation by binding to the ZP glycoportion receptors that successful the use closed female, blocking the brinding and subsequent ponetration of sperin.	Surgical procedure in which the ductus deferens are cut, tied, cauterized, or otherwise interurrupted
sertion/Placement:	Sub-cutaneous, in a place where it can be easily detected or seen for removal at a later date (it support linear arm); refer Supportions fact sheet for effective method of implant placement (humelisation).	tojectable	Injectable Inframuscular or subcutaneously	tojectable intramuscular	Administered crally in feed or by syrings. Gloves must be worn when administering Reps-mater (absorption through the skin can cause disruption to the menstrual cycle and protongation of pregnancies in humans).	tojectable inframuscular	Surgical
males							
518	Dosage depends on the body weight of the individual 1.3 x 4.7mg is recommended for a mildinum duration of is morths and 13.1 x 9.4mg is recommended for a minimum duration of 12 morths. There is recorded used 3 - 9.4 mg injust solar by the ensured in a Malayan Tapir and a Wild Ass, while 2 - 4.7mg implants have also been used in a South American Tapir with success. Please coefact EGEAC for specific dosage recommendations.	Dosing information is not available; estrapolation from human literature is likely the best place to start. Please contact EGZAC for specific dosage recommendations.	Two injections of 400µg are given 35 days apart and boosters are usually administered every 6 months/yearly.	The recommended dose is Smg/lig every 45-90 days and most records we hold start a new treatment after 90 days. Please contact RSZAC for specific dosage recommendations.	There has been a successful case in a tapir reported using this product at the recommended horse dose ($0.044m_0^2/k_B^2$). This would be $1\mu/lp_c$ therefore a "300kg tapir would receive a dose of "3mL of the 0.4 M V oral solution daily.	— 100 ug of protein. The first injection would consist of 0.5ms FZP+0.5ms. adjuvant and the second isjection should be given no later than 14 days following the primary injection. For non-seasonal breeders a bootter should be given every 74 months and in seasonal breeders a bootter should be given every 74 months and in seasonal breeders a bootter should be given every 74 months prior to the start of the breeding season.	N/A
tency to effectiveness:	3 weeks average at GnR4 agonitis initially stimulates the reproductive system please refer to Euclosetin databates the detailed leferandelon separation of the scen. Of Medical Conference of the scene. Of Medical Conference of the scene	It weeks average as GnBH agonits, initially stimulates the reproductive system please refer for Deslovelies datashees for destated information - separation of the sees of supplementary contraception is recommended during this time (see product data shee, Megestro actuated jacks) of yaday before and see a fine product data shee. Megestro actuated jackship 74 days before actuation please. The same please of the seed of the s	Unknown for most species, minimum of 5 weeks.	Lettercy to effect is 1.3 days post injection however, if the cycle stage is not loosen then sense should be separationed for 7 days. If this is not possible, megesteral acetalse piles should be administered 7 days before and 8 days after application of the injection.	Usually 1-3 days of treatment, however experitation of the seaso or internative contraceptor methods should be used for 7-1 days after first restorest. It has been demonstrated that 95% of mares treated with Rep-mate were suppressed within 3 days however, personned not be seaso or alternative contraception should be used for 7-34 days after the first administration of the product.	Latency to effect is approximately 2-3 weeks after the final injection in year 1 (primary course of vaccination 2 injections 2-4 weeks apart; preferable 3 injection(s) therefore additional contraception or separation of the sees from the initial injection to law overall ordinaing the second injection is 20 second.	N/A
estrus cycles during contraceptive treatment:	Initial cestrus and ovulation (during the 3 weeks of stimulation) then down-regulation. To prevent the stimulation phase, the megestrol scetate protocol described above is recommended.	Initial cestrus and ovulation (during the 3 weeks of stimulation) then no cestrus cycle. To supress the initial cestrus and ovulation you can follow the megestrol acetate protocol mentioned above.	If contraceptive suppression is successful then oestrus should also be suppressed fully; highly successful at inducing anoestrus in domestic horses.	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).	Ovulation and cycling can occur in adequately contracepted individuals (but is unlikely and the degree of suppression is dose dependent).	PZP should not suppress estrous cycles (but will render them infertile) and may extend the breeding season beyond what is considered typical, resulting in additional estrous cycles.	
e during pregnancy:	Not recommended	Not recommended	Not Recommended	Progestagens are not recommended in pregnant animals because of the possibility of prolonged gestation, still birth, abortion, etc.	Progestagens are not recommended in pregnant animals because of the possibility of prolonged gestation, still birth, abortion, etc.	is compatible with pregnant animals and should not interfer with the development of the foetus.	
e during lactation:	No known contraindications once lactation has been established; however, treatment during pregnancy may impede proper mammary development.	No contraindications once lactation established	Unknown	Considered safe for nursing infant.	Considered safe for nursing infant.	Does not interrupt pregnancy or affect fetus	

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Use in prepubertals or Juveniles:	Because deslorelin suppresses gonadal steroids, its use may delay epiphyseal closure of the long bones, resulting in taller individuals, similar to the effects of pre-pubertal spaying and neutrening in domestic degs and cast. Gelfit agenist use in prepubertal domestic cast was followed by reproductive cycles after treatment cased. However, species differences may occur.	Data deficient in this group, see product information sheet	Unknown	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	PZP-treated prepubertal feral horses were fertile as adults. Not associated with side effects in elephants. But there is no data for other species. Dependent on length of treatment, if used long term (approx 4 years) then infertility is entirely possible.	
Use in seasonal breeders:	Treatment should be given more than 2 months prior to expected breeding season	Data deficient. Should start at least 1 months prior the breeding season.	If used should be done at least 6 weeks prior to the breeding season. Effective in the horse. Use on the orset of the breeding season before cycling starts.	Should be injected at least 1 month before the breeding season starts.	Treatment should begin at least one month before the anticipated onset of the breeding season.	Can be used in seasonal breeders but initial treatment and annual boosters should be carried out 2 and 1 months before the start of the breeding season respectively.	N/A
Duration	Duration of efficacy has not been well established. As a guide: 4.7 mg implants will suppress for a minimum of 6 months; 9.4 mg 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.	Unknown for most of species. Improvac* generates short lived antibodies in the domestic pig (after 7-8 weeks following second injection antibodies start to decline). A full season in mares after the first booster. In a female black rinino boosters have been given every three months.	Dose dependant: 45-90 days in general. However, effects could last 1-2 years in some individuals.	Duration may not be more than one day, so has to be administered daily. Clearence of regumate from the system can occur in a few days, however latency to conception can very between individuals.	Boosters vacciantion regulared at regular intervals. Is used for short term use for no more than 3-4 years.	Permanent
Revesibility	Desionals is designed to be fully reversible, however there are currently no case of this within this train on the disclasse. Case of inversability have been demostrated in other weightere, but this is individual and tu	Considered reversible but every species has not been tested. Duration to reversibility extremely variable.	Improva: Is NOT designed to be reversible, atthough reversibility has been reported in white-tailed deer. Reversibility has unknown for most species. It is presumed to be reversible when used in the short term due to both relevant conflict. The longer is not seen to short level and reduced. The longer is not seen the reference EGZAC recommends caucious when using for an extended period of time.	Depo-Prover is designed to be reversible and we have one record of a full reversal in a lowbard uppr. The female in question had two boats of Depo-Provers in ribrary and May 2000 and give teit in the live young 3 years after that is all specials. The first leaf has a reversal with One contracting the contraction of the contraction of the contraction (mean time is 1 year however, reversals have been documented after 2 years).	Designed to be fully reversible although variations can occur.	Spaces differences an even-holley. Treatment for one 5 years has been associated with overtine feature is some cases. The providing of evention distances in some cases. The providing of evention distanger makes the mode of evention feature of the contract highly visualized captive breeding programmes or where reversibility is important. The longer Captive Developing programmes or where reversibility is important being longer from the property of the provided of the recommended that you do not use 79° has a single individual for more than 3 years if you want her to breed. (Please wide WWW.SCCPP.ORG for more information).	
Effects on Behaviour	Desions in is likely to supress some hormonal related behaviours and it has been used previously for aggression in the Somali Wild Ass with positive results.	Same as Desionelin	Similar to surgical cestration (duration of antibody effect). No centrus behaviour in mares.	Effects on behaviour have not been studied, every individual may react differently, Because It binds ready to andrage neceptors and is antiestrogenic, femilies any experience made like qualifies. Further research in the subject is necessary.	Effects on behaviour have not been studied, every individual may react differently, Because it binds ready to androgen receptors and is antestragenic, females may experience male legitalities. Further research in the subject is necessary.	Since usually the vaccine deem't suppress centrus cycles it has almost no effects on social behaviour, and no undestable behavioural effects have been registered in free ranging elephants treated for up to 9 years. In some species the failure concrete care saids in longer than usual breefing season and in some cases this can rosults in aggression and social disruption.	
Effects on sexual physical characteristics	Similar to gonadectomy. GnRH agonists may cause the suppression of physical secondary sexual characteristics.	Similar to gonadectomy. GnRH agonists may cause the suppression of physical secondary sexual characteristics.	Similar to gonadectomy (duration of antibody effect).	One side effects of using Depo-Provera is that females can develop male secondary sexual characteristic and can show an increase in aggression.	Data Deficient. Weight gain may be a possible side effect of using this product.	Data Deficient	
Males	Not Recommended as GnRH agonists are ineffective in male ungulates	Not Recommended as GnRH agonists are ineffective in male ungulates		Not recommended	Not recommended	Not recommended	
Dose	N/A	Usually a higher dose than in females are required in males. Data deficient. Please contact EGZAC for specific dosage recommendations.	Two injections of 400µg are given 35 days apart and boosters are usually administered every 6 months/yearly.	N/A	N/A	N/A	N/A
Latency to effectiveness:	N/A	Depending on the species there may be fertile sperm present in vas deferens for 6-8 weeks post treatment. Testosterone decreases after 3-4 weeks but sperm can stay fertile for many weeks after. Additional contraception needed during this time or separation of the sexes.	Latency to effect can be up to 6 weeks so separation of the sexes is recommended if possible.	N/A	N/A	N/A	There will be a latency period I don't know what it would be for various species possibly 6-8 weeks
Use in prepubertals or juveniles:	N/A	Data deficient in this group, see product information sheet	No data available, therefore its use is not recommended.	N/A	N/A	N/A	N/A
Use in seasonal breeders:	N/A	Data deficient. Should start at least 2 months prior the breeding season.	If used should be done at least 6 weeks prior to the breeding season. Effective in the horse. Use on the orset of the breeding season before cycling starts.	N/A	N/A	N/A	N/A
Duration and Reversibility	N/A	Data deficient, but lupron is considered reversible. See product information sheet.	Improvac* is NOT designed to be reversible. Unknown for most of species. Improvac* generates short lived antibodies in the domestic pig (after 7-8 weeks following second injection antibodies start to decline). A full season in mares after the first booster.	N/A	N/A	N/A	N/A
Effects on Behaviour	N/A	Testosterone related aggression is likely to decrease. Data deficient in this group, see product information sheet.	Similar to surgical castration (duration of antibody effect). Decrease male aggression due to downregulation of testosterone synthesis. Can prevent, terminate or reduce aggression/musth behaviour in bull dephants.	N/A	N/A	N/A	N/A
Effects on sexual physical characteristics	N/A	Some dichromatic species may change colour if testosterone related. Decrease in body size, feminisation of males.	Similar to surgical castration (duration of antibody effect).	N/A	N/A	N/A	N/A
General:							
Sade effects	Similar to gonodectomy, especially weight gain. Females of a species that are induced ovulators, may ovulate and become pseudo-pregnant when first treated.	in general weight gain as would be seen with ovariectomy or castration, tocrawed appetite will result in weight gain, especially in females. Moles may, some much and overlaweight floor splaced by its. Moles may become the case (we would be come to be come to be come to be come to would be and become penale programs when first treated. ECEAC recommends always reading the manufacturer's data sheet.	Panish swelling at the vaccination site may occur (apparently is very common) - need to inject deep inframacular in elephants and hones. EGZAC recommends always reading the manufacturer's data sheet.	Possible deleterious effects on the endometrium following prolonged use. Progressive are likely to case weight gain in all species. Resizues it should readily to another receptors and is an entregener. Remains law experience weight receptors and is an entregener. If make secondary are characteristics () EGAC recommended always reading the manufacturer's data sheet.	Progentagens likely cause weight gain in all species. Protible deleterious effects on sterine and mammary listease vary greatly by species. Can cause endometrals in sometic horses and cyclic foliacis in said at all odd dose. EGEAC recommends always reading the manufacturers' data sheet.	Treatment for over 5 years has been associated with ownton failure in some species (possed differenced, Significate ownton disruption has been noted in solgo, ratiose, rise and demonsic hope, Opdition, subsconed framework on solgo, ratiose, rise and demonsic hope, opditions in advanced to the solgon state of the specific s	N/A
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	Causes initial parcelad attendation. Duration may be reduced if implant is broken. So not count to implant, implants are designed to be left in and fully reversible, but removal of the implant may also aid reversibility. Should not be used in conjection with Depo-Provera.	Causes initial gonadal stimulation	It should be handled with extreme care to avoid handler accidents. EGZAC recommends always reading the manufacturer's data sheet.	Interaction with other drugs are known to occur and may influence protection against pregnancy, in some diabetic animals progestagens has led to an increased insulin requirement, as such this product is not recommended in	This product is contraindicted for use in females with a previous or current history of uterine inflammation. ICE/C (recommends slively reading the manufacturer's data sheet.	0.05%. Following the initial treatments, boosters are required, using only	The procedure should always be carried out under sterile conditions, potential for infection of the surgical wound.
Reporting Requirements: In order to increase our knowledge of the efficacy of contraception methods in taphidae family it is recommended that all individuals on contraception be reported to EGJAC							
References: 1)							
3) Disclaimer: EGZAC endeavours to provide correct and current informati	ion on contraception from various sources. As these are prescription only medicines it is the responsibility o	of the veterinarian to determine the dosage and best treatment	t for an individual				