



**PROGRAM STUDI S1 PETERNAKAN
FAKULTAS ILMU HAYATI
UNIVERSITAS PAHLAWAN TUANKU TAMBUSAI**

RENCANA PEMBELAJARAN SEMESTER

Mata Kuliah	Kode MK	Rumpun MK	Bobot (sks)	Semester	Tanggal Penyusunan
ANATOMI DAN FISILOGI TERNAK	PTP 2301	Mata Kuliah Keahlian Prodi	3 SKS	2 (DUA)	15 JULI 2019
	Dosen Pengembang RPS		Dosen Pengampu MK		Ketua Prodi
	M. Zaki, S.Pt., M.Si Umul Habiyah, S.Pt., M.Si Harfina Rais, S.Pt., M.Si		M. Zaki, S.Pt., M.Si		Maulina Novita, S.Pt., M.Si
Capaian Pembelajaran (CP)	CPL Prodi	<ol style="list-style-type: none"> 1. Bertakwa kepada Tuhan Yang Maha Esa dan mampu menunjukkan sikap religious. 2. Menjunjung tinggi nilai kemanusiaan dalam menjalankan tugas berdasarkan agama, moral, dan etika. 3. Bekerjasama dan memiliki kepekaan sosial serta kepedulian terhadap masyarakat dan lingkungan. 4. Menginternalisasi nilai, norma, dan etika akademik. 5. Menguasai pengetahuan umum tentang prinsip-prinsip kepemimpinan, komunikasi, dan manajemen sumberdaya peternakan, sehingga mampu mengimplementasikannya dalam dunia kerja. 6. Menguasai konsep penyelesaian masalah peternakan yang berbasis ilmu dan metode penelitian. 7. Mampu menerapkan teknologi peternakan yang berorientasi pada peningkatan produksi, efisiensi, kualitas, dan keberlanjutan yang dilandasi oleh penguasaan ilmu pengetahuan yang meliputi pengembangbiakan, pakan, pengorganisasian sistem produksi ternak berkelanjutan, pengolahan hasil, dan manajemen pemasaran. 			
	CP-MK	Melalui mata kuliah ini diharapkan mahasiswa mampu menjelaskan peran organ tubuh dan menghubungkan fungsi sistem dalam tubuh vertebrata terutama manusia dengan benar			
Deskripsi Singkat MK	Mata kuliah ini membahas tentang fisiologis darah pada hewan, sirkulasi darah pada hewan, fisiologis makanan pada hewan, fisiologis respirasi pada hewan, fisiologis gerak pada hewan, fisiologis saraf pada hewan, termogulasi pada hewan, osmoregulasi pada hewan.				
Materi Pembelajaran/ Pokok Bahasan	<ul style="list-style-type: none"> • ruang lingkup fisiologi hewan • fisiologis darah pada hewan • sirkulasi darah pada hewan • fisiologis makanan pada hewan • fisiologis respirasi pada hewan • fisiologis gerak pada hewan • fisiologis saraf pada hewan • termogulasi pada hewan 				
Pustaka	<ul style="list-style-type: none"> • Eckert, R and D. Randall. 1983. Animal Physiology, Mechanisms and Adaptations. 3rd ed. W.H. Freeman and Company, USA. • Ganong, W.F. 1999. Fisiologi Kedokteran. Edisi 17. Penerbit buku kedokteran. EGC. • Gordon, M.S, G.A. Bartholomew, A.D. Grinnell, C.B. Jorgensen and F.n. White. 1977. Animal Physiology; Principles and Adaptations. 3rd ed. Macmillan Publishing Co., Inc. New York 				

	<ul style="list-style-type: none"> • Kasa, dkk. 2006. <i>Bahan Ajar Fisiologi Hewan</i>. Laboratorium Fisiologi Hewan Jurusan Biologi. Fakultas MIPA. Universitas Udayana. Bali • Sherwood, Lauralee. 2001. <i>Fisiologi Manusia, Dari Sel Ke Sistem</i>. Edisi 2. Terjemahan. Penerbit buku kedokteran ECG. 					
Media Pembelajaran	<i>White board, spidol Pengeras Suara, Laptop, LCD dan multi media class equip ment</i>					
Team Teaching						
Matakuliah Prasyarat						
Minggu Ke-	Kemampuan Akhir yang diharapkan (Sub-CP MK)	Indikator	Materi Pembelajaran	Metode Pembelajaran	Estimasi Waktu	Kriteria, Bentuk dan Bobot Penilaian
1	Mahasiswa dapat menjelaskan ruang lingkup mata kuliah fisiologi hewan	Mengetahui : <ul style="list-style-type: none"> • Cakupan materi kuliah 1 semester • Sasaran dan manfaat materi kuliah • Kontrak Perkuliahan 	<ul style="list-style-type: none"> ○ Pendahuluan ○ Fungsi Darah ○ Komposisi Darah. 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
2	<ul style="list-style-type: none"> • Mahasiswa dapat menjelaskan proses dan konsep fisiologis darah pada hewan • Mahasiswa dapat menjelaskan terjadinya perubahan proses fisiologis darah baik akibat faktor internal maupun eksternal 	Mempelajari dan mendiskusikan: <ul style="list-style-type: none"> • Hemoglobin • Derivat Hemoglobin • Pigmen respirasi lain • Hemolisa, Krenasi dan Fragilitas • Pembekuan Darah • Hematokrit • Menghitung Jumlah Sel Darah 	<ul style="list-style-type: none"> • Hemoglobin • Derivat Hemoglobin • Pigmen respirasi lain • Hemolisa, Krenasi dan Fragilitas • Pembekuan Darah • Hematokrit • Menghitung Jumlah Sel Darah 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
3	Memahami proses dan konsep Sirkulasi darah pada hewan	Mengkaji melalui : <ul style="list-style-type: none"> • penjelasan dosen, diskusi, pustaka, internet, slide 	<ul style="list-style-type: none"> • Sistem peredaran Darah • Sifat Fungsional Jantung • Struktur Jantung • Konduksi dan Persyarafan pada Jantung 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
4	Mampu memecahkan masalah bila terjadi perubahan sirkulasi darah baik akibat faktor internal maupun eksternal	Mengkaji melalui : <ul style="list-style-type: none"> • penjelasan dosen, diskusi, pustaka, internet, slide 	<ul style="list-style-type: none"> • Azas Dinamika Zat Alir • Tekanan Darah • Kerja jantung 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
5	<ul style="list-style-type: none"> • Memahami proses fisiologis makan pada hewan • Mampu memecahkan 	Mengkaji melalui : <ul style="list-style-type: none"> • penjelasan dosen, diskusi, pustaka, internet, slide 	<ul style="list-style-type: none"> • Mekanisme Makan Hewan • Pencernaan (Digestion) 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah

	masalah bila terjadi perubahan proses fisiologis makan		<ul style="list-style-type: none"> • Penyerapan (Absorption) • Pembuangan (Defecation) 			
6	Memahami proses dan konsep fisiologis respirasi pada hewan	Mengkaji melalui : <ul style="list-style-type: none"> • penjelasan dosen, diskusi, pustaka, internet, slide 	<ul style="list-style-type: none"> • Sistem respirasi • Fungsi sistem Respirasi • Difusi gas • Difusi dan kelarutan gas O₂ • Laju metabolisme 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
7	Mampu memecahkan masalah bila terjadi perubahan proses fisiologis respirasi baik akibat faktor internal maupun eksternal	<ul style="list-style-type: none"> • Mekanisme Ventilasi Udara • Pernapasan pada Ikan, Katak, • Burung dan Mamalia 	Mengkaji melalui : <ul style="list-style-type: none"> • penjelasan dosen, diskusi, pustaka, internet, slide 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
8	Ujian Tengah Semester					
9-10	<ul style="list-style-type: none"> • Memahami proses dan konsep fisiologis gerak pada hewan • Mampu memecahkan masalah bila terjadi perubahan proses fisiologis gerak baik akibat faktor internal maupun eksternal 	Mengkaji melalui : <ul style="list-style-type: none"> • penjelasan dosen, diskusi, pustaka, internet, slide 	<ul style="list-style-type: none"> • Gerak • Gerak dengan otot • Rangsangan dan kontraksi otot • Perubahan yang terjadi selama otot berkontraksi • Hutang oksigen • Mekanisme kontraksi otot • Sistem Produksi energi 5.8. Neuromuscular junction	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	2 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
11	Memahami proses dan konsep fisiologis saraf pada hewan	Mengkaji melalui : <ul style="list-style-type: none"> • penjelasan dosen, diskusi, pustaka, internet, slide 	<ul style="list-style-type: none"> • Pendahuluan • Sifat dasar sistem saraf • Eksitasi saraf • Sinaps • Konduksi Impuls melalui celah sinaptik • Reseptor 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
12	Memahami proses dan konsep termoregulasi	Ketepatan dan Penugasan	<ul style="list-style-type: none"> • Pengaturan suhu tubuh 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian

	pada hewan		<ul style="list-style-type: none"> • Pertukaran panas antara tubuh dan lingkungan • Produksi panas tubuh • Mekanisme pertukaran panas antara tubuh dan lingkungan 	<ul style="list-style-type: none"> • Diskusi 		<ul style="list-style-type: none"> • Membuat Resume • Membuat Makalah
13	Mampu memecahkan masalah bila terjadi perubahan proses termoregulasi baik akibat faktor internal maupun eksternal	Mampu memecahkan masalah bila terjadi perubahan proses termoregulasi baik akibat faktor internal maupun eksternal	<ul style="list-style-type: none"> • Pengaruh perubahan suhu terhadap metabolisme • Termogenesis • Dormansi 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
14	Memahami proses dan konsep osmoregulasi pada hewan	Memahami proses dan konsep osmoregulasi pada hewan	<ul style="list-style-type: none"> • Mekanisme osmoregulasi • Eksresi • Macam-macam organ ekskresi 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
15	Mampu memecahkan masalah bila terjadi perubahan proses osmoregulasi baik akibat faktor internal maupun eksternal	<p>8.4. Mekanisme dan proses filtrasi</p> <p>8.5. Keseimbangan Na^+Cl^-</p> <p>8.6. Pengaturan Na^+ dalam ginjal</p> <p>8.7. Keseimbangan air</p> <p>8.8. Pengukuran filtrat glomerulus</p>	<ul style="list-style-type: none"> • Mekanisme dan proses filtrasi • Keseimbangan Na^+Cl^- • Pengaturan Na^+ dalam ginjal • Keseimbangan air • Pengukuran filtrat glomerulus 	<ul style="list-style-type: none"> • Ceramah • Tanya Jawab • Diskusi 	1 x 100 menit	<ul style="list-style-type: none"> • Test • Uraian • Membuat Resume • Membuat Makalah
16	Ujian Akhir Semester					

DAFTAR HADIR DAN BATAS PERKULIAHAN SEMESTER II



MATA KULIAH ANATOMI DAN FISILOGI TERNAK

DOSEN:

M. ZAKI, S.Pt, M.Si

**PROGRAM STUDI S1 PETERNAKAN
FAKULTAS TEKNIK
UNIVERSITAS PAHLAWAN TUANKU TAMBUSAI
T.A. 2022/2023**

UNIVERSITAS PAHLAWAN TUANKU TAMBUSAI
 FAKULTAS ILMU HAYATI
 PROGRAM STUDI PETERNAKAN

BATAS MATERI KULIAH

Mata Kuliah : ANATOMI DAN FISILOGI TERNAK

Semester / SKS : 2 / 3

Kelas/Tahun Akd: A / 2021/2022 Genap

Dosen Pengampu : M. ZAKI, S.Pt, M.Si

Dosen Pengajar :

NO	HARI/TGL	MATERI	PARAF DOSEN	P. KETUA KELAS
1	Sabtu / 12-3-22	Pendahuluan, Darah	DF	AA
2	Sabtu / 19-3-22	Fisiologi Darah pada Hewan	DF	AA
3	Sabtu / 26-3-22	Sirkulasi Darah pada Hewan	DF	AA
4	Sabtu / 9-4-22	Tekanan Darah. Kerja Jantung	DF	AA
5	Sabtu / 16-4-22	Fisiologi Makan pada Hewan	DF	AA
6	Sabtu / 23-4-22	Fisiologi Respirasi pada Hewan	DF	AA
7	Sabtu / 14-5-22	Mekanisme Ventilasi Udara	DF	AA
8	Rabu / 10-5-22	UTS	DF	AA
9	Sabtu / 21-5-22	Fisiologi Gerak pada Hewan	Zuf	AA
10	- - -	Faktor Internal & Eksternal F.G.	Zuf	AA
11	Sabtu / 28-5-22	Fisiologi Saraf pada Hewan	Zuf	AA
12	Sabtu / 4-5-22	Konsep Termoregulasi pada Hewan	Zuf	AA
13	- - -	Proses Termoregulasi baik akibat faktor internal maupun eksternal	Zuf	AA
14	Sabtu / 11-5-22	Konsep Osmoregulasi pada Hewan	Zuf	AA
15	Sabtu / 18-5-22	Faktor Internal & Eksternal Osmoregulasi	Zuf	AA
16				

DAFTAR HADIR KULIAH
PROGRAM STUDI PETERNAKAN - FAKULTAS ILMU HAYATI

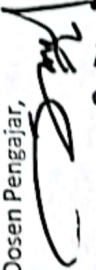
Mata Kuliah : ANATOMI DAN FISILOGI TERNAK
Semester / SKS : 2 / 3
Kelas / Tahun Aka : A / 2021/2022 Genap

Dosen Pengampu : M. ZAKI, S.Pt., M.Si
Dosen Pengajar :

Validation ID: 20212-FIH-54231-008

NO	NIM	NAMA MAHASISWA	PERTEMUAN KE/ HARI/ TANGGAL																Ket
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	2154231001	ADINDA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
2	2154231002	BHAT BINYUSJAR	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
3	2154231003	BOWO ARIAYANTO	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
4	2154231004	ELSI RIJA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
5	2154231005	HERDLINDRA PRADANA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
6	2154231006	ILHAM SYAHPUTRA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
7	2154231007	KHAIRIL TIVANA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
8	2154231008	LOBI HASIBUJAN	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
9	2154231009	M. SAIDAL KHUDDRI	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
10	2154231010	MAYA PUSPITA TRI RIZKY	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
11	2154231011	MUROBBI ALHAN	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
12	2154231012	RAHMAT ARIDHALLAH	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
13	2154231013	SYUKRI HADI MAHENDRA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
14	2154231014	WAHYU ARLANGGA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
15	2154231015	YUSRIZAL YUNUS	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
16	2154231016	MUHAMMAD ERFANSYAH	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
17	2154231017	BENI AZHAR	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
18	2154231018	DEWI WIDHAYATI	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
19	2154231019	MHD. ZAKI ABDILLAH	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
20	2154231020	M. HAPIZULLAH	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
21	2154231021	ALDI PRAHADI NATA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
22	2154231022	AHMAD FATHONI	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
23	2154231023	RISKI ISPIRANDA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
24	2154231024	MIFTAHL AQSHA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
25	2154231025	SAHWADI	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
26	2154231026	ADRYAN MAHAPUTRA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
27	2154231027	MUTHANDA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
28	2154231028	EFRI YUNIZAR	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
29	2154231029	AZIS WAHYU SAPUTRA	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
30	2154231030	FIRLI	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	
31	2154231031	NOFFAN KURNIA RAMADHAN	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	Had	

PARAF DOSEN																							
TANGGAL PERTEMUAN																							
JUMLAH MAHASISWA YANG HADIR HARI INI																							

Bangkinang, 28 / 07 / 2022
 Dosen Pengajar,

M. Rizki S. Pt. M.Si
NIDN 1027078803

Mengetahui,
 Ketua Program Studi,

MAULINA NOVITA, S.Pt., M.Si

CATATAN:

- * Jumlah tatap muka / pertemuan mahasiswa tidak boleh kurang dari 80%
- * Absen harus ditandatangani tidak boleh di checklist
- * Pakaian untuk mahasiswa: tidak boleh memakai sandal, kaos oblong, anting, kalung, gelang
- * Pakaian untuk mahasiswa: tidak boleh memakai sandal, kaos ketat atau baju transparan

**DAFTAR NILAI MAHASISWA
PROGRAM STUDI PETERNAKAN
FAKULTAS ILMU HAYATI
UNIVERSITAS PAHLAWAN TUANKU TAMBUSAI**

Mata Kuliah : Anatomi & Fisiologi Ternak Jurusan : S1 Peternakan
Dosen Pengampu : M. Zaki, S.Pt, M.Si Sem/SKS : 2/3

NO	NIM	NAMA	Tugas Mandiri	Tugas Terstruktur	UTS	UAS	Nilai Angka	Nilai Huruf
1	2154231001	ADINDA	85,00	85,00	85,00	80,00	83,25	A-
2	2154231003	BOWO ARIYANTO	85,00	90,00	80,00	80,00	82,25	A-
3	2154231004	ELSI RIJA	85,00	85,00	90,00	85,00	86,75	A
4	2154231005	HERDI INDRA PRADANA						
5	2154231006	ILHAM SYAHPUTRA	80,00	80,00	85,00	75,00	80,00	A-
6	2154231007	KHAIRIL TIVANA	80,00	80,00	85,00	75,00	80,00	A-
7	2154231008	LOBI HASIBUAN	80,00	85,00	85,00	75,00	80,75	A-
8	2154231010	MAYA PUSPITA TRI RIZKY	85,00	85,00	80,00	85,00	83,25	A-
9	2154231011	MUROBBI ALHAN	80,00	80,00	85,00	75,00	80,00	A-
10	2154231012	RAHMAT ARIDHALLAH	80,00	80,00	85,00	75,00	80,00	A-
11	2154231013	SYUKRI HADI MAHENDRA	85,00	85,00	90,00	80,00	85,00	A
12	2154231014	WAHYU ARLANGGA	80,00	80,00	85,00	75,00	80,00	A-
13	2154231015	YUSRIZAL YUNUS	80,00	80,00	85,00	75,00	80,00	A-
14	2154231016	MUHAMMAD ERFANSYAH	80,00	80,00	85,00	75,00	80,00	A-
15	2154231017	BENI AZHAR	85,00	85,00	80,00	80,00	81,50	A-
16	2154231018	DEWI WIDIANTI						
17	2154231019	MHD.ZAKI ABDILLAH	80,00	80,00	85,00	75,00	80,00	A-
18	2154231020	M. HAPIZULLAH	80,00	80,00	85,00	75,00	80,00	A-
19	2154231021	ALDI PRAHADI NATA	80,00	80,00	85,00	75,00	80,00	A-
20	2154231022	AHMAD FATHONI	80,00	80,00	85,00	75,00	80,00	A-
21	2154231023	RISKI ISPIRANDA	85,00	85,00	80,00	80,00	81,50	A-
22	2154231026	ADRYAN MAHAPUTRA						
23	2154231029	AZIS WAHYU SAPUTRA	80,00	80,00	80,00	80,00	80,00	A-
24	2154231030	FIRLI	80,00	80,00	80,00	80,00	80,00	A-
25	2154231031	NOFFAN KURNIA R	80,00	80,00	80,00	80,00	80,00	A-

**Bangkinang, 19 Agustus 2022
Dosen Pengampu**

M. Zaki, S.Pt, M.Si

Anatomi & Fisiologi Reproduksi Ternak Betina

Oleh: Muhammad Zaki, S.Pt, M.Si

Deskripsi:

Pemahaman tentang bentuk dan struktur (anatomi) organ reproduksi ternak betina serta fungsi organ reproduksi ternak betina (fisiologi) secara lengkap.

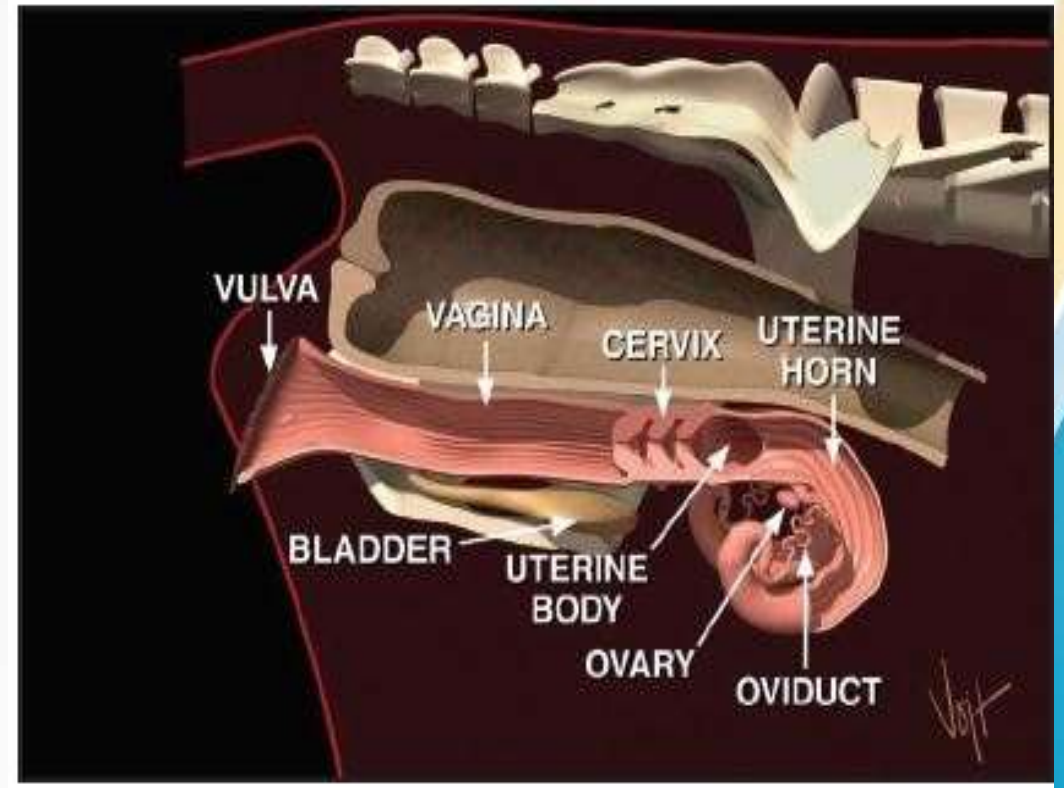
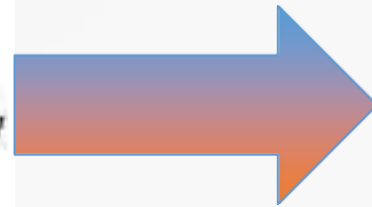
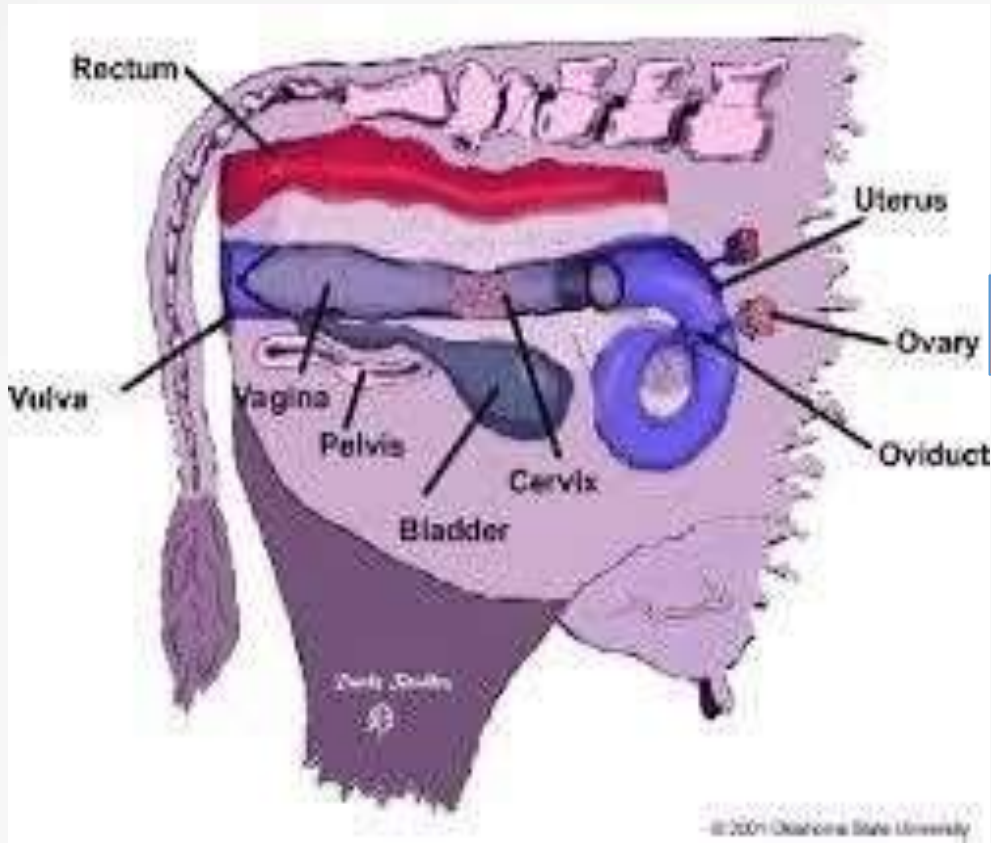
Tujuan :

Peserta hafal dan memahami anatomi dan fisiologi reproduksi ternak betina

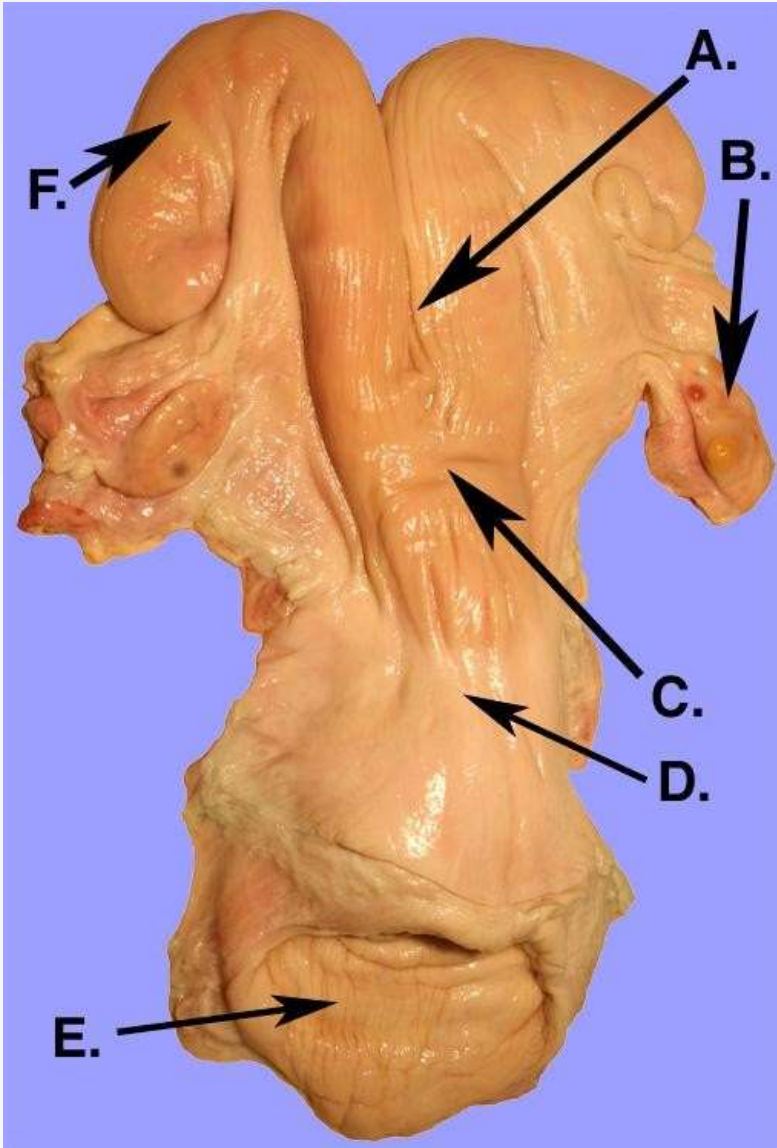
ALAT KELAMIN BETINA

- **ALAT KELAMIN UTAMA → OVARIUM**
- **SALURAN SALURAN REPRODUKSI**
 1. TUBA FALLOPII
 2. UTERUS
 3. SERVIKS
 4. VAGINA
- **ALAT KELAMIN LUAR**
 1. VULVA
 2. KLITORIS

GAMBAR ILUSTRASI ANATOMI REPRODUKSI SAPI BETINA



ANATOMI REPRODUKSI SAPI BETINA



Keterangan

A. Corpus Uteri

B. Ovarium

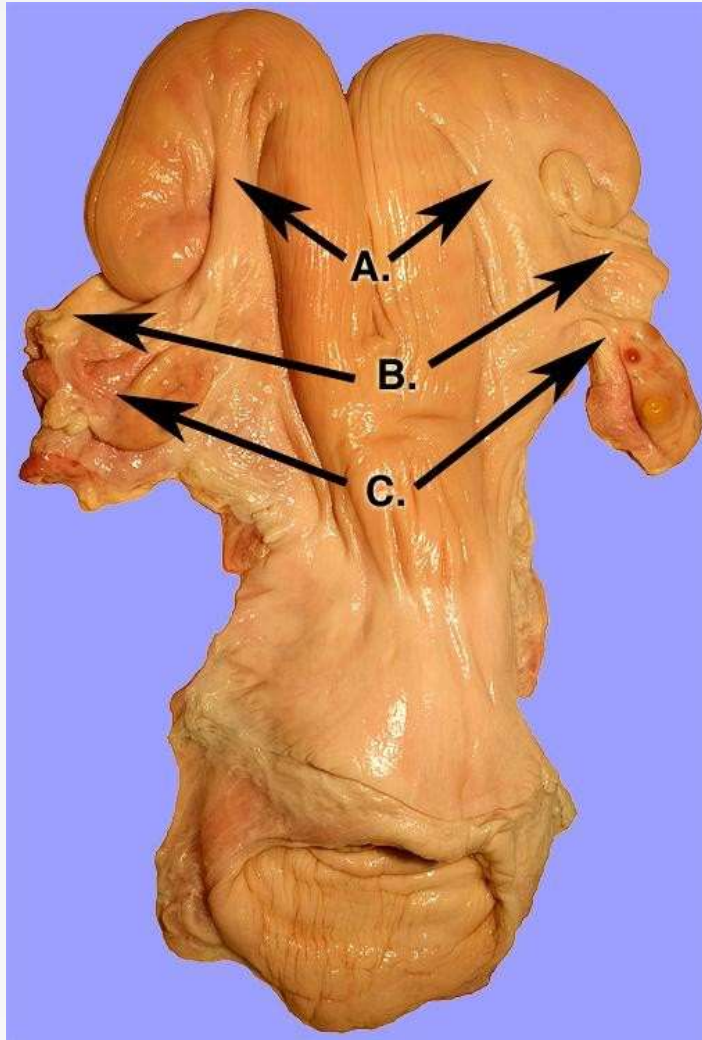
C. Bifucartio

D. Servik

E. Vagina

F. Cornua Uteri

LIGAMENTUM/ PENGGANTUNG

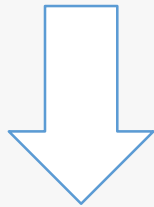


- Keterangan
- A. Mesometrium
- B. Mesosalpinx
- C. Mesovarium

OVARIUM

FUNGSI

- ENDOKRIN
- EKSOKRIN



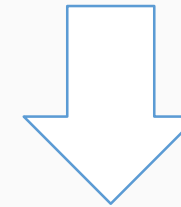
Endokrin : Menghasilkan Hormon
(Estrogen, Progesteron,
Inhibin, Activin, PGE₂,)
Eksokrin : Menghasilkan Gamet
(Ovum)

ALAT PENGANTUNG

- MESOVARIVM

BENTUK

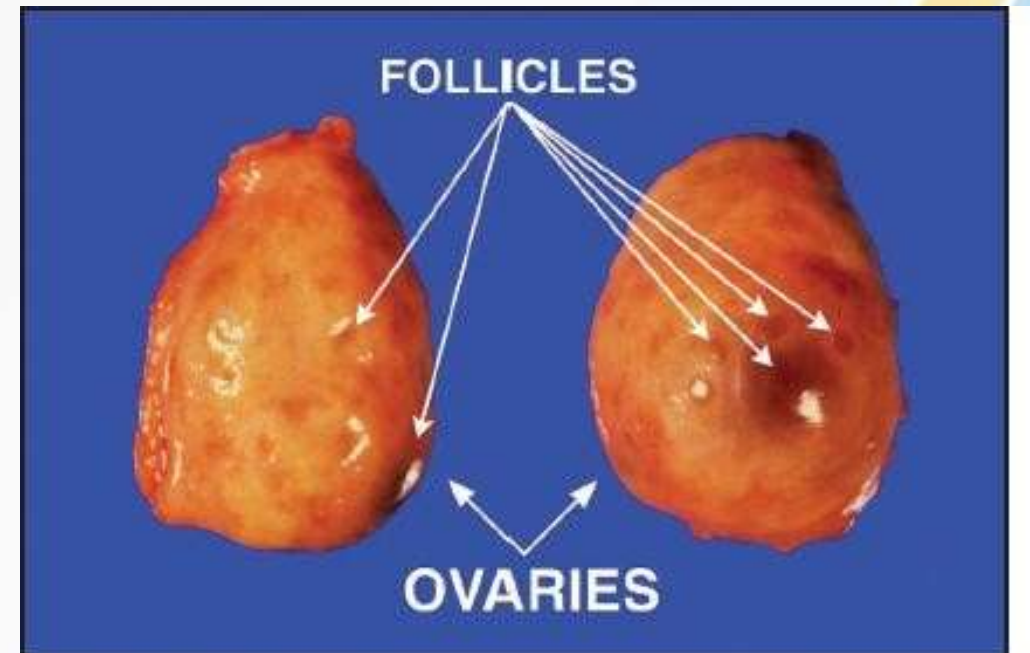
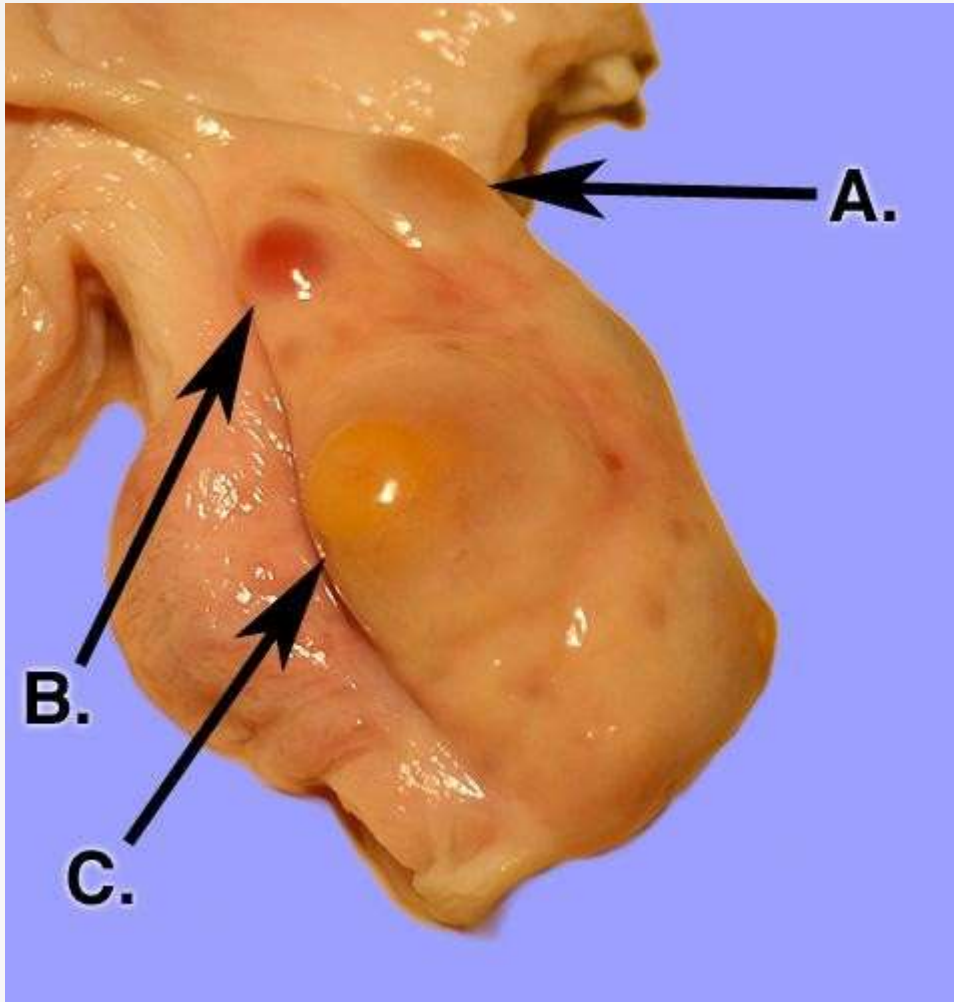
- TERGANTUNG
SPESIES



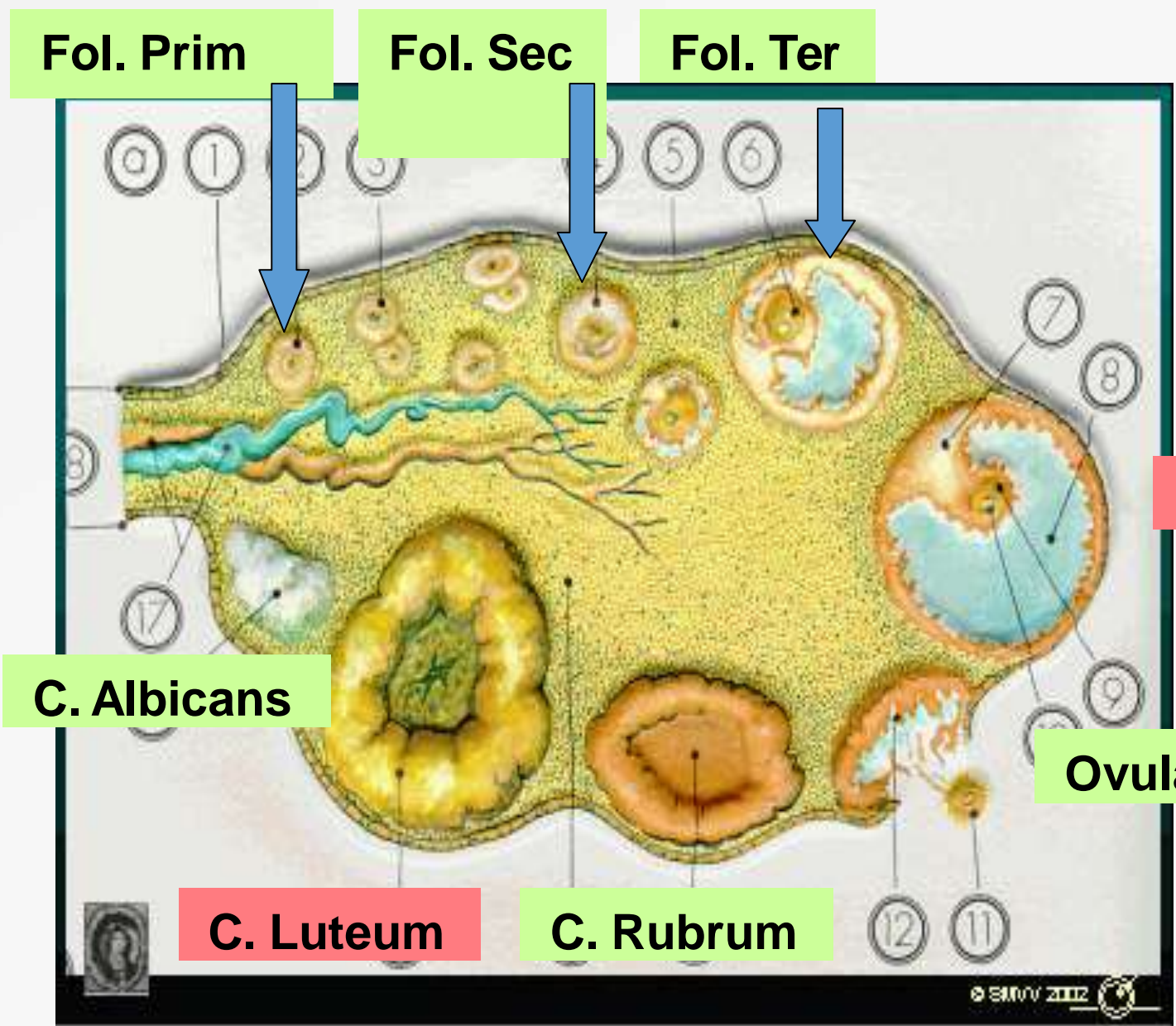
HEWAN	Domba /kambing	Sapi	Babi	Kuda
BENTUK	Lonjong	Lonjong	Seperti Anggur	Seperti Ginjal dan terdapat fosa ovulatorik

GAMBARAN ANATOMI OVARIUM

- Keterangan:
A dan B : Folikel
C : Korpus Luteum



o
v
a
r
i
u
m



Fol. Prim

Fol. Sec

Fol. Ter

Fol. De Graf

C. Albicans

Ovulasi

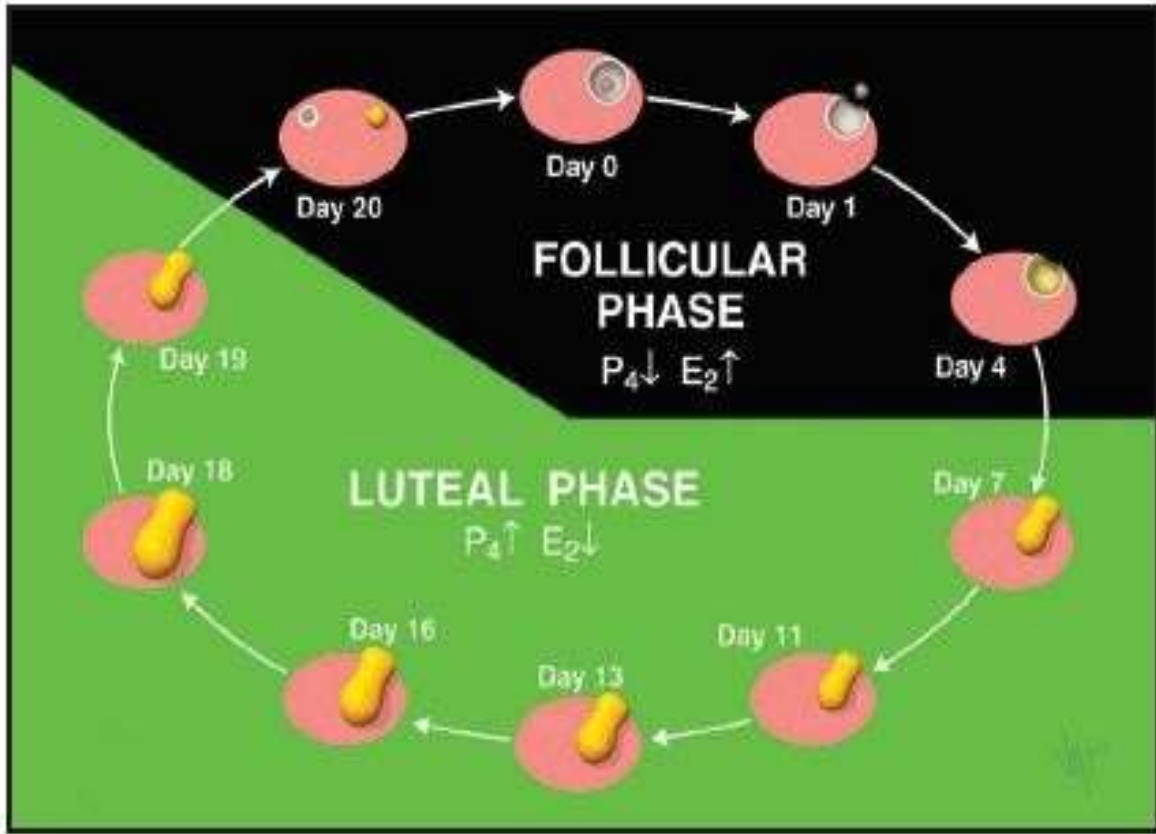
C. Luteum

C. Rubrum

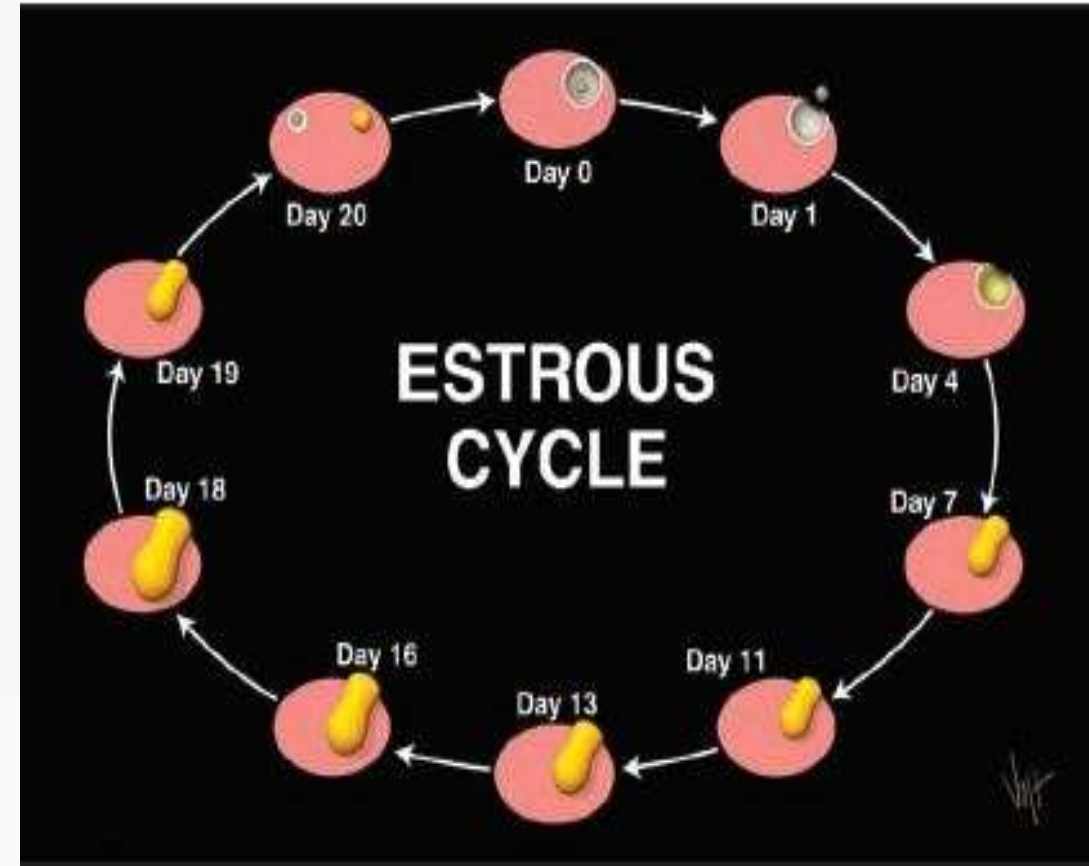
AKTIVITAS OVARIUM



GAMBAR ILUSTRASI AKTIVITAS OVARIUM



Fase Folikuler dan Luteal

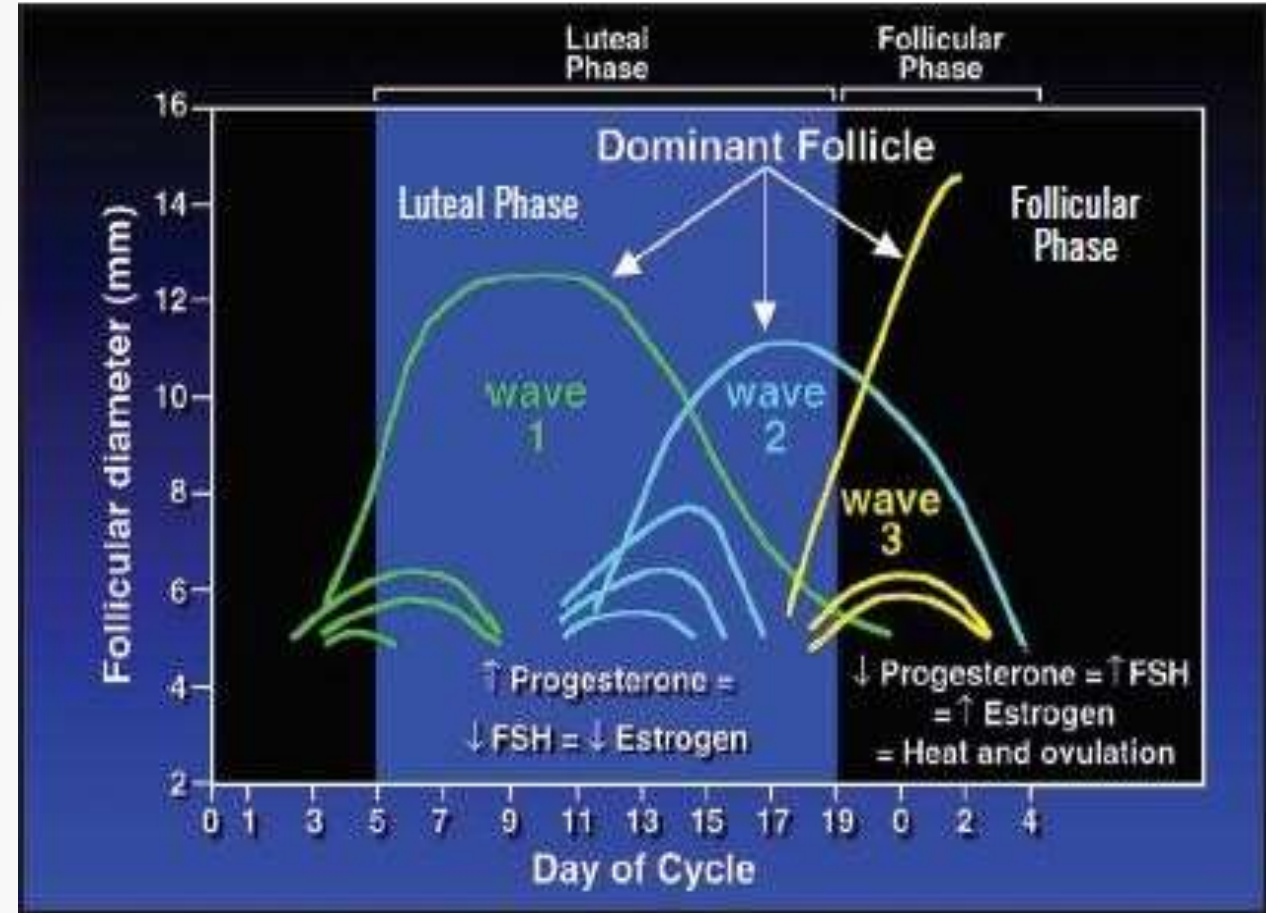


Siklus Estrus

AKTIVITAS HORMONAL OVARIUM



Regulasi Hormon
(Hipotalamus-Hipofise-Ovarium)



Gelombang Folikel

TUBA FALOPII

BAGIAN

- INFUNDIBULUM DENGAN FIMBRIE
- AMPULA
- ISTHMUS

FUNGSI

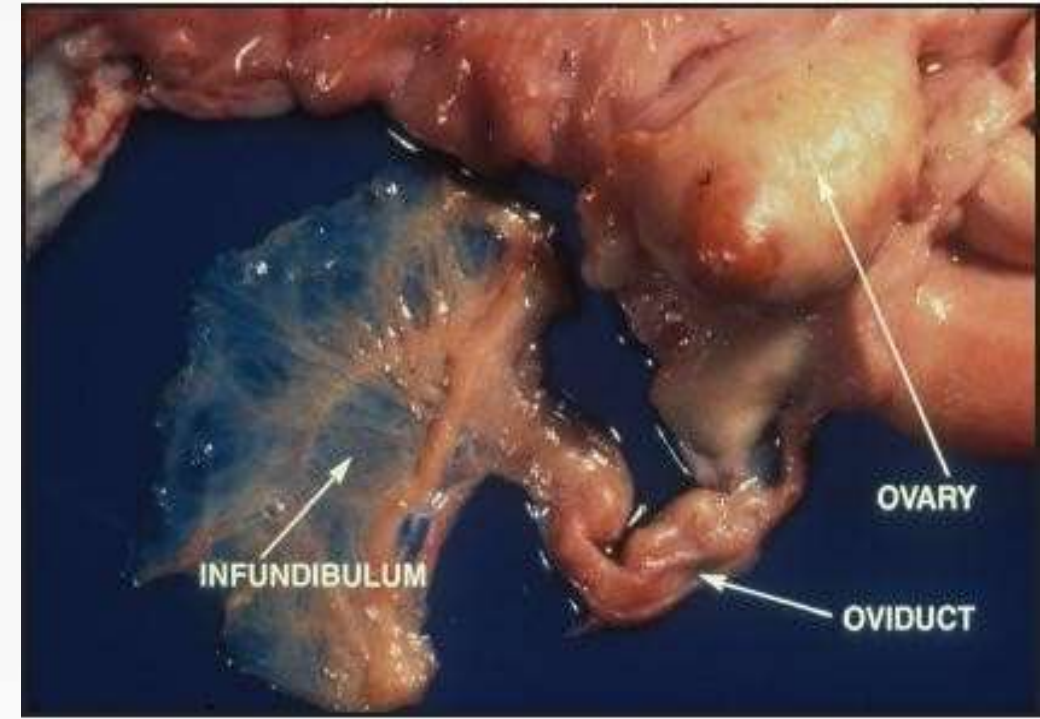
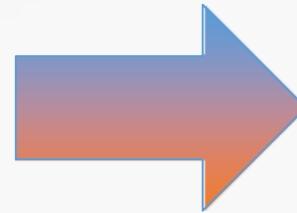
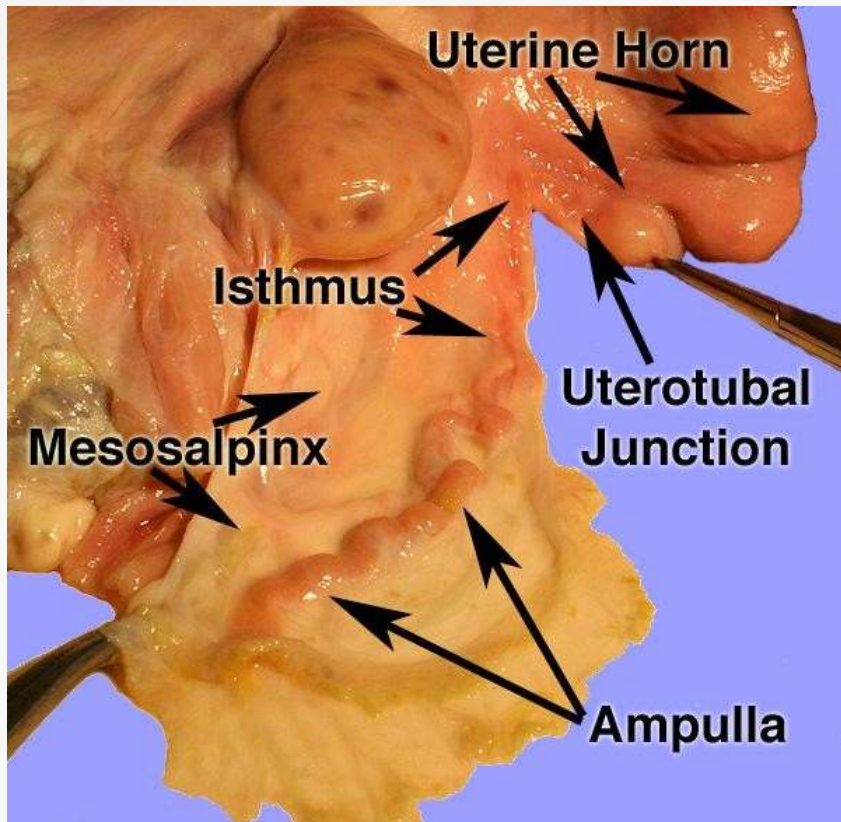
- OVA PICK UP OLEH FIMBRIE
- KAPASITASI SPERMA
- SELEKSI SPERMA
- FERTILISASI
- PEMBELAHAN EMBRIO

PENGGANTUNG

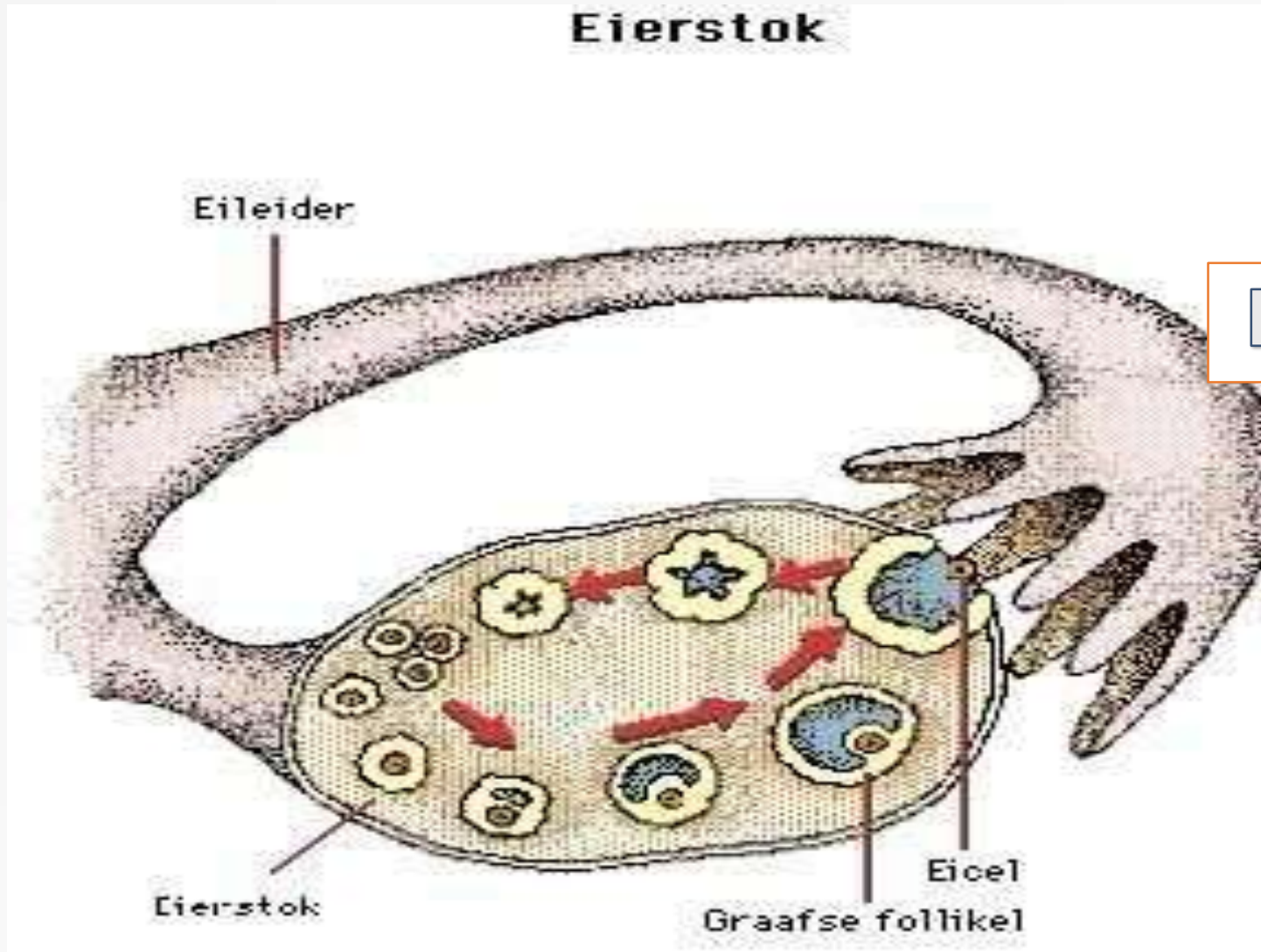
- MESOSALPHINK

Saluran yang panjang, kecil dan berkelok-kelok, penghubung antara ovarium dan uterus, tempat terjadinya fertilisasi dengan panjang : $\pm 20 - 35$ cm

GAMBAR ANATOMI TUBA FALOPII



SIFAT OVOTAXIS FIMBRAE



FIMBRAE

UTERUS

BAGIAN

- CORPUS UTERI
- CORNUA UTERI

FUNGSI

- MEMPERMUDAH TRANSPORT SPERMA KE TUBA FALOPII
- REGULASI CL
- MENGANDUNG CAIRAN SEBAGAI MEDIA HIDUP BLASTOSIS
- PEMBENTUKAN PLASENTA DAN PERKEMBANGAN FETUS
- INISIASI PARTUS

PENGGANTUNG

- MESOMETRIUM

UTERUS

Tipe Uterus

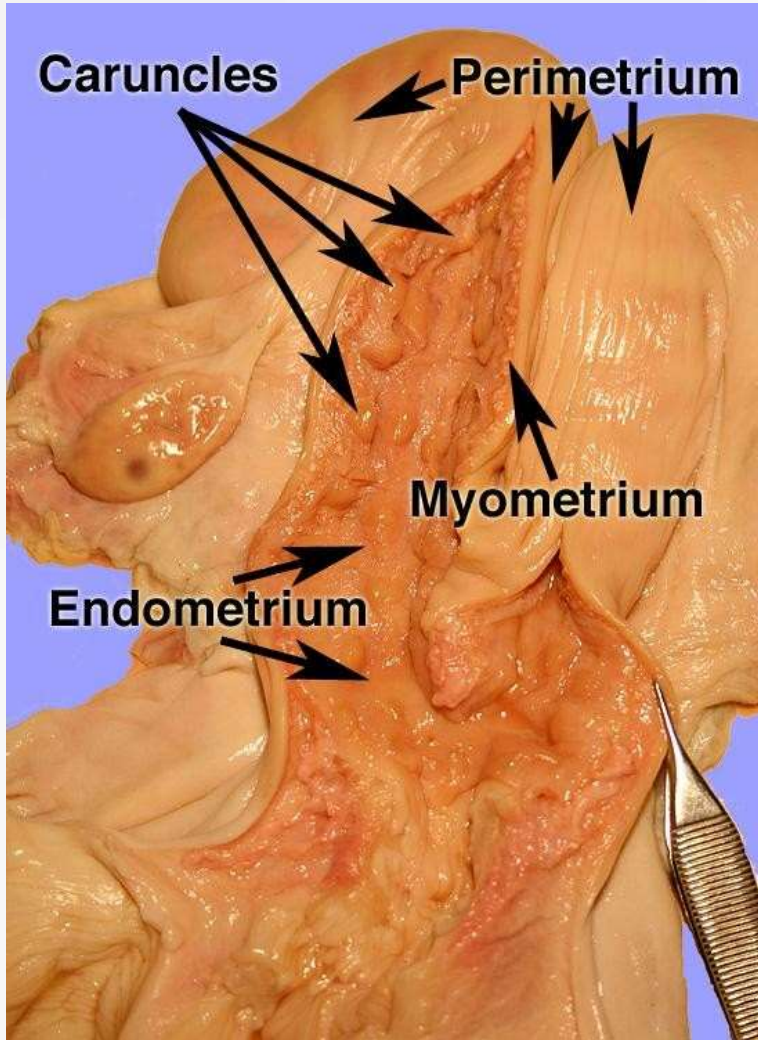
- DUPLEKS
- BIKORNUA
- BIPARTITUS
- SIMPLEKS

Gambaran Histologis

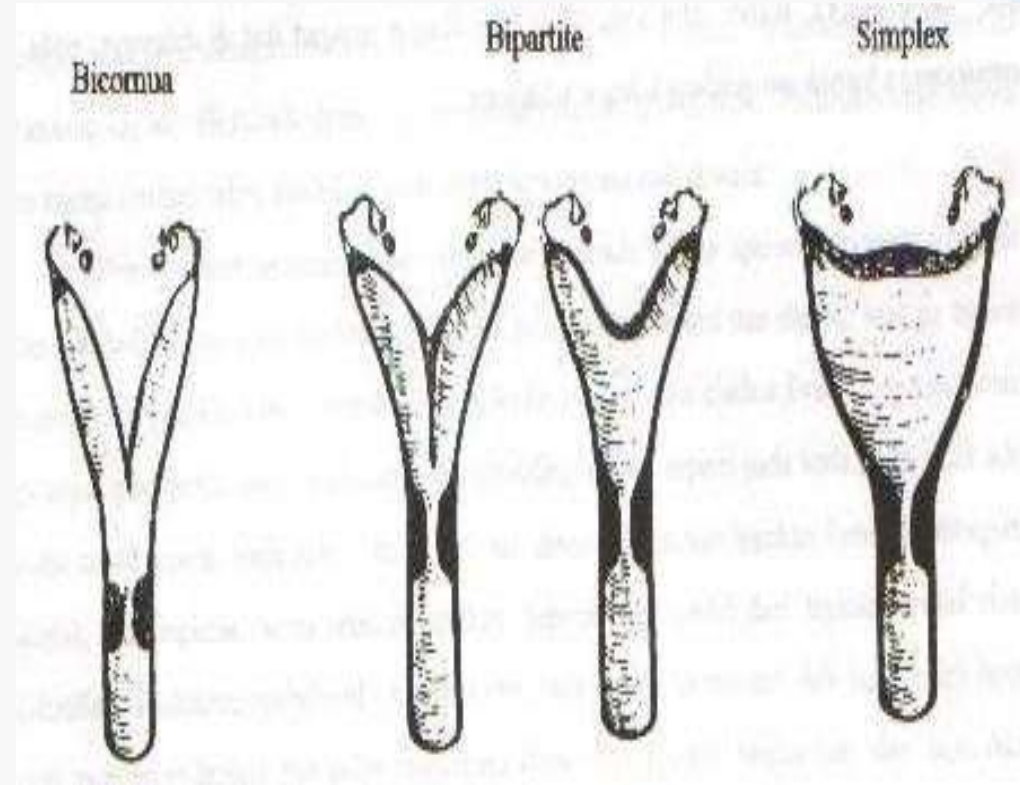
- ENDOMETRIUM
- MYOMETRIUM
- PERIMETRIUM

Interna Uterus Terdapat

- CARUNCULAE
- COTYLEDON



Uterus Sapi



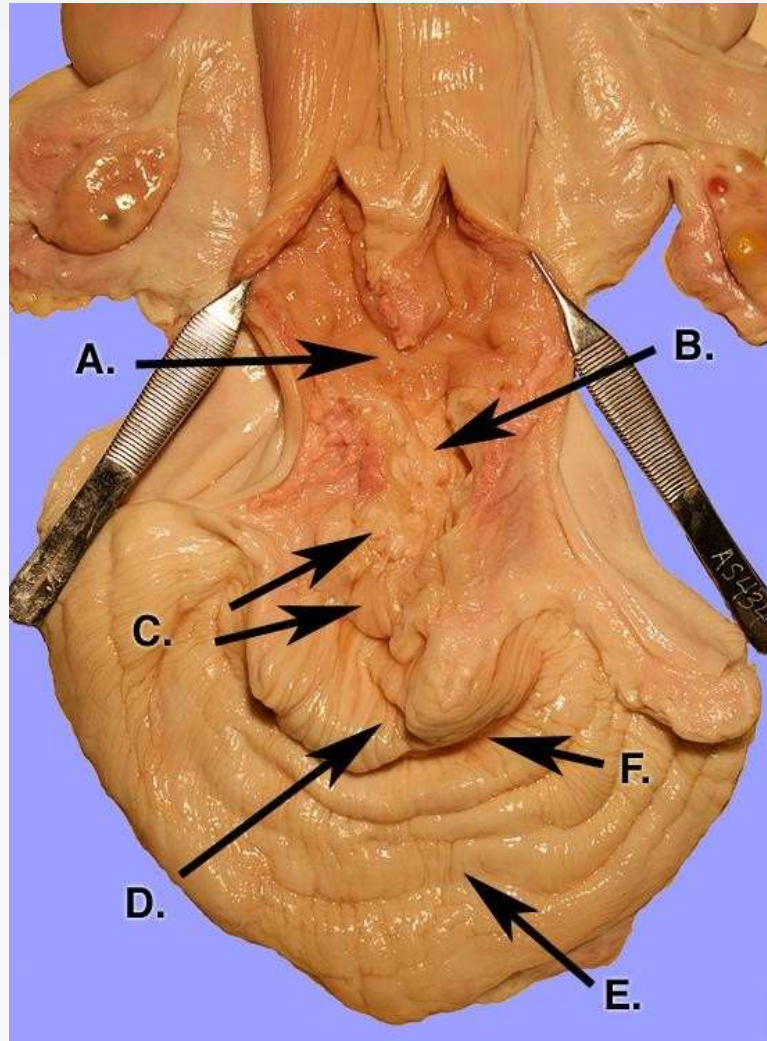
Tipe Uterus

SERVIX

FUNGSI SERVIX

1. Mencegah Benda Asing Masuk Ke Lumen Uterus (Servix Hanya Terbuka Saat Estrus dan Partus)
2. Fasilitasi Transport Sperma Melalui Servical Mukous ke Lumen Uteri
3. Reservoir Spermatozoa
4. Seleksi Sperma
5. Selama Kebuntingan Servix Menghasilkan Cairan Mukous yang Tebal yang Menyumbat Canalis Servicalis

ANATOMI SERVIX SAPI



Keterangan:

A. Uterin Body

B. Internal Servical Os

C. Cincin Servik (Servical folds or rings)

D. External Servical Os

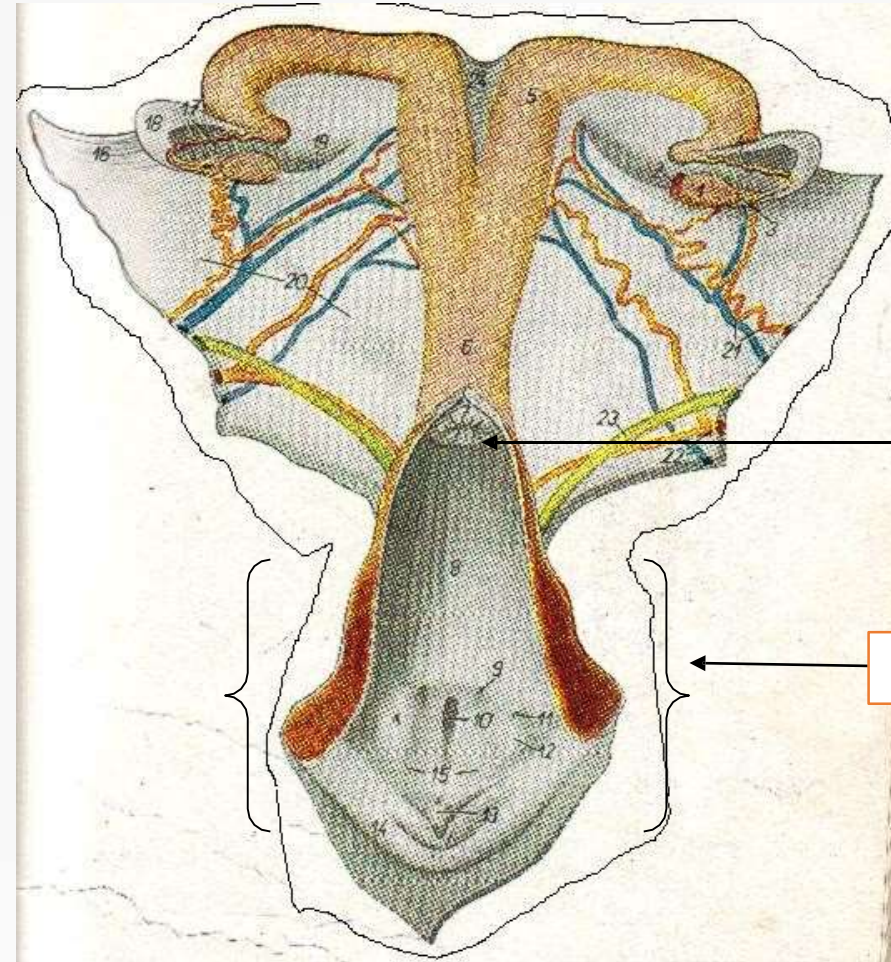
E. Cranial Vagina

F. Fornix Vagina

VAGINA

FUNGSI:

1. Sebagai Alat Kopulatori
2. Sebagai Jalan Partus



FORNIX

Vagina

ALAT KELAMIN LUAR

TERDIRI DARI

1. Vestibulum
2. Vulva, Terdiri atas:
 - Labia Mayor
 - Labia Minor
 - Comissura Dorsalis dan Ventralis
 - Clitoris : Cikal Bakal Penis Saat Masa Embrionik



TERIMAKASIH

