

AGGRESSION

social psychological explanations: social learning theory

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| <ul style="list-style-type: none">▶ aggression is learnt by observing & imitating others<ul style="list-style-type: none">◦ more likely imitated if we observe a role model<ul style="list-style-type: none">- people we identify with (age, gender etc)◦ once learned, we choose whether or not to show behaviour▶ learned directly through reinforcement<ul style="list-style-type: none">◦ reward & punishment | <ul style="list-style-type: none">▶ learned indirectly through vicarious reinforcement<ul style="list-style-type: none">◦ seeing others rewarded or punished◦ consequences taken not of by the observer to form mental representation<ul style="list-style-type: none">- whether behaviour is worth repeating◦ positive consequences = more likely repeated |
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NATURE/NURTURE

- ▶ argues aggression is **nurtured** behaviour
 - severity of aggression can be altered by changing **environment**
 - e.g. limiting aggressive behaviour shown positively on children's TV to reduce vicarious reinforcement
 - **reductionist**
 - discounts biological factors

BANDURA - bobo doll

- ▶ children divided into groups & matched according to existing aggression levels
 - ▶ placed in a room with an adult & various toys
 - ▶ saw adult either be aggressive or being non-aggressive to the doll
 - ▶ given opportunity to play with bobo doll when adult leaves
 - those who saw the aggressive adult hit the bobo doll far more
 - *supports SLT as children who observed aggressive role model, imitated the aggressive behaviour*
- + lab experiment
 - controlled EVs - matched pairs design
 - mundane realism
 - artificial setting & situation
 - low external validity
 - lab experiment & child sample

BANDURA & WALTERS - bobo doll films

- ▶ children shown a film of adult being aggressive to the bobo doll
 - ▶ 3 groups saw different endings to the film:
 - ▶ role model rewarded/punished/no consequences
 - ▶ given opportunity to play with bobo doll
 - children saw adult rewarded most aggressive
 - children saw adult punished least aggressive
 - ▶ *supports SLT as children more likely to show aggressive behaviour if saw role model rewarded*
- ▶ *evidence for mental representation & vicarious reinforcement - considers effect of punishment*
 - + lab experiment - controls EVs
 - + distinctive actions used by role models
 - unusual to occur naturally, ensures imitation
 - low ecological validity - unlikely situation
 - no follow up
 - doesn't show long term effect
 - play-fighting more logical explanation
 - doesn't support theory

- + overall, evidence strengthens the theory as results are consistent
 - suggests children & adults can behave aggressively via observing others
- however evidence is artificial
 - lab experiment & situation
 - more research needed outside of the lab to offer better external validity
- low temporal validity
 - 1960s

PRACTICAL APPLICATIONS

- parents need to be aware of time spent playing on aggressive games/watching aggressive TV
- limits transferring idea of aggressive behaviours on others is acceptable

social psychological explanations: deindividuation

<ul style="list-style-type: none"> ▶ <u>loss of personal identity & responsibility</u> <ul style="list-style-type: none"> ◦ due to being in a crowd, darkness, wearing uniform, altered state ◦ suggests blocking of self awareness, leading to loss of self control & aggression 	<ul style="list-style-type: none"> ▶ <u>Zimbardo</u> <ul style="list-style-type: none"> ◦ <u>deindividuation due to anonymity</u> <ul style="list-style-type: none"> - reduces fear of negative evaluations from others & feelings of guilt ◦ behaviour usually rational & conforms to social standards ◦ deindividuated behaviour based on primitive urges
<ul style="list-style-type: none"> ▶ <u>Prentice-Dunn & Rogers</u> <ul style="list-style-type: none"> ◦ deindividuation due to altered self awareness <ul style="list-style-type: none"> - <u>public self awareness</u> <ul style="list-style-type: none"> > sense of being visible to others > crowds = less visible = more anonymous = more likely to get away with aggression = aggression - <u>private self awareness</u> <ul style="list-style-type: none"> > sense of self/thoughts/feelings > crowds = attention focus outwards = unable to think for selves = impulsive/irrational behaviour = aggression 	

NATURE/NURTURE

- ▶ argues aggression is **nurtured** behaviour
 - severity of aggression can be altered by changing environment
 - e.g. preventing situations where deindividuation in violent situations could occur
 - **reductionist**
 - discounts biological factors

ZIMBARDO - hooded electric shocks

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| <ul style="list-style-type: none"> ▶ participants asked to deliver electric shocks to another woman as part of a 'learning experiment' ▶ 2 conditions: <ul style="list-style-type: none"> - bulky clothing & hoods which covered faces, never called by name, dimly lit room - regular clothes & large name tags, frequently called by name, brightly lit room ◦ <u>shocks delivered by hooded group 2x as severe</u> | <ul style="list-style-type: none"> ◦ <i>supports anonymity theory as when they placed in 1st condition they lost identity & responsibility, lost self awareness & displayed more aggression</i> > lab experiment + compared hooded & non hooded - low mundane realism > deceived + natural reaction - increases ecological validity - ethical issues with deception |
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WATSON - warriors

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| <ul style="list-style-type: none"> ▶ investigated 23 different war oriented cultures <ul style="list-style-type: none"> ◦ <u>warriors depersonalised themselves significantly more likely to kill or mutilate captured enemies</u> ◦ <i>supports theory as warriors who wore masks/face paint more likely to be aggressive to their enemies - depersonalised & lost sense of identity & responsibility</i> | <ul style="list-style-type: none"> + natural experiment <ul style="list-style-type: none"> • no demand characteristics • high ecological validity - experimenter bias <ul style="list-style-type: none"> • looking out for higher aggression - cultural norms? <ul style="list-style-type: none"> • tradition, not deindividuation |
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PRENTICE-DUNN - attention focus

- participants split into 2 conditions:
 - outward attention focus group
 - > instructed participants repeatedly to focus attention outward
 - > dimly lit rooms, loud rock music, verbal interaction encouraged & video games
 - > induced deindividuation
 - internal attention focus group
 - > told not to interact, performed individual tasks & played non-arousing games
- higher levels of aggression in outward attention focus group
- *supports self awareness theory as those placed in outward attention group (reduced private self awareness) & encouraged to feel anonymous (reduced public self awareness) more aggressive*
- no quantitative measure of aggression level
 - cant be completely compared
- > lab experiment
- + controls for EVs
- demand characteristics/low external validity

+ overall, evidence strengthens theory as results are consistent

- suggests deindividuation can cause aggression
- however lab-based evidence hard to generalise
 - limits support for theory
- ethical issues
 - need to change psychological state of participants to study by experimental manipulation
 - may engage in antisocial behaviour they would not normally be involved in

PRACTICAL APPLICATIONS

- offers psychological reason as to why aggression may occur in groups, such as the London riots
- could help police to have a better understanding of targeting & dealing with potential explosive situations

social psychological explanations: institutional aggression - the power of the situation & dehumanising labels

▶ **Zimbardo**

- situation causes aggression, whilst dehumanising labels make someone more prone to being a victim
 - **the power of the situation**
 - > situation influences whether people are aggressive to others
 - > people who are usually mild mannered may find themselves being aggressive in certain situations
 - > institutional factors (e.g. lack of external constraints) increase willingness to cause harm
 - **dehumanising labels**
 - > individuals more likely to be aggressive to others when they label/dehumanise them
 - > dehumanised/derogatory label = victimised = target of aggression
 - > numbered in prison

DETERMINISM

- ▶ presumes aggression caused wholly by the **situation** - does not allow for **free will** of individual
- ▶ individual is a victim of environmental circumstances
 - may lessen individual's sense of **responsibility** for their own behaviour
 - could lead to an increase in aggression because **blame is removed**

ZIMBARDO - Stanford prison experiment

- ▶ volunteer sample of 22 male students
- ▶ half prisoners & half guards
 - all judged to be of good mental health/no antisocial behaviour before study began
- ▶ prisoners arrested & installed in mock prison, minimal guidance on how to behave
 - wore smocks & were referred to by numbers
 - study stopped after 6 days due to the extreme behaviours that occurred
 - guards
 - > verbally aggressive towards the prisoners
 - > began controlling their behaviour (e.g. sleep/toilet) & subjecting to arbitrary commands
 - prisoners
 - > rejected with initial rebellion, then accepted role - became extremely passive
 - guards surprised by how they acted - attributed behaviour to demands of situation & roles given
 - *strongly supports theory as no constraints put on the guards behaviour who had no history of violence/antisocial behaviour - results were due to situation & not disposition*
 - *prisoners also dehumanised, testing theory of labelling causing victimisation*
- + lab study - cause & effect
 - no history of aggression, so situation only cause
- > ethical issues
 - psychological harm due to intense stress
- + experimental realism
 - participants felt it was real, so results have high validity

BANDURA - nice/animal students

- students told to work with another school on a group task
 - either overheard assistant refer to the students from other school as 'nice' or 'animals'
 - later asked to deliver electric shocks to the students
 - higher shocks delivered to those in the 'animal' condition
 - *supports theory, especially dehumanising labels, as group labeled as 'animals' (dehumanised) more targeted by aggressive behaviour (electric shocks)*
- + lab study
 - + compared conditions
 - isolated situation/labels as cause for aggression
 - + overheard assistant
 - increases validity as students not biased by experiment but by situation
 - experimental realism

- + research lab based & carefully controlled
 - increased reliability & validity
- serious ethical issues
 - however, created experimental realism
- + however, research adequately supports the theory

PRACTICAL APPLICATIONS

- useful theory as prisons can change environment to limit aggression caused by situation
 - e.g. regulating temperature, natural light & sense of space
- prisons can predict aggression
 - e.g. inmate has a difficult visit or interview with the police

social psychological explanations: institutional aggression - importation model

- ▶ institutional aggression caused by the **aggressive nature** of the people there
- ▶ aggression **imported** into the institution, from the **character & personality** of the people
- ▶ aggression not a product of the institution
- ▶ inmates have a **predisposition** for violence

SOCIALLY SENSITIVE

- ▶ has many **negative implications** for prisoners & their families
 - labelling & imposing blame
 - could lead to a hands-off approach to the changing of prisons to reduce violence
 - it is the prisoners not the conditions they live in to blame
 - difficult for prisoners to get work outside of prison
 - people may label them as aggressive

POOLE & REGOLI

pre-institutional violence

- ▶ researched 4 different types of juvenile institutions
 - pre-institutional violence best predictor for inmate aggression
 - regardless of the specific features of the institution
 - *supports theory as aggressive nature was the cause, not institution itself*
 - *the aggression imported into institution*

IRWIN & CRESSEY

culture & characteristics

- ▶ inmate's behaviour due to cultural/personal characteristics brought in by prisoners
 - young & impoverished inmate backgrounds more likely to be aggressive
 - different ethnic backgrounds display varying degrees of aggression
 - may be due to different socio-economic backgrounds
 - *study supports theory as prisoners showed importation of aggression into institution (dependant on characteristics)*
 - *however not clear why inmates aggressive in the first place/what makes some more aggressive*

KELLER & WANG

maximum security

- ▶ prison violence occurs in prisons which hold the most troublesome inmates
 - maximum security inmates had higher levels of assault on staff by inmates
 - compared to those in lower risk facilities
 - *study supports theory as prisoners in high security more aggressive*
 - *previously more troublesome - characteristics cause aggression*
 - *however could be argued as situational cause*
 - *high security institutions have more intense environmental triggers for aggression*

- > natural experiments
- + high ecological validity
- + low demand characteristics

- low control
 - can't establish cause/effect
 - other EVs involved

- + overall theory has reliability as research consistently supportive
- however, low control of research (not lab based) so could be other factors involved
- offers a limited view of institutional aggression
- does not suggest why aggressive in the first place

DETERMINIST

- suggests that we will import our aggressive values into institutions & have no control over showing aggression
 - fails to consider the role of free
 - we have a choice in how we behave
 - fails to take into consideration all individuals who will not act aggressively as a result of being in prison
 - good behaviour = earlier release
- lack of consideration of individual differences
 - theory fails to provide a good explanation into institutional aggression of all individuals
 - weakens external reliability

biological explanations: genetics - general link between genes & aggression

▶ aggression is inherited

- aggressive people inherit genes that **predispose** them to being aggressive
- ▶ the **closer the relationship** to the aggressive person, the stronger the inherited tendency
 - **more forbears** (blood relatives before) aggressive = the more likely inherited genes

DETERMINIST

- ▶ link between genetics & aggression is biologically determined
 - inherited aggressive genes = predisposition = aggressive behaviour **unconscious choice**
- ▶ issues with **responsibility & blame**
 - any wrong or inappropriate behaviour can not be deemed as their fault
 - victim of their inheritance

McGUFFIN & GOTTESMAN - concordance

- studied concordance rates for aggressive & antisocial behaviour in MZ/DZ twins
 - 87% concordance rate MZ
 - 72% concordance rate DZ
 - *supports theory as higher level of aggression in MZ, who share 100% genes compared to 50% genes*
 - *however there is not 100% concordance rate, so must be other factors involved*
- > natural experiment
 - + no demand characteristics, high ecological validity
 - can't assume cause & effect
 - EVs - MZ twins treated more similarly

HUTCHINGS & MEDNICK - adoptions

- reviewed over 14,000 adoptions in denmark
 - positive correlation between convictions for violent offences amongst biological fathers & adopted sons
 - *supports increased aggression in fathers increased aggression in sons*
 - *shows genetic/biological cause as aggressive upbringing/environmental factors from biological fathers controlled for*
 - *however, aggression could have other causes*
 - *process of adoption itself stressful*
- > natural experiment
 - + no demand characteristics, high ecological validity
 - correlation - can't assume cause & effect
 - EVs
 - MZ twins treated more similarly
 - stress of adoption causes aggression

- + overall, research consistency supports theory
- however, possible environmental influences weaken reliability of theory

REDUCTIONIST

- reduces complex behaviour such as aggression down to just genes
- not certain behaviour really can be caused 100% by a gene - environmental factors involved
- genes may give predisposition but does not always cause behaviour
 - interaction of biological & environmental influences - stress diathesis approach

biological explanations: genetics - role of a specific gene defect

- ▶ **warrior gene** linked to brain chemistry & increased aggression
 - genetic mutation
 - causes a **deficiency** in monoamine oxidase A (**MAO-A**)
 - **enzyme** that causes the breakdown of excess monoamine neurotransmitters in the brain
 - **noradrenaline & dopamine**
 - found on the **X chromosome**
 - why gene is more prevalent in men
 - women protected from the faulty gene by their other X chromosome
 - causes **imbalance** in amount of some **neurotransmitters** in the brain
 - not enough MAO-A released to break them down
 - imbalance predisposes the individual to become aggressive when under stress (e.g. angry, fearful)

DETERMINIST

- ▶ argues carriers of this gene will be aggressive & when they are it is not their **responsibility/fault**
- ▶ **not sole cause** of aggression
 - people with the gene don't always display this aggression (buddhist monks)
 - aggression also displayed by those not carrying the gene
 - suggests **free will** over behaviour

DUTCH FAMILY - warrior gene

- ▶ 4 generations of males in a dutch family - inherited MAO-A gene defect
 - showed aggressive & violent behaviour (e.g. arson & attempted rape)
 - seemed unable to regulate impulsive aggression
 - particularly marked when provoked

BRUNNER - Dutch family test

- ▶ tested urine in the men with gene defect
 - imbalanced levels of chemicals that result from neurotransmitters
 - indicates MAO-A levels deficient as they did not release enough to break down neurotransmitters

- ▶ *supports genetic explanation as the men with the defect displayed very aggressive/violent behaviour (arson & attempted rape)*
- ▶ *urine indicated imbalanced levels of the neurotransmitters, showing MAO-A deficiency*
- > natural experiment
- + high ecological validity
 - can't control EVs
 - violence may be due to environment (e.g. upbringing)
 - case study
 - can't replicate - low validity
 - can't generalise - low external/population validity

VISHNEVETSKAYA - Tg8 mice

- ▶ studied Tg8 mice that had a defected MAO-A gene
- ▶ compared to a control group of mice who had normal gene
 - Tg8 mice showed increased aggression towards intruder mice
 - increased territorial, predatory & isolation induced aggression
 - however did not show increase in all types of aggression
 - e.g. aggression to anaesthetised/juvenile/mice that weren't threatening

- ▶ *lends partial support to theory as the mice who had a defect seemed to exhibit certain types of aggression (e.g. territorial, predatory & isolation) but not to mice that offered no threat to them*
- ▶ *shows aggression is interaction of biological & environmental factors - aggression only triggered by certain conditions*
- + lab study
 - scientific validity - objective measures/equipment
 - high controlled - shows cause & effect
- animal study
 - can't generalise to humans
 - ethical issues

- + overall research is consistently supportive about warrior gene's role in provoked aggression
- however, issues in the research prevent results being completely supportive or generalisable
- limitations to the warrior gene explanation
 - not all individuals with the gene will be aggressive
 - did not cause aggression in certain situations - suggests degree of free will/environmental factors
 - no direct cause & effect link, only an association

SOCIALLY SENSITIVE

- ▶ if believed, there is future potential to possibly **eliminate gene** from society by preventing women carrying this gene from having children in order to reduce aggression/violence
- ▶ socially sensitive to these women involved & to men who carry the gene
- ▶ has an impact on the usefulness of this explanation of aggression

biological explanations: neural mechanisms in aggression

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| <ul style="list-style-type: none">▸ refers to role of neurotransmitters<ul style="list-style-type: none">◦ low levels of serotonin in the brain linked with impulsive aggression◦ normal levels of serotonin have a calm, inhibitory effect◦ low levels mean = inhibitory effect gone<ul style="list-style-type: none">- people will be less able to control impulsive & aggressive tendencies▸ serotonin works in the frontal areas of the brain to inhibit the firing of the amygdala | <ul style="list-style-type: none">▸ the amygdala controls fear, anger & emotional responses<ul style="list-style-type: none">◦ less serotonin in prefrontal cortex = less inhibition of amygdala = not under control▸ amygdala stimulated by potential threats = becomes more active = drives person to act on impulse▸ individuals have different levels of serotonin<ul style="list-style-type: none">◦ varies day to day/hour to hour◦ some have low serotonin all the time<ul style="list-style-type: none">- theory states these individuals predisposed to aggression |
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REDUCTIONIST

- attempts to explain aggression through levels of serotonin alone
 - can be positive - considering smaller parts means they can be **scientifically tested**
- however, fails to account for **other reasons** for aggressive behaviour
 - not all aggression due to low serotonin
 - can't explain why aggressive in the first place
 - e.g. threatened, upbringing, self defence etc
 - does not address the bigger issue
 - issues with responsibility & blame

CROCKETT - tryptophan drink

- repeated measures experiment on 20 participants
 - participants fasted & given a protein drink in morning before study
 - one drink contained tryptophan (body needs to make serotonin)
 - other drink did not contain it
 - participants played the ultimatum game - player poses way to split sum of money with partner
 - drink that not containing tryptophan (serotonin low) increased aggression on unfair offers
- *supports theory as lower levels of serotonin (due to the absence of tryptophan) more likely to act aggressive*
 - + lab study
 - high control - replicable, standardised procedure
 - repeated measures - removes individual differences
 - small sample
 - low external validity, can't generalise

DAVIDSON - violent criminals

- violent criminals had markedly lower levels of serotonin to non-violent criminals
 - *supports theory as low levels of serotonin were linked to criminals with higher rates of violent acts*
- + natural experiment
 - high ecological validity
 - specific to criminals
 - low external validity, can't generalise

- + overall, research shows consistent support for theory
- however, low external validity weakens support - could be other factors involved
 - EVs such as environment not taken into account
 - low serotonin could be trigger not cause

PRACTICAL APPLICATIONS

- › simplifying aggression to biochemicals means it can be **treated biologically**
- › use of medication which can re-balance chemicals & therefore aggressive impulses
 - shows that the theory is quite convincing
- › **SSRIs** beneficial in controlling an individual's impulsive urges
 - prevent re-uptake of serotonin & helps levels of aggression in every day life

biological explanations: hormonal mechanisms in aggression

<ul style="list-style-type: none"> ▶ testosterone is a hormone <ul style="list-style-type: none"> ◦ men 8x higher level of testosterone as women 		
<ul style="list-style-type: none"> ▶ high testosterone <ul style="list-style-type: none"> ◦ early theories suggest high levels causes aggression ◦ more theories link high testosterone to need for dominance <ul style="list-style-type: none"> - e.g. businessmen/athletes higher levels testosterone but not violent, just want to dominate 	<ul style="list-style-type: none"> ▶ high testosterone + low serotonin <ul style="list-style-type: none"> ◦ high testosterone makes individual seek dominance ◦ if frustrated due to dominance: <ul style="list-style-type: none"> - low levels of serotonin in the prefrontal cortex - impulsive behaviour caused by amygdala not under control - results in aggression 	<ul style="list-style-type: none"> ▶ mismatch effect <ul style="list-style-type: none"> ◦ also reflects view that testosterone links to dominance <ul style="list-style-type: none"> - higher testosterone = higher status/dominance you seek ◦ testosterone important when there is a mismatch between the level of testosterone & status <ul style="list-style-type: none"> - mismatch in levels (e.g. high status, low testosterone) results in aggression

SOCIALLY SENSITIVE

- ▶ **gender biased**
 - women have naturally lower testosterone
 - unfair to presume women in high status are going to be aggressive
- ▶ **employers** may be less willing to employ women for high positions
 - theory creates stigma that women will be aggressive in high status jobs

KREUZ & ROSE - prisoner testosterone

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| <ul style="list-style-type: none"> ▶ studied testosterone levels in a group of 21 young adult male prisoners <ul style="list-style-type: none"> ◦ <u>did not relate to whether they fought with others in prison</u> ◦ <u>did relate to nature of crimes committed</u> <ul style="list-style-type: none"> - <u>prisoners of violent crimes (e.g. assault & armed robbery) statistically higher levels of testosterone</u> than non-violent crime prisoners | <ul style="list-style-type: none"> ▶ <i>supports high testosterone theory as the prisoners who had high levels of testosterone more violent</i> ▶ <i>however, does not all aggression as didn't relate to whether they fought in prison</i> <ul style="list-style-type: none"> ◦ <i>must be other (environmental) triggers</i> - very small, androcentric limited sample <ul style="list-style-type: none"> ◦ can't generalise, low population/external validity |
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JOSEPHS ETAL - job status change

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| <ul style="list-style-type: none"> ◦ <u>men & women with high testosterone levels reacted negatively after loss of high status</u> <ul style="list-style-type: none"> - they became stressed, confused, anxious ◦ <u>low testosterone levels & put into high status showed the same pattern of upset</u> ▶ <i>supports mismatch theory as mismatched status & testosterone levels showed pattern of upset behaviour which could lead to aggression</i> | <ul style="list-style-type: none"> + higher population validity <ul style="list-style-type: none"> ◦ easier to generalise - ethical issues <ul style="list-style-type: none"> ◦ participants showed high degree of stress & anxiety ◦ acted aggressive when abnormal for them ◦ decreased emotional wellbeing |
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- + overall partial support for theories as link between testosterone & aggression is shown
- however, research support isn't 100% reliable due to generalisation issues

REDUCTIONIST

- argues aggression purely neurochemical - **discounts environment**
- not clear whether high testosterone **cause or effect** of aggression
- likely that high testosterone more sensitive to reacting to environmental stress
 - interaction of biology & environment
 - **stress-diathesis** approach

evolutionary explanations: jealousy & infidelity

- ▶ aggression as an **innate response** to process of **natural selection**
 - male ancestors aggressive:
 - to compete and **eliminate competition** to ensure **reproductive success**
 - to **protect offspring** and partner
 - to **attract females** as they like strong and powerful men to ensure survival
- ▶ role of jealousy and infidelity

▶ **infidelity**

- emotional infidelity = emotional involvement with another person - women fear this
 - they do not want partner to invest resources in another woman
 - restricts chances of survival for her offspring
- sexual infidelity = sexual involvement with another person - men fear this
 - waste of resources, genes not passed on
 - partner carrying another man's baby means investing resources onto offspring not his

▶ **sexual jealousy**

- state of fear caused by threat to someone's status as an exclusive sexual partner
- adaptive response leading to a number of mate retentive behaviours
 - retaining a mate is important to males
 - without faithful mate to bear/raise his children, chance genes passed on reduced

DETERMINIST

- ▶ fails to consider the role of free & individual choices over our behaviours
- ▶ incorrectly assumes all individuals who encounter jealousy/infidelity will become aggressive
 - not accurate explanation for aggressive behaviour in all individuals
 - lacks external validity

BUSS - cross cultural jealousy/infidelity

- ▶ looked at 37 cultures
 - males consistently valued chastity & faithfulness
 - women valued faithfulness more
 - males found sexual infidelity more distressing
 - women found emotional infidelity more distressing
- ▶ *supports theory as*
- ▶ *men value chastity to ensure that the offspring was theirs & not someone else's*
 - *couldn't be sure of this if mate sleeping with others*
- *women value emotional faithfulness as they want their mate to have an emotional attachment to them*
 - > *make sure they stay & provide care for them & their offspring*
- + high external validity, generalisable
 - large, varied sample across 37 cultures
- + cross cultural similarities
 - suggests innate response rather than learned

MILLER - domestic abuse victims

- ▶ studied 44 female victims of domestic violence from their male partner
 - 55% stated jealousy as the reason for aggression
 - 25% stated own fidelity as the reason for aggression
 - some reported husbands disliked them going out with friends
 - some didn't let wives go shopping without them
- ▶ *supports theory as 80% of the women stated jealousy or infidelity as the reason for aggression*
- ▶ *males showed mate retentive behaviour proving there was sexual jealousy involved*
- ▶ *however, not 100% of aggression due to jealousy or infidelity, showing other factors must be involved*
- small & oestrocentric sample
 - low external/population validity - can't generalise
- investigator bias
 - looking out for jealousy/infidelity as cause
 - did not look at other factors e.g. environment

- + overall evidence supports theory that aggression is caused by jealousy/infidelity to good extent
- however, research does not look at EVs
 - more likely to be interaction of factors (stress diathesis approach)
- not all aggression caused by jealousy/infidelity
- hard to test evolutionary theory empirically
 - can't isolate nature/nurture factors
 - can't compare to aggression 1000s of years ago

REDUCTIONIST

- ▶ suggests aggressive behaviour only result of disposed innate reactions to natural selection
 - ignores impact of biological factors on aggressive behaviour (e.g. genes)
 - likely combination of both situational factors and dispositional factors
- ▶ lack of consideration to this, theory oversimplifies complex human behaviour
 - internal validity of the theory is weakened

PRACTICAL APPLICATIONS

- ▶ explanation can help the women who might be in danger of domestic abuse
- ▶ spot mate retention strategies so they can act before violence or aggression might occur

evolutionary explanations: group display - war

- ▶ war is the formation of groups to attack others within the same species
- ▶ joining group & taking part in war **improves survival** chance compared to acting alone
 - groups more powerful & afford more protection
 - war is adaptive
- ▶ success in war establishes:
 - **dominance** in status
 - better access to **resources**
 - elimination of reproductive rivals
 - ensures genes being passed on/**reproductive success**
- ▶ **mass rape** used as a weapon of war & can be accounted for by evolutionary approach
 - threat of rape causes people to flee their territory
 - rape may impregnate victim, continuing rapists genes
- ▶ **winners most aggressive**
 - aggressive genes passed on - leads to a species with disposition for aggression

EVOLUTIONARY APPROACH

- ▶ does not explain some aspects of war
 - **torture**
 - according to theory, important to kill competition to gain dominance, resources & women
 - torture has no evolutionary advantage
 - **mass rape**
 - not strong enough evidence for theory
 - doesn't explain why some women are killed afterwards - no offspring
 - **female soldiers**
 - doesn't explain how there are more and more females joining the army
 - according to approach, no evolutionary advantage for females

CHAGNON - Yanomamo tribe

- ▶ studied Yanomamo people of the Amazon
 - constant fighting concerning access to women & raising status of one group over the other
 - successful warriors had more wives & children

- ▶ *supports theory as successful warriors showed aggression through group display to gain more wives/children/status*
- ▶ *makes evolutionary sense as increased status ensured more survival & reproductive success*

BOSNIAN WAR - systematic rape

- ▶ 50,000 women & girls raped by Serbians
 - to terrorise women into fleeing
 - to ensure children had Serbian blood

- ▶ *supports theory as mass rape carried out to gain resources & reproductive success*

EVOLUTION OF WAR

- occurs in many modern & pre-industrialised societies
- occurs in intelligent social species (e.g. chimpanzees & dolphins)

- *supports theory as shows group displays:*
 - *have evolutionary advantage to a species as they still happen today*
 - *occur over many species, evolving over time*

+ natural experiments

- high ecological validity

- observational study

- possible bias - researchers looking for behaviour
- misinterpretation of cultural norms
- low control over EVs

- not objective evidence

- no quantitative measures or experimental method
- reduces validity of theory as no scientific support

+ overall, studies do support theory to an extent

- however, lack of validity & possible researcher bias weakens theory

SOCIALLY SENSITIVE

- seems to **excuse violence** such as mass rape
 - states rape is just an evolutionary advantage & innate response to war
 - removes **responsibility & blame** from rapists
- ignores idea of **free will**
 - majority of humans do not want to take part in either rape or war

evolutionary explanations: group display - sport events

- ▶ in modern society, group display in terms of **war replaced by sporting events**
 - sport is **ritualised form** of aggression
 - all **benefits** of aggression available to competitors, but **reduced risk** of harm/death
- ▶ group display present in form of game itself
 - being part of a team or supporters
- ▶ **winning** team seen as holding **high status** & make members more **desirable as mates**
 - **athleticism & strength** required
 - competitor is advertising skill as potential provider, similar to hunting
 - victory also brings high status to supporters
- ▶ argues **hooliganism** is human equivalent to **ceremonial conflict** that occurs in animals
 - hooligans exclusively males
 - involved in trials of strength over territory
 - restrained by desire to minimise harm & death
 - **power & status** gained with **survival** intact

EVOLUTIONARY APPROACH

- ▶ cause of group display in sport due to evolutionary approach questionable
 - impossible to test empirically - can't isolate innate responses from environment
 - not convincing - being in a winning group of supporters doesn't improve reproductive success

CIALDINI - winning/losing pronouns

- ▶ studied supporters of university football team after match
 - winning team supporters = "we won" & wore clothes identifying with team
 - losing team supporters = "they lost"
- ▶ *study supports theory as winning team supporters associated with winning team to gain status & power*

MARSH - football violence

- ▶ observed football fans
 - appear very violent, but don't become physical
- ▶ *supports theory as shows group display is adaptive form of aggression - gain of power/status, but no physical danger*

+ high external validity

- natural experiments/observational studies
- ecological validity
- easier to generalise due to natural behaviour

- natural experiments/observation

- can't control EVs
 - may be other factors involved
- non experimental
 - can't prove precise cause of group display

- + overall, theory supported to an extent due to high external reliability
- however, low validity as a test of evolutionary explanations for group display
 - non-experimental
 - can't determine cause/effect

SOCIAL LEARNING THEORY

- may be another explanation of group display in sport
 - group display learnt from role models
 - encouraged through vicarious reinforcement
 - supporting winning team = higher status = positive reward = repeated
- therefore evolutionary theory not completely convincing as sole explanation