



**Repair manual for telescopic loaders T 4512**



WDF01426

Repair Manual

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**Service address** In the case of questions, contact:  
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www.weidemann.de

You can also obtain the operating manual for the loader here.

**Spare parts** Spare parts lists can be found on our website at: <http://service.weidemann.de>

### **Before you read on ...**

**Operating manual** As well as the present repair manual, the operating manual of the loader is required to perform all work completely.

The repair manual consists of six parts:

1. Safety
2. Technical data, test equipment and special tools
3. Inspection, maintenance work and troubleshooting
4. Replacement and repair procedures
5. Circuit diagrams and technical descriptions
6. Documents from suppliers (must be supplemented on-site)

**Structure** Each part is organised according to the structure of the loader in

1. Complete vehicle
2. Engine
3. Hydraulic system
4. Drive and axles
5. Brake system (mechanical part)
6. Frame and telescopic arm
7. Driver platform / cab
8. Electrical system
9. Attachments

**Navigation** A table of contents is available in each part of the manual for finding individual sections.

The complete table of contents follows on the next pages after the list of abbreviations and units.

The complete index is included immediately before the "Safety" section.

The index of the respective part of the manual is included at its end.

**Validity** The repair manual is applicable for type T4512 telescopic loaders with the following article number:

- 1000235501

**Special equipment** The repair manual also describes work for special equipment which is not present for every loader.

### **Abbreviations and units**

A	Ampere
A	High pressure connection on the displacement pump
Ah	Amperes per hour
B	High pressure connection on the displacement pump
bar	Unit of pressure
BK	black
BL	blue
BN	brown
cm	centimetre
cm <sup>3</sup>	cubic centimetre
F3	fuse No. 3
G	Supply pressure at the displacement pump <b>or</b> Test pressure at displacement engine
GE	yellow
GN	green
GR	grey
h	hour
HB	light blue
KL30	Terminal designation
km	kilometre
kW	Kilowatt
l	litre
M <sub>A</sub>	Test pressure at the displacement pump
max.	maximum, highest
M <sub>B</sub>	Test pressure at the displacement pump
min	Minute
min.	minimum, at least
M <sub>1</sub>	Test pressure at displacement engine
MV	Solenoid valve
Nm	Newton metre
AR	As required
OR	orange
P	Pin, pin contact
RS	pink
RT	red
S	Socket, female contact
s	Second
SKA	Standard equipment, SKA machines
SP1	Welding point No. 1 in the machine wiring harness
SP1M	Welding point No. 1 in the engine wiring harness
SW	black
TR	transparent



V	volt
VI	violet
WS	white
X	Connector
X <sub>1</sub>	Control pressure at the displacement pump
X <sub>2</sub>	Control pressure at the displacement pump
rpm	Speed unit (revolutions per minute)
%	percent
Ø [mm <sup>2</sup> ]	wire cross section [in square millimetres]





**Repair manual for telescopic loaders T 4512, CC35 and CC40**  
**Part 1**  
**Safety**

Repair Manual

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**T 4512**



This part of the repair manual contains special safety instructions for the individual assemblies of the loader.

**Warnings**

Warnings are marked with a symbol and differ in the type and severity of the described hazard. The different types are shown below.

**▶ DANGER**

**Identification of a hazard which results in death or severe, irreversible injuries if it is not averted.**

Follow the instructions to avert the hazard.

**▶ WARNING**

**Identification of a hazard which can result in death or severe, irreversible injuries if it is not averted.**

Follow the instructions to avert the hazard.

**▶ CAUTION**

**Identification of a hazard which can result in minor, reversible injuries.**

Follow the instructions to avert the hazard.



▷ Identification of possible damage of the loader or other property.

**Notices**

You are also made aware of important information by notices:



▷ Identification of any special information which is required for effective and efficient working.



▷ Identification of any environmental information.



---

Do not start work until after you have read and understood all safety regulations.

**Sequence** The sequence of the described work is mandatory. Comply with the specified sequence to avoid hazards.



## Safety regulations for repair work (complete vehicle)



- ▷ In addition to the safety regulations mentioned here, also observe all safety instructions of the operating manual.

- |   |  |
|---|--|
| <b>Repair personnel</b>                             | <ul style="list-style-type: none"><li>● The repair personnel must have technical expertise and experience in the repair of this or comparable loaders.</li><li>● If the technical knowledge is lacking, careful introduction by experienced repair personnel, e.g. by the company Service department of the manufacturer, must be carried out.</li><li>● Only let personnel undergoing training, instruction or in the context of general training work on or with the machine while under constant supervision by an experienced person.</li></ul>  |
| <b>Equipment and occupational health and safety</b> | <ul style="list-style-type: none"><li>● Suitable workshop equipment is absolutely essential for carrying out servicing and repair actions.</li><li>● For installation above head height, safe climbing aids and working platforms must be used for this. Do not use machine parts as climbing aids. Maintain all handles, steps, railings, landings, platforms and ladders free of dirt, snow and ice.</li><li>● In the case of special hazards such as toxic gases, corrosive vapours, poisonous (toxicologically loaded) surroundings of the machine etc., wear the appropriate personal protective equipment (filter for breathing, protective clothing).</li></ul>   |
| <b>Environmental protection</b>                     | <ul style="list-style-type: none"><li>● Ensure safe and environmentally friendly disposal of operating and consumable materials as well as replaced parts!</li></ul>   |
| <b>General safety</b>                               | <ul style="list-style-type: none"><li>● No modifications, attachments and conversions to the loader impairing safety are permitted without the consent of the manufacturer. This also applies to the installation and settings of safety devices and valves as well as to welding on load-bearing parts.</li><li>● Replace the ROPS or FOPS protective assemblies if they are deformed - also partially - or corroded or if they have been modified. Contact the manufacturer if the attachment points, the frame or the fasteners are damaged. Do not attempt to repair, dress or reuse damaged ROPS or FOPS protective assemblies.</li><li>● Only use original spare parts of the manufacturer for maintenance and repair of the loader.</li><li>● Repairs are only permitted to be carried out by authorised dealers who have been authorised by the manufacturer.</li><li>● Drain the parts completely before shipping to prevent damage, e.g. from frost.</li><li>● It is prohibited to alter rated pressures of pressure relief valves without the express permission of the manufacturer.</li></ul> |

**Before maintenance and repair**

- Before starting servicing and repair work, the complete loader, especially connections and screw connections must be cleaned of oil, fuel or care materials. Use fibre-free cleaning cloths and no aggressive cleaning materials.
- Before cleaning the loader with water, steam (high pressure cleaner) or other cleaning material, protect all openings into which, for reasons of safety or functionality, no water, steam or other cleaning medium must enter, by means of covering or sealing.  
Especially endangered are electrical components, inlet and outlet openings of the combustion air of the engine and tank openings.  
After cleaning, the covers and seals must be completely removed.

**Removing components**

- Danger of burns from hot parts or liquids! Do not remove components on loaders at operating temperatures.
- Carefully clean components before removal.
- Carefully seal the connections and open holes which were exposed during the removal of a component so that no dirt can penetrate.

**Lifting loads**

- Use hoists for lifting and securing heavy individual parts and heavy assemblies during maintenance and repair and for replacing these. Only use suitable and technically perfect hoists and lifting tackle with sufficient load-bearing capacity! Nobody may stand or work under suspended loads.
- Only experienced persons must be entrusted with securing loads and instructing crane operators. The person instructing the crane operator must be in optical view or in voice contact.

**Installing components**

- If the removal of safety devices is required for setting up, maintenance or repair: Reinstall the safety devices immediately after completion of the work, check them and ensure that the safety devices are functioning correctly.
- Attach the Bowden cables and securing ropes to the ends so that the eyelets can still turn to avoid kinking and subsequent breaking of the cables and ropes.
- Screw connections that have been loosened during servicing and repair work, especially those of oil or fuel lines, must be tightened again before putting the loader back into operation. During servicing and repair work, check all lines and screw connections for leaks and tightness.

**After the maintenance and repair**

- If any area has been repainted and any safety sticker has been damaged or become illegible: Replace the safety sticker before starting up the machine. If a safety sticker was attached to a replaced part or replaced assembly: Also apply the safety sticker to the replacement part. Replacement stickers can be obtained from the manufacturer.
- Provide all bare metal machine parts with protective varnish in order to prevent corrosion damage.
- After completing the maintenance and repair work, replace all safety devices, covers, noise and vibration insulation.
- Check the function of the loader, especially the repaired components in a test run. Ensure that there are no persons in the danger area of the loader.
- Only put the loader back in operation if it functions correctly in all areas.



### **Safety regulations for work on the engine**

- Only carry out maintenance and repair work when the loader is secured (see operating manual "Securing the loader").
- Attention, danger of poisoning! Engine exhaust gases are dangerous to health! Do not inhale exhaust gases.
- Perform the following actions for all work where the engine will be operated in enclosed areas: Ventilate the room well and extract the exhaust gases using an extraction system.
- Danger of injury from rotating and hot parts! Let the engine cool down after switching off!
- Only check the V-belts when the engine is stopped!
- Do not smoke when handling flammable liquids and avoid open light or flames!
- Do not extinguish fires on the loader and burning liquids with water! Use suitable extinguishers such as powder, carbon dioxide or foam fire extinguishers!
- In the case of fire, always call the fire brigade!
- Repair oil and fuel leaks immediately!
- Prevent environmental damage! Do not allow oil and oily waste to penetrate into the soil or water!
- Absorb escaped oil or fuel using a binder. Dispose of the binder with the absorbed liquid separately from other waste and in accordance with the environmental regulations.
- Biodegradable "environmentally friendly" oil must, like any other oil, also be disposed of separately.





## Safety regulations for work on the hydraulic system

- Only trained specialist personnel with special knowledge and experience are permitted to work on hydraulic equipment.
- Residual pressure only decays slowly. Substantial residual pressure can exist in parts of the hydraulic system even with loader parked on a horizontal surface with lifting frame completely lowered and engine stopped.
- Depressurise the system before maintenance and repair work on the hydraulic system (see Part 4, section "Depressurising hydraulic system").
- Leaks where oil escapes must be rectified to avoid the following hazards:
  - Environmental hazard
  - Fire hazard
  - Slipping hazard
  - Explosion hazard
  - Risk of injury
- Attention, risk of injury! A thin, high-pressure hydraulic oil jet can penetrate the skin! If oil penetrates the eyes or skin, contact a doctor immediately!
- Do not search for leaks with the hands! Use a piece of cardboard or paper on which exiting oil jets can be seen!
- Do not repair damaged piping and hydraulic hoses but replace them immediately with new ones, even if only moisture is visible!
- Hydraulic hoses must be replaced at the latest after six years of use. Country-specific regulations can prescribe shorter intervals and must be complied with.
- Open hydraulic connections carefully to be able to react in the event of a large quantity of discharging oil.
- Do not open damaged preloaded units (e.g. pressure reservoirs); always replace them completely.
- Only use suitable containers for collecting hydraulic oil.
- Dispose of discharged oil and oily waste in accordance with the environmental regulations.
- Handle O-rings, Q-rings and seals particularly carefully.
- Replace damaged or lost O-rings, Q-rings and seals immediately.
- Hydraulic lines must be professionally positioned and installed. The work must only be carried out by authorised specialists. Ensure that connections are not mixed up. Valves, length and quality, particularly pressure and temperature resistance of hydraulic lines must comply with the requirements.





### **Safety regulations for work on drive and axles**

- Keep the telescopic arm as low as possible when jacking up the loader to keep the centre of gravity as close as possible to the ground.
- Only use suitable equipment such as workshop jacks for jacking up and supporting the loader.







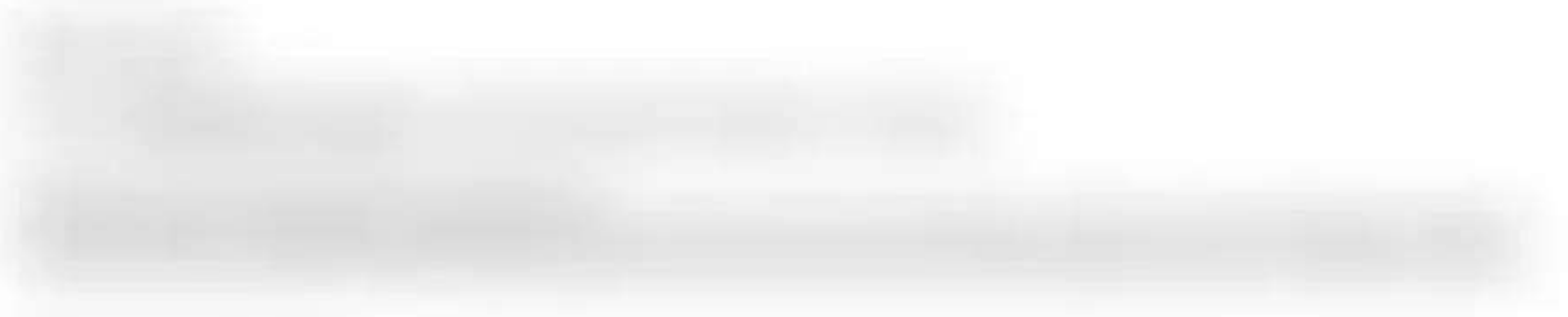
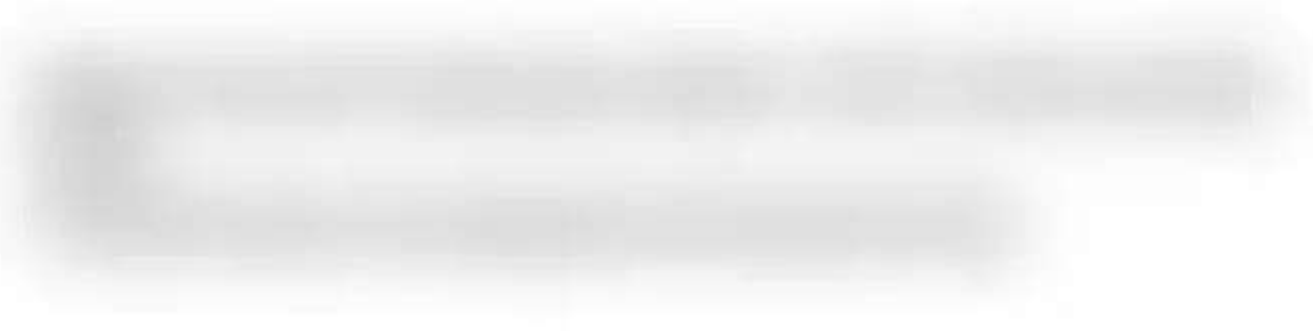






































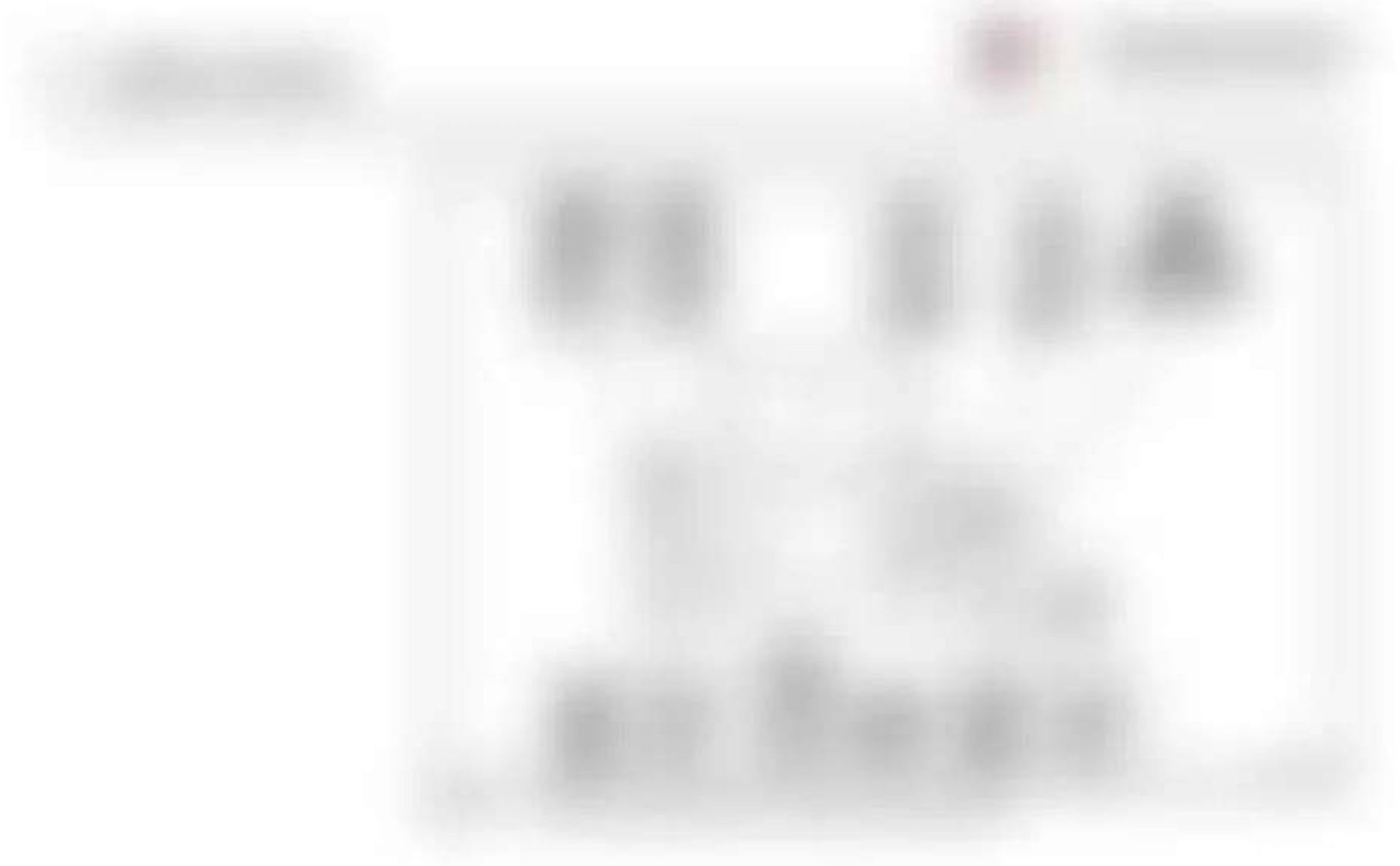






























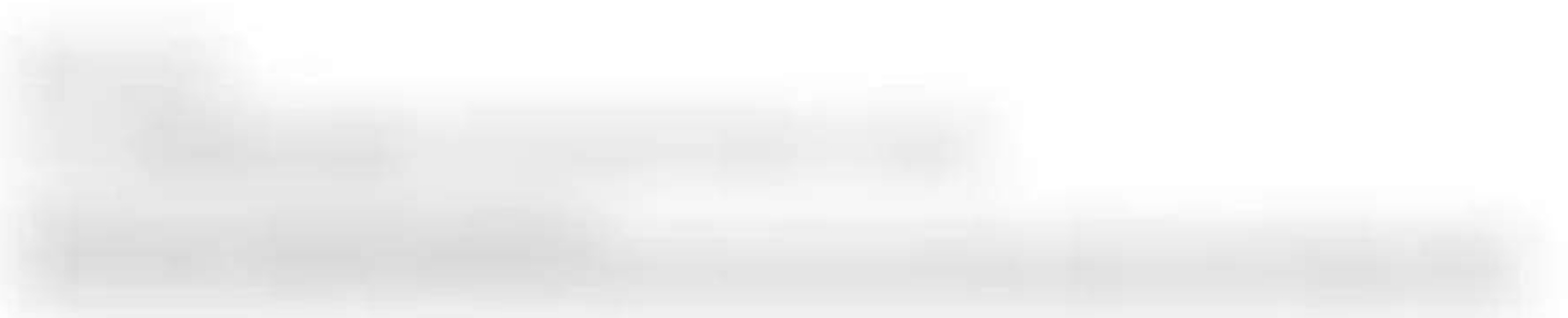
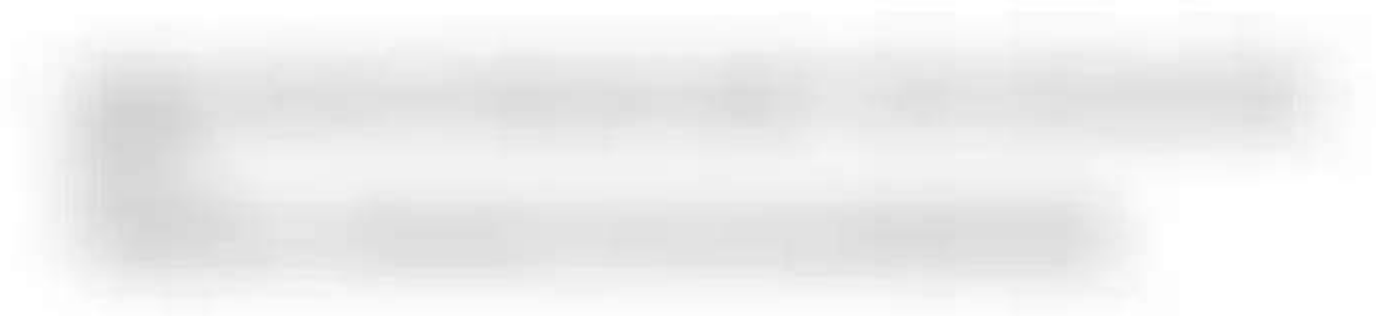
































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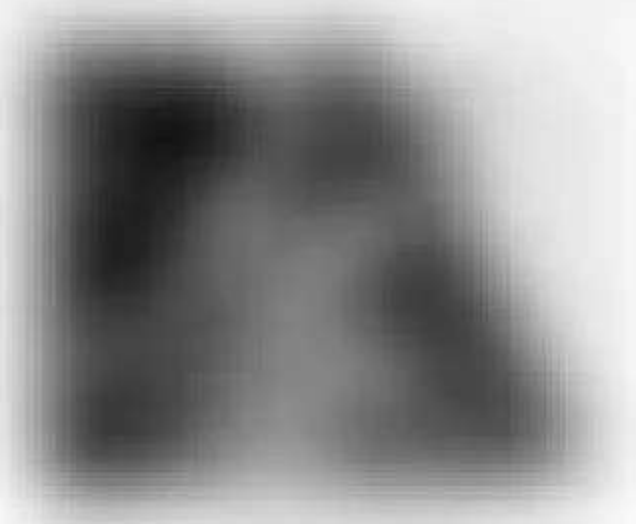












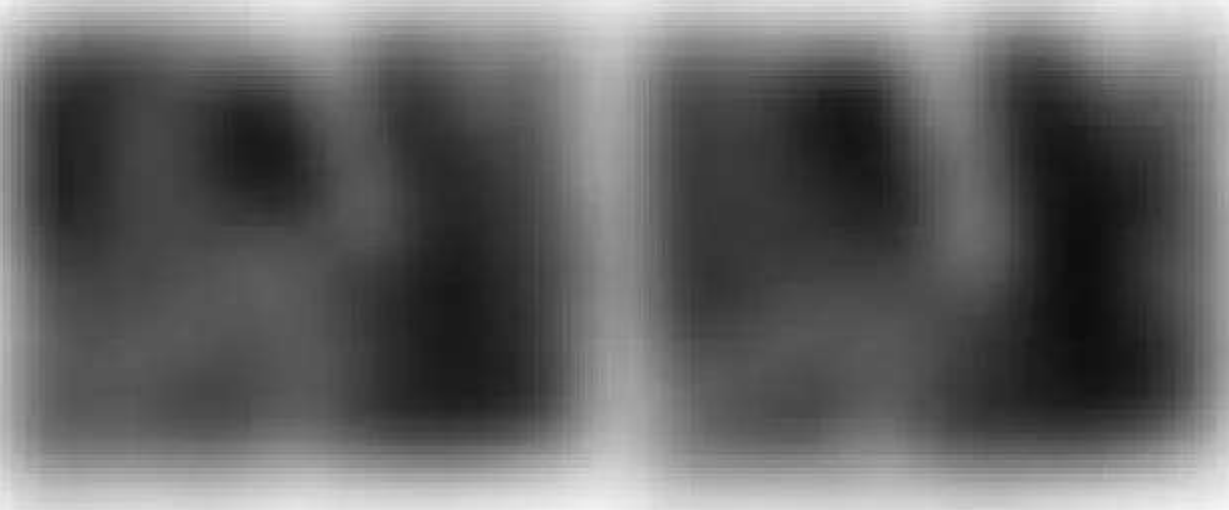
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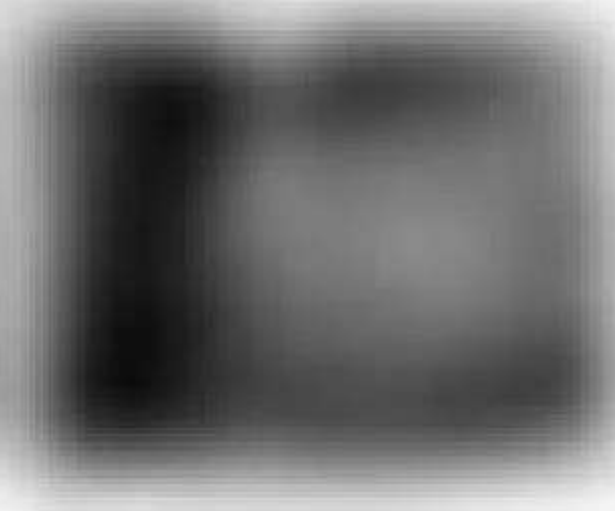
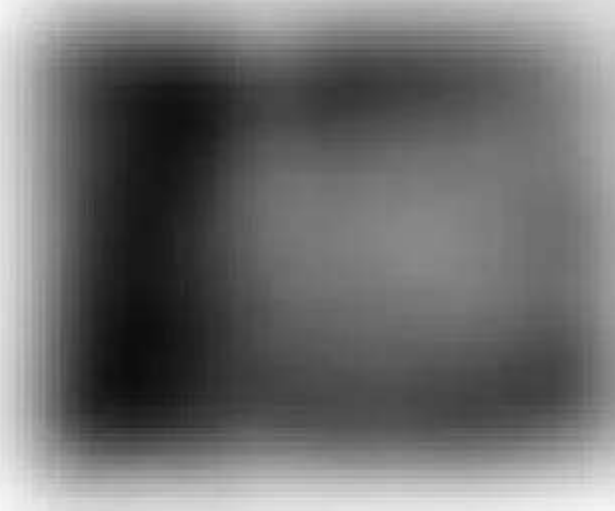


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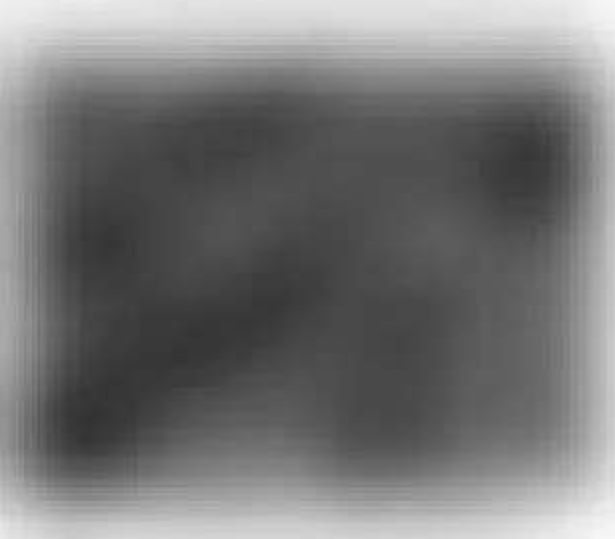
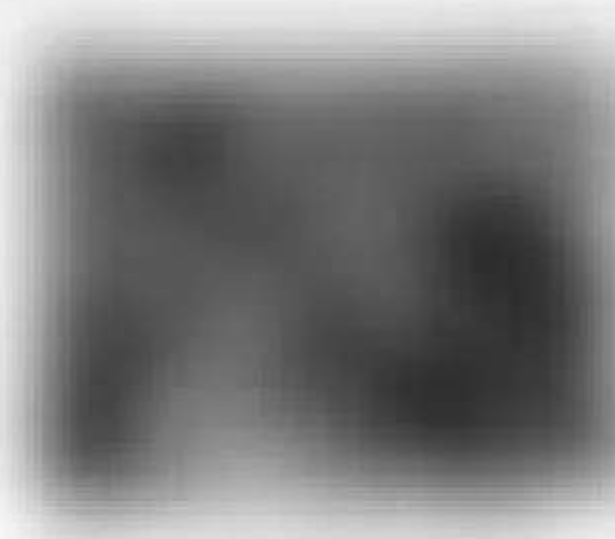


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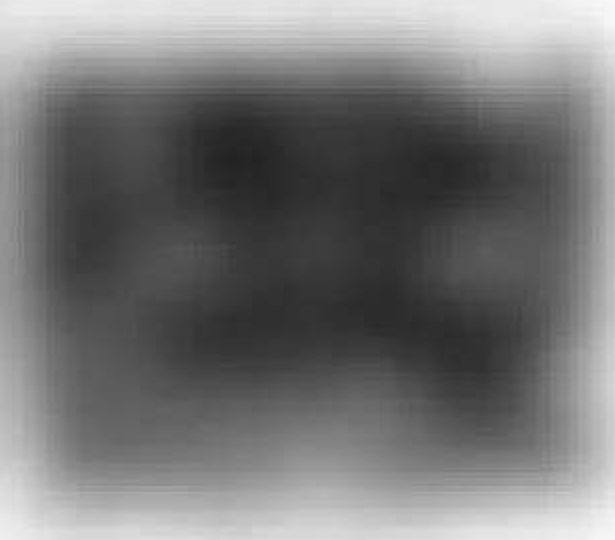
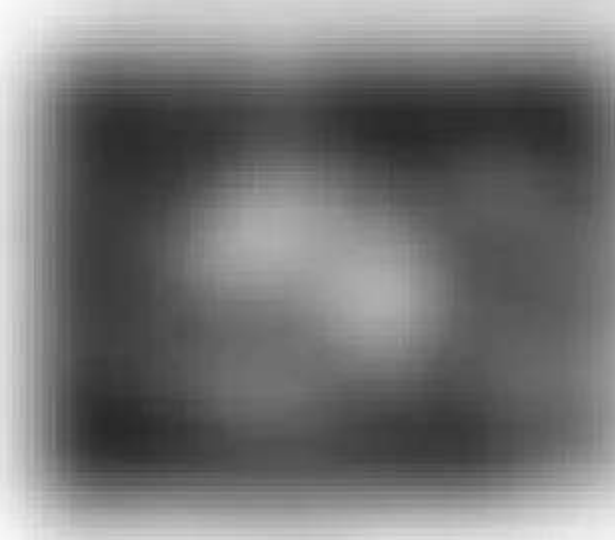








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1. Introduction

### 2. Methodology

2.1. Data Collection

### 3. Results

3.1. Descriptive Statistics

3.2. Regression Analysis

3.3. Discussion





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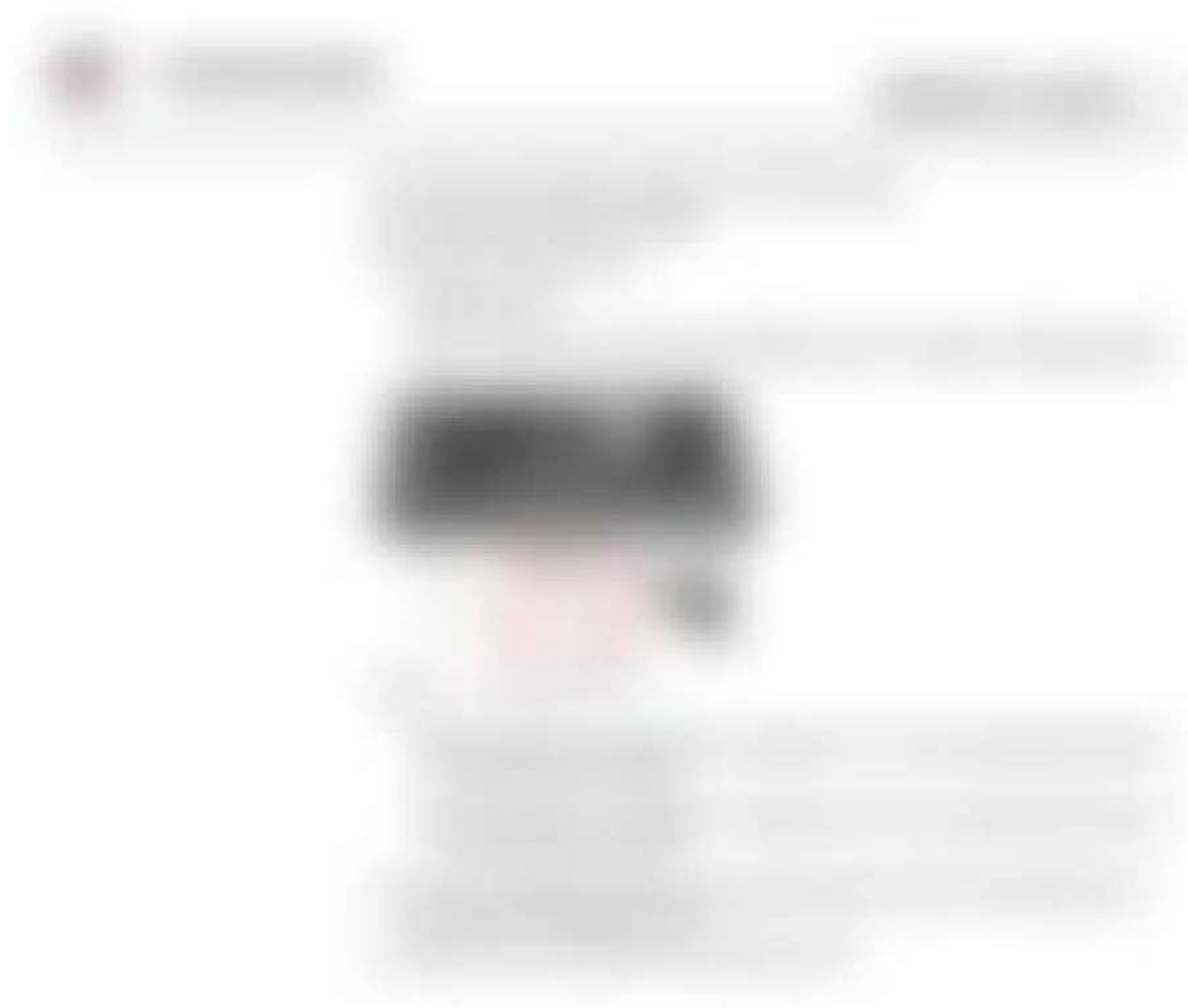
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Left sidebar containing a list of items, likely a table of contents or a list of related articles.

Main content area containing the body text of the article, organized into paragraphs.

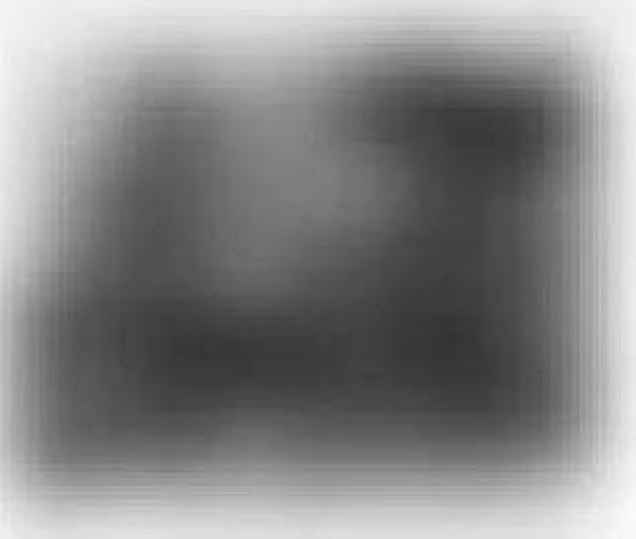












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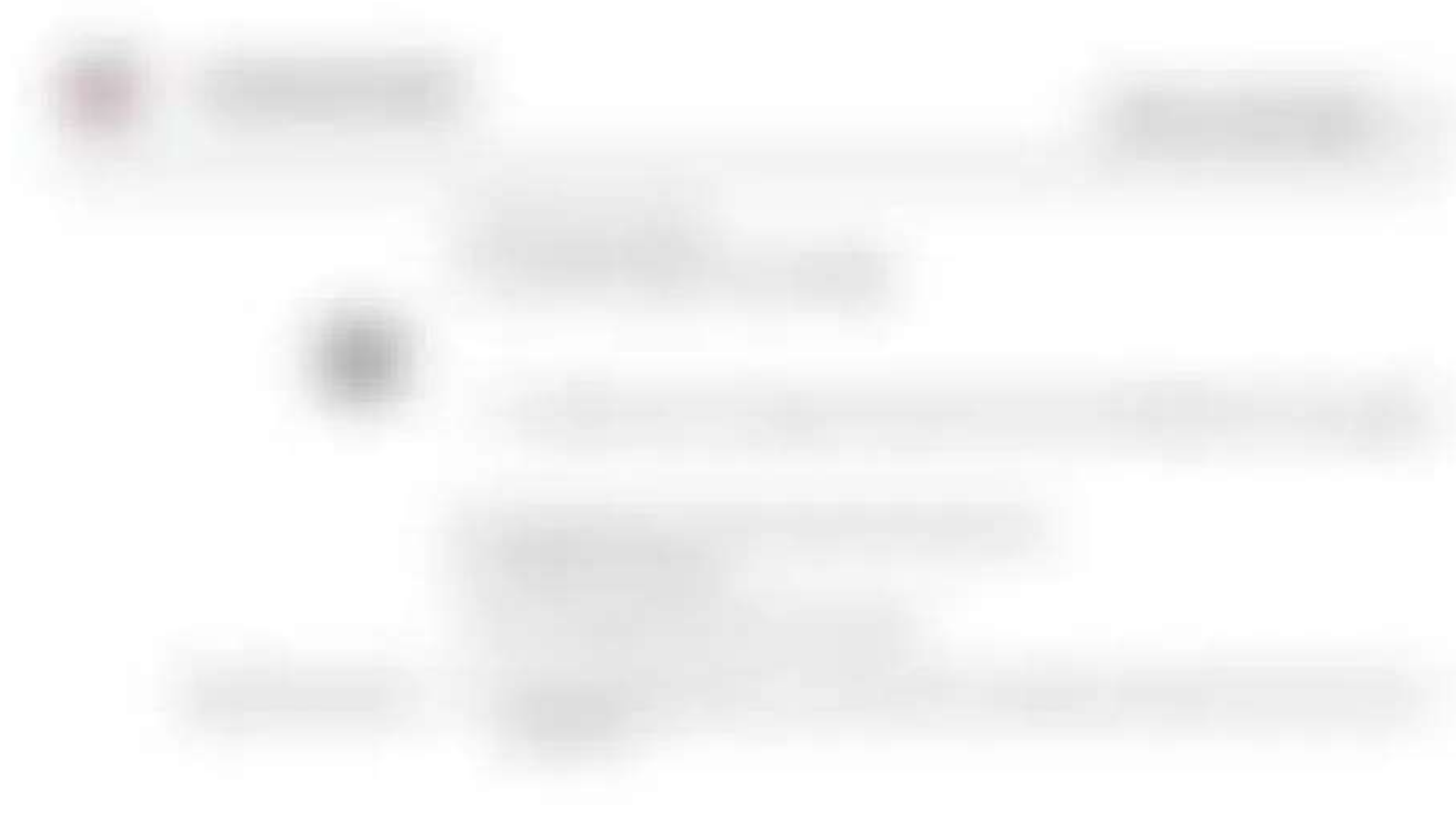










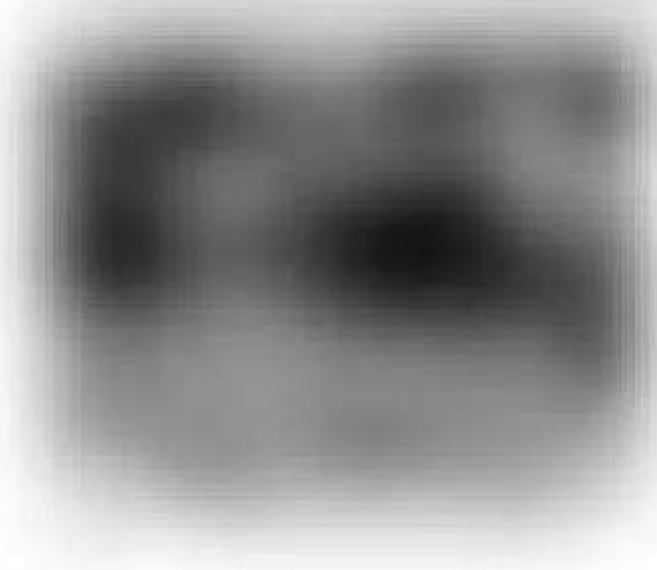




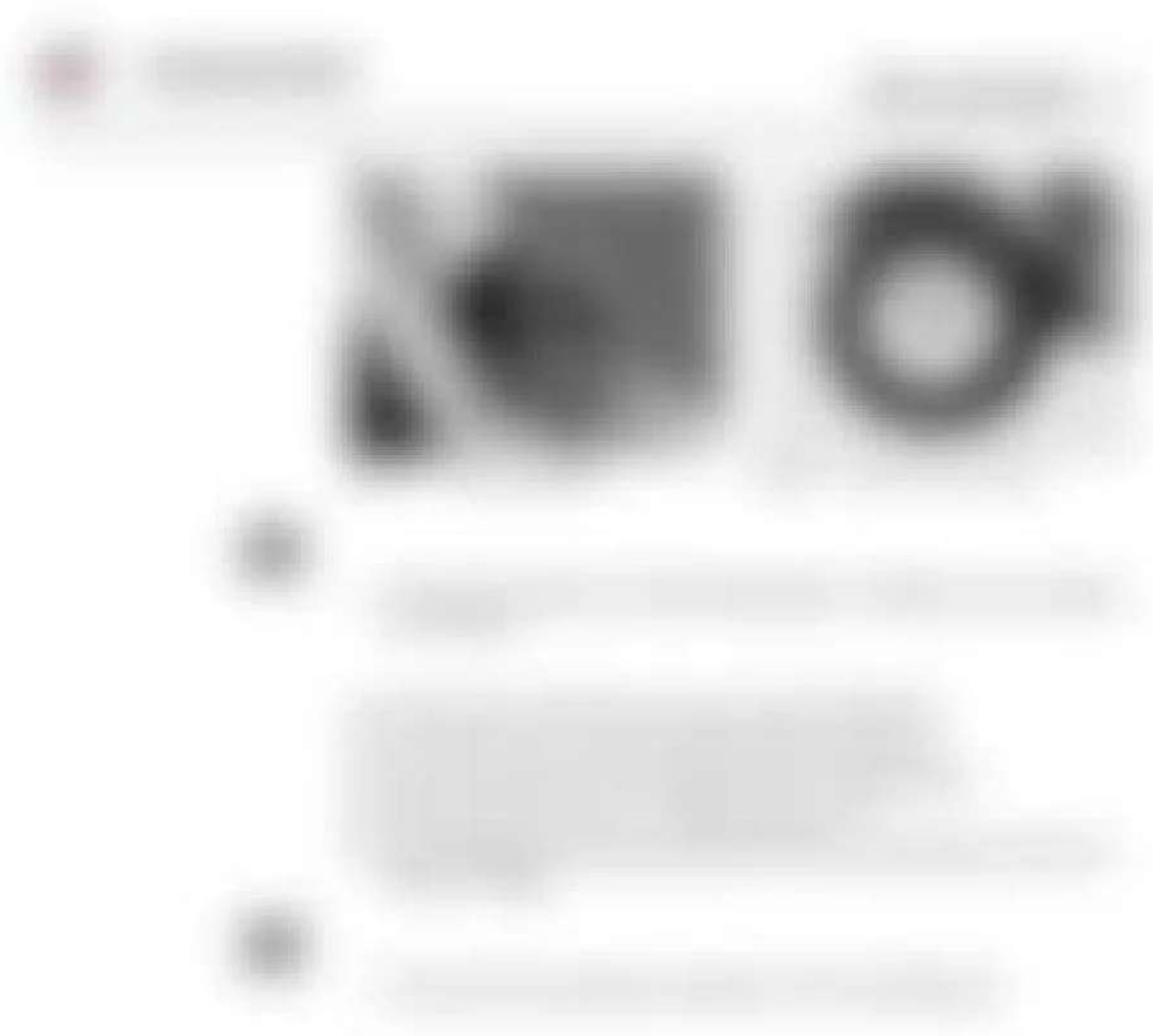














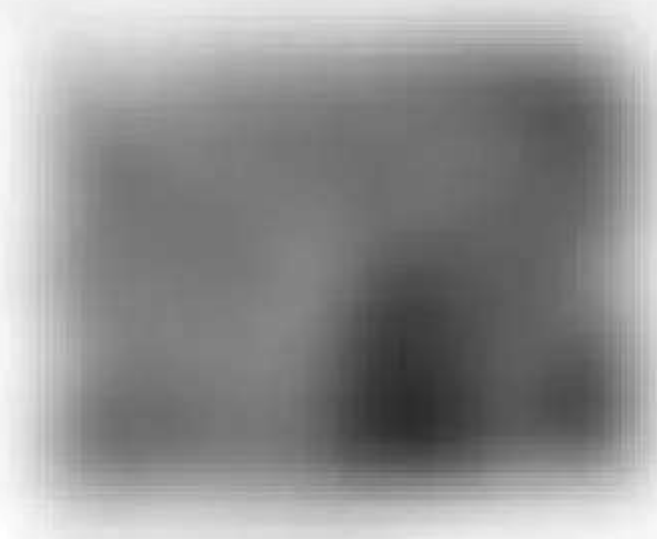












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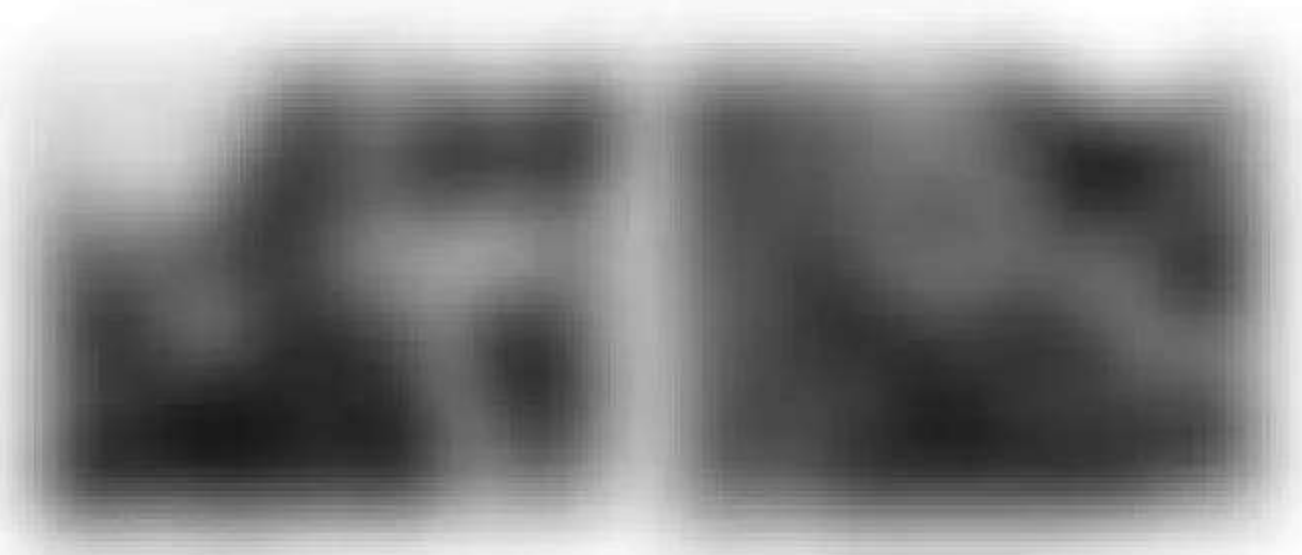
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1. Introduction

2. Methodology

3. Results

4. Discussion

5. Conclusion

6. References

7. Appendix





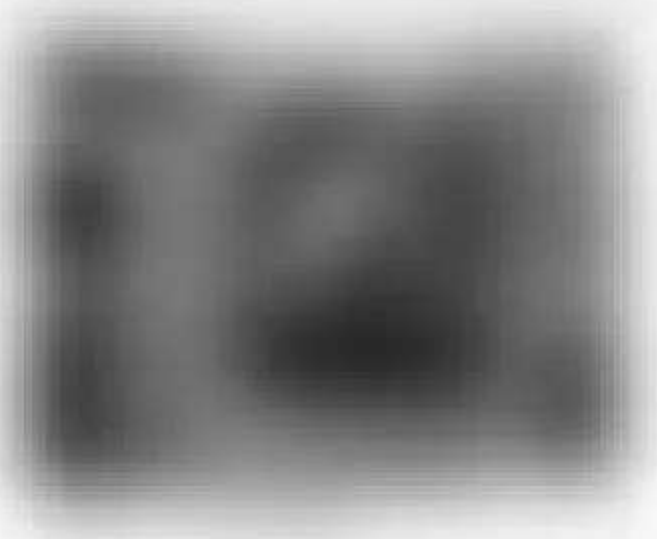




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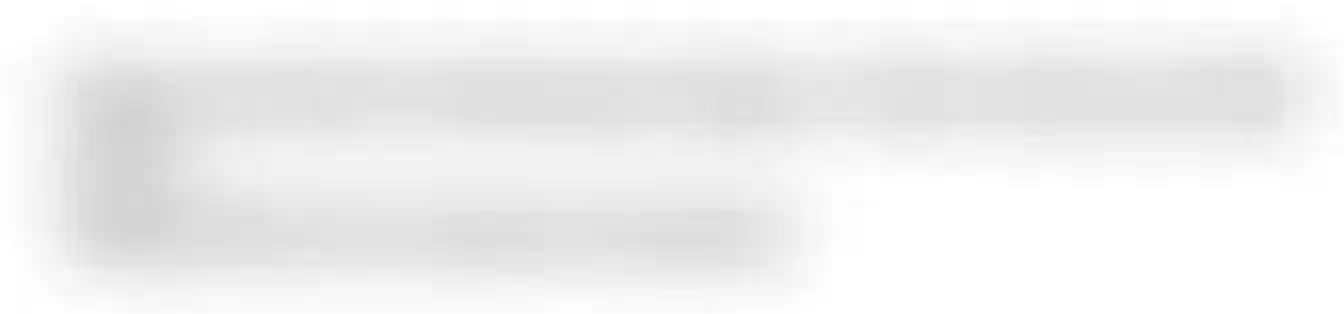
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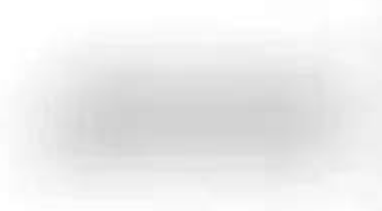






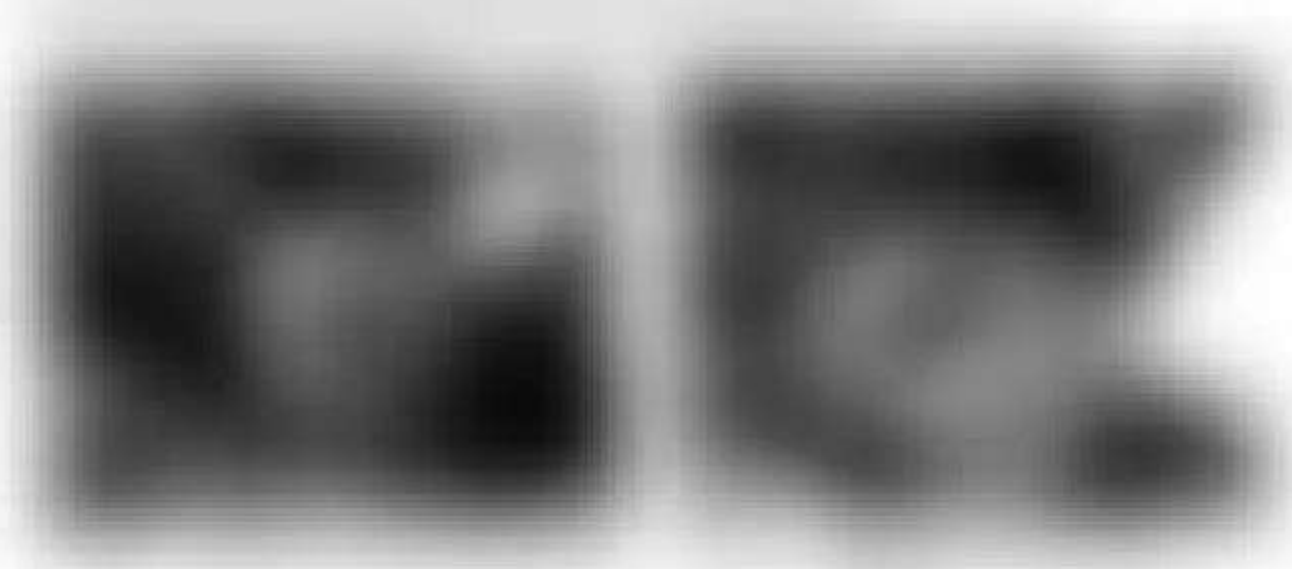
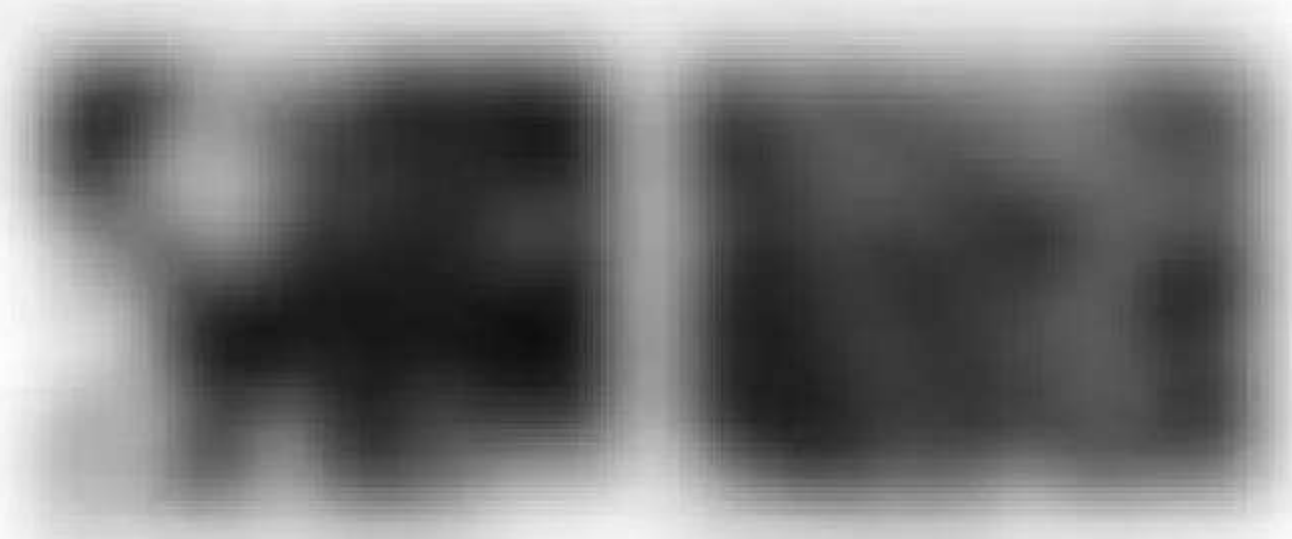


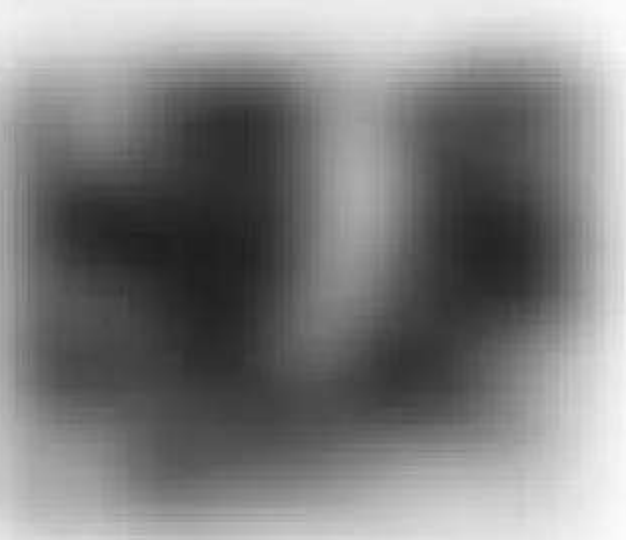
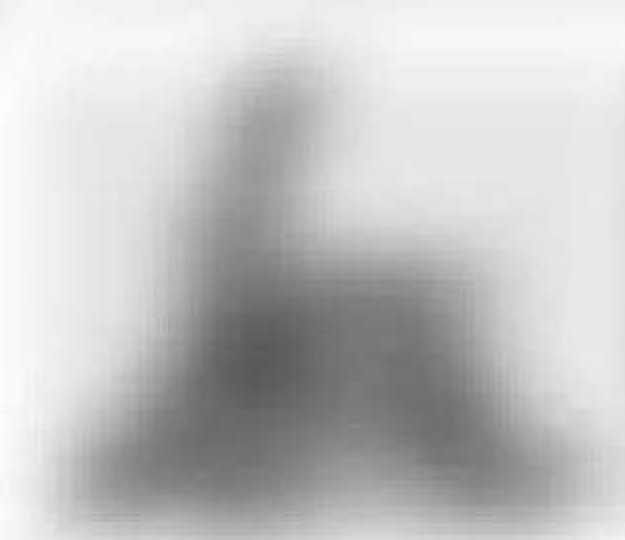
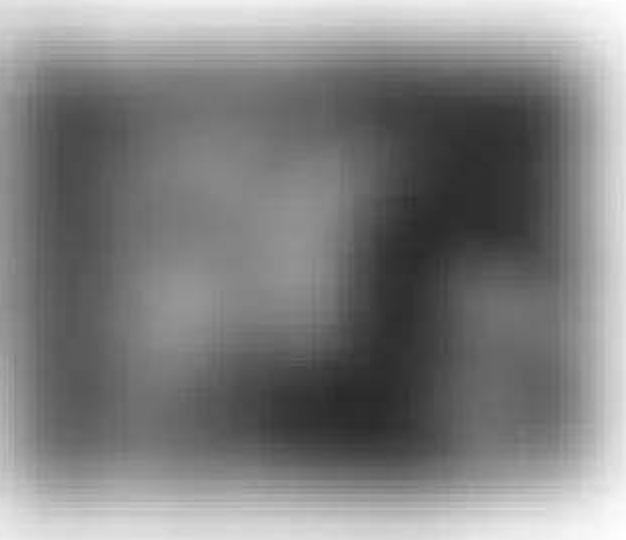
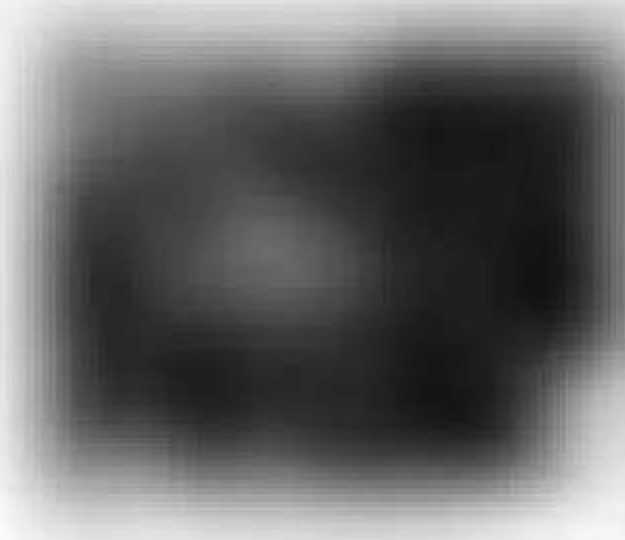
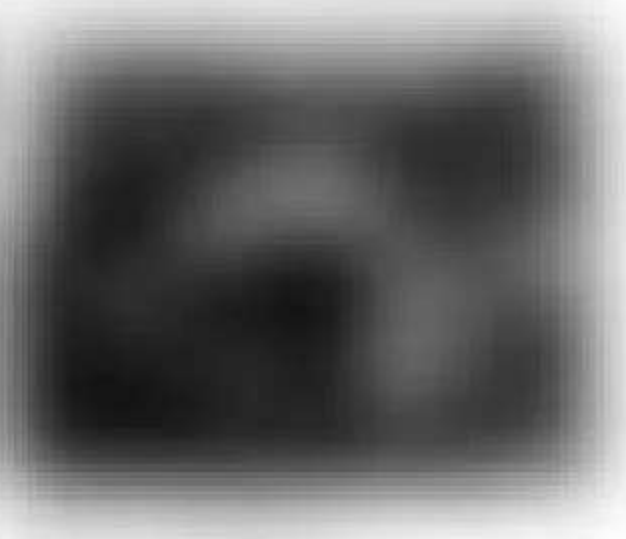
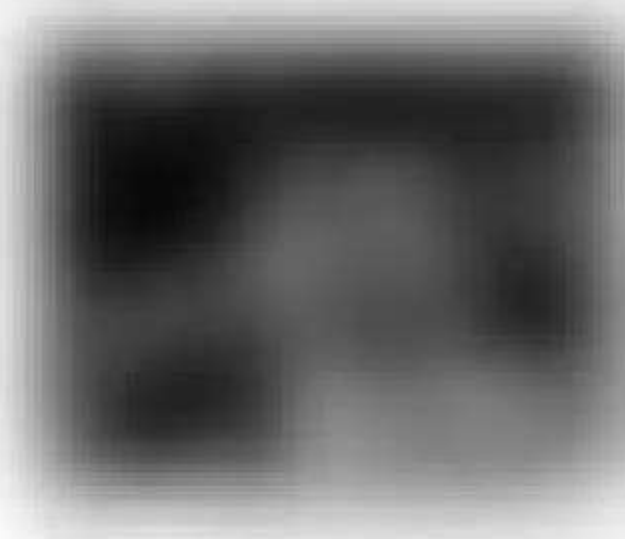






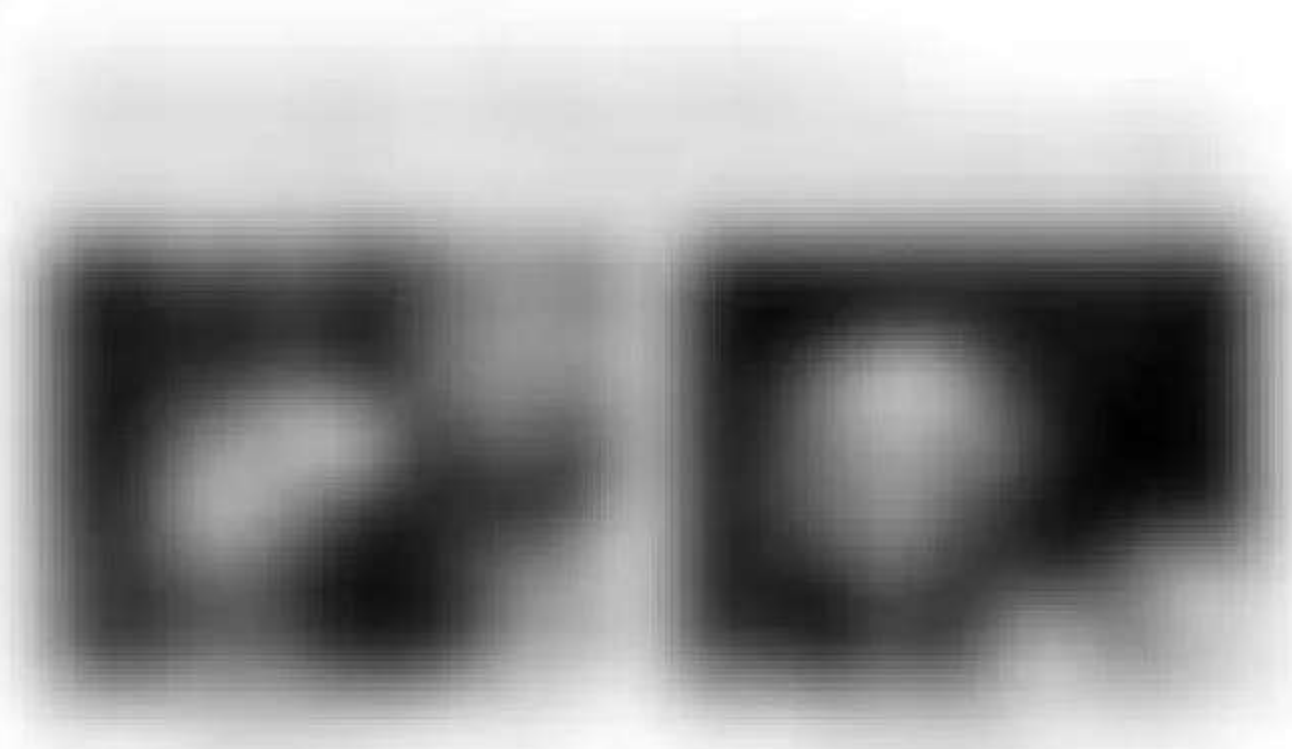
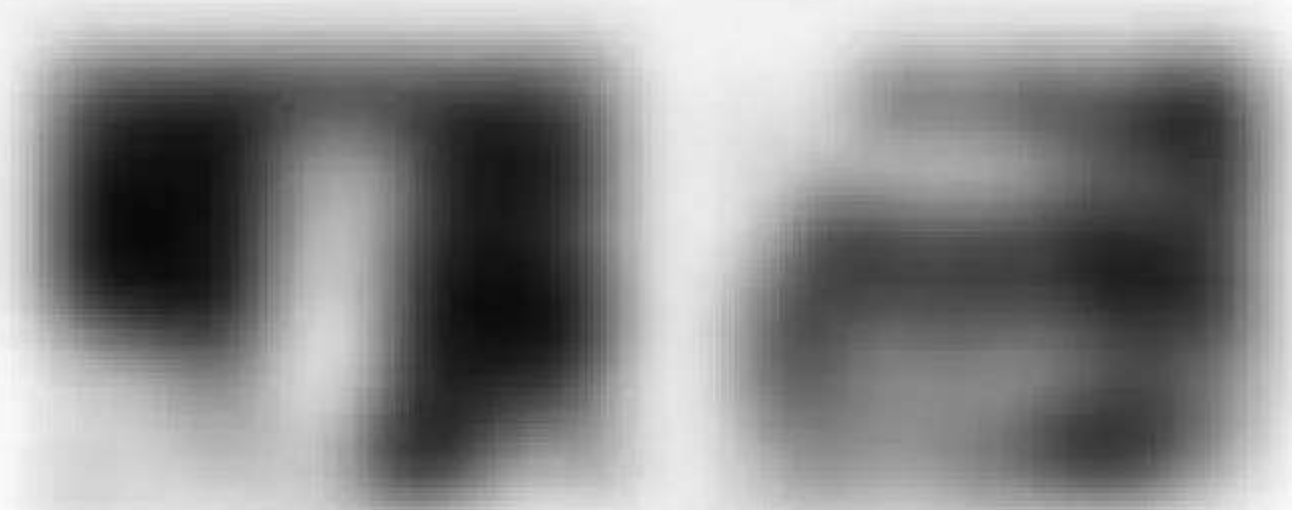














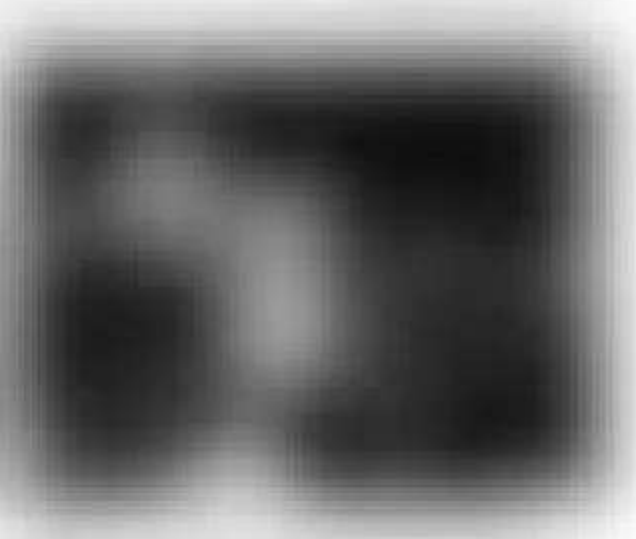
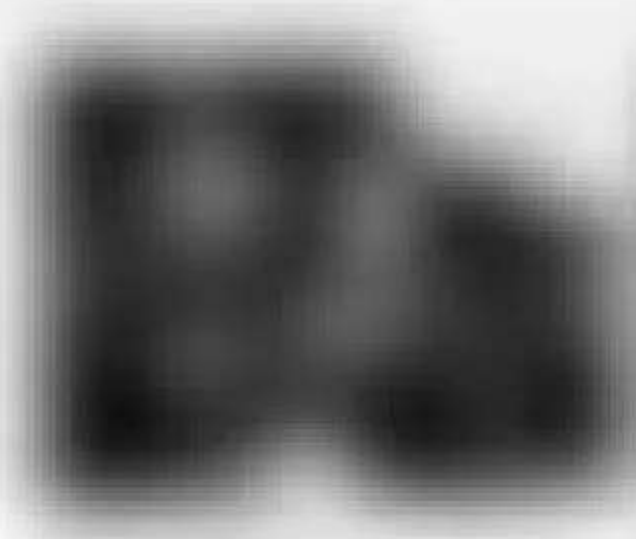


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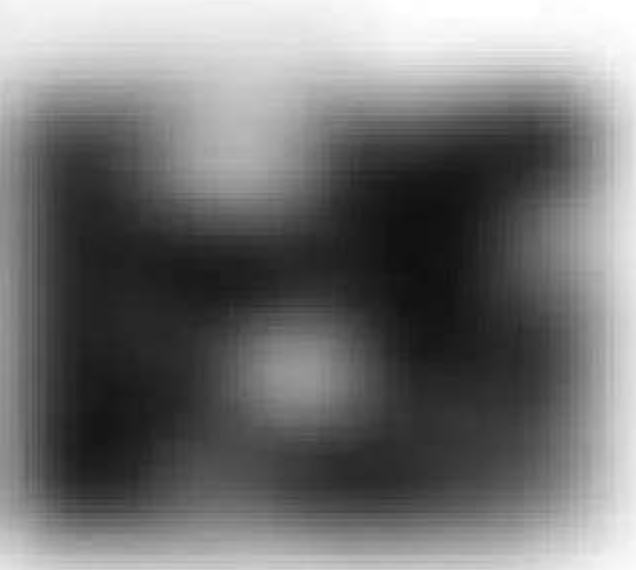
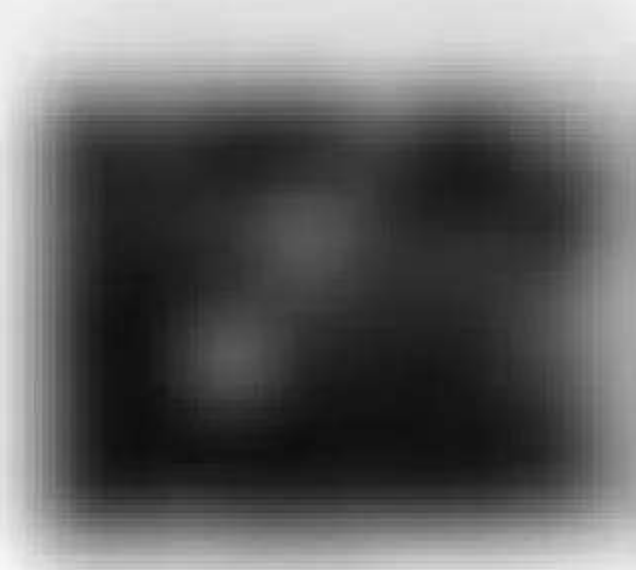


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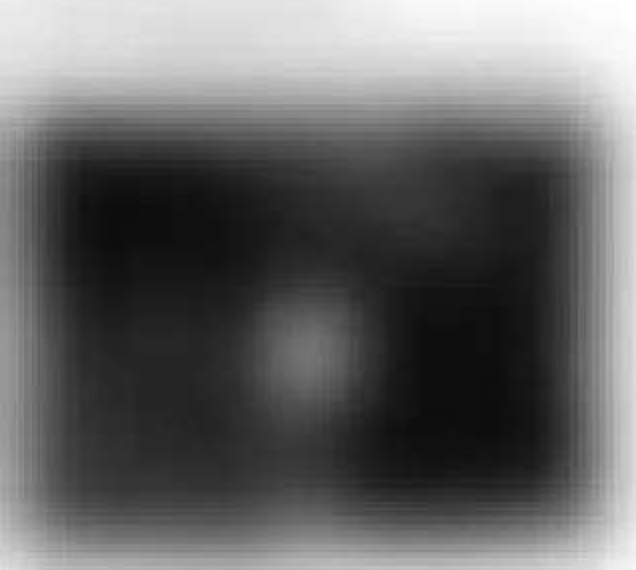
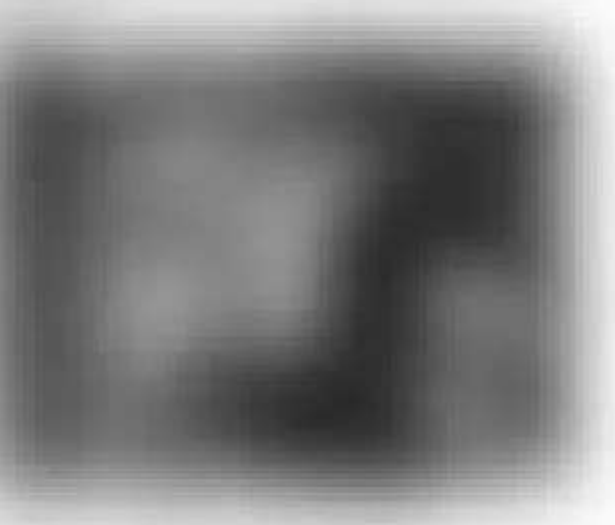
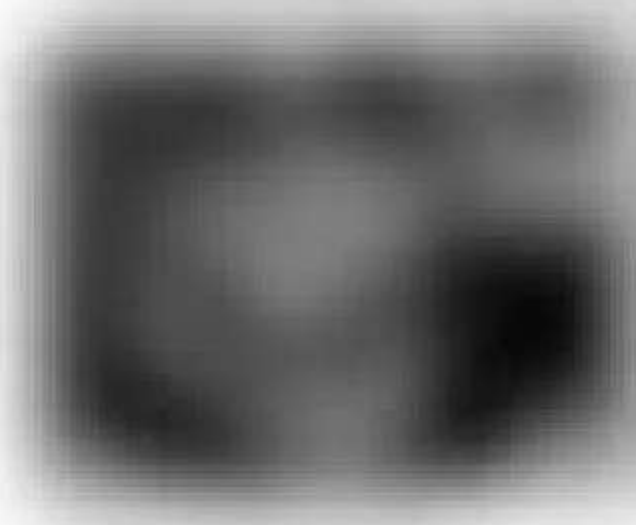


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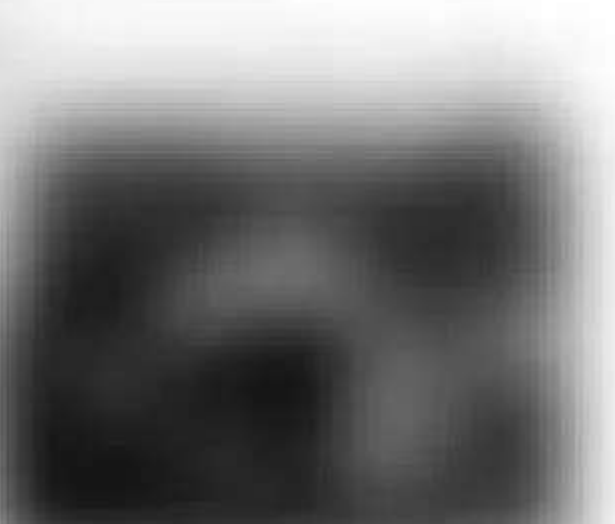
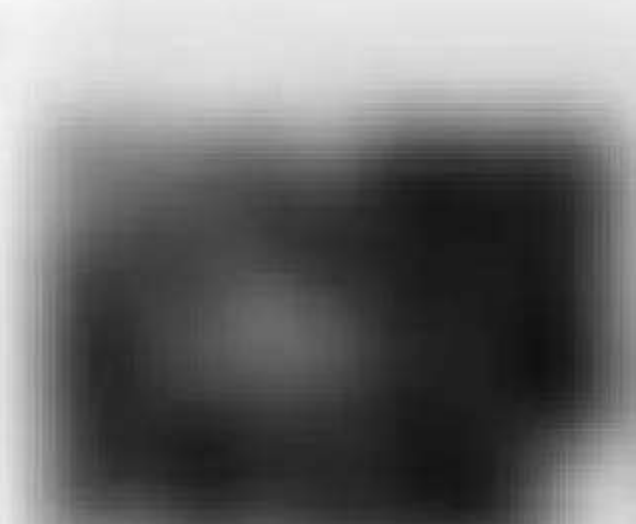




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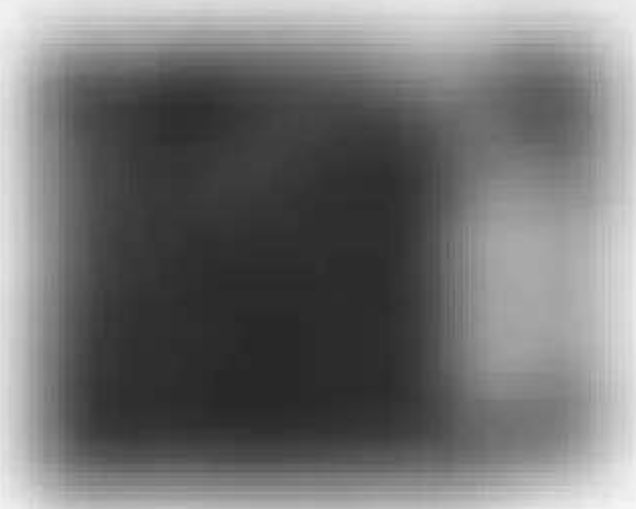


















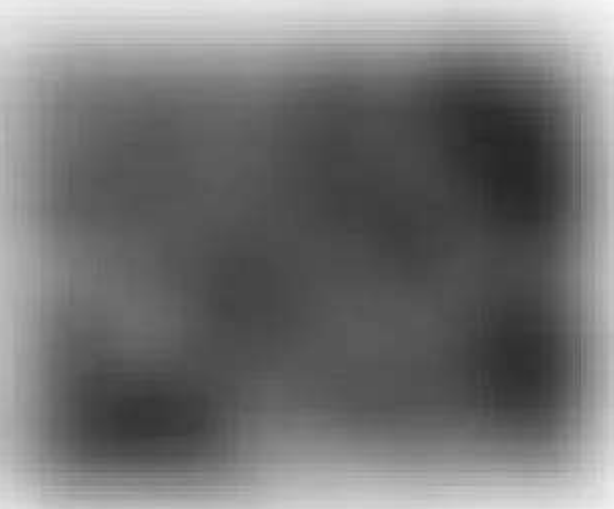
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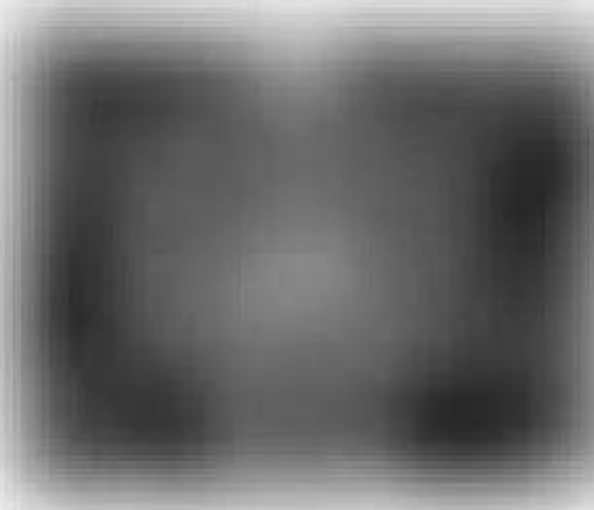
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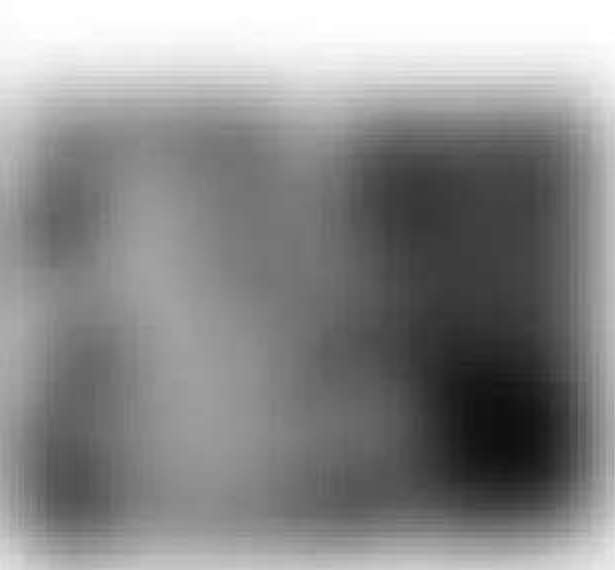
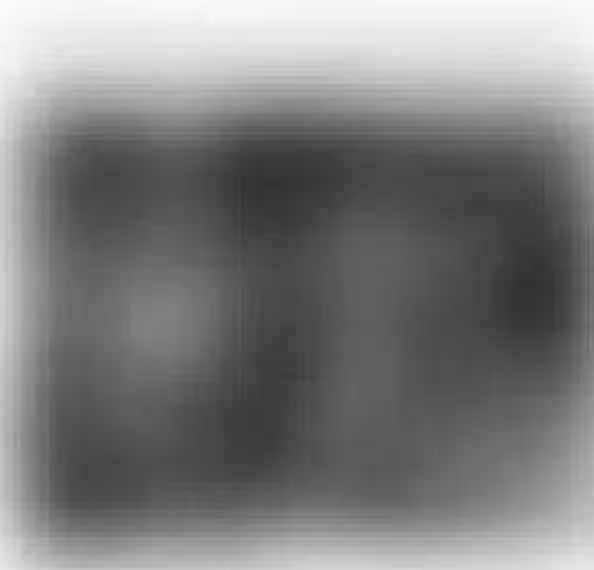




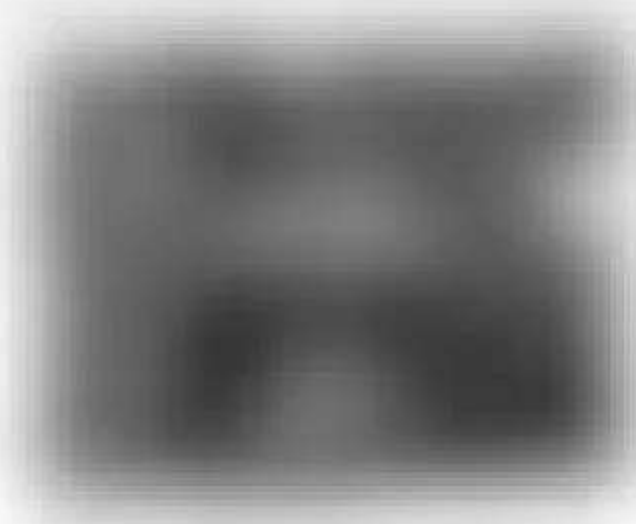
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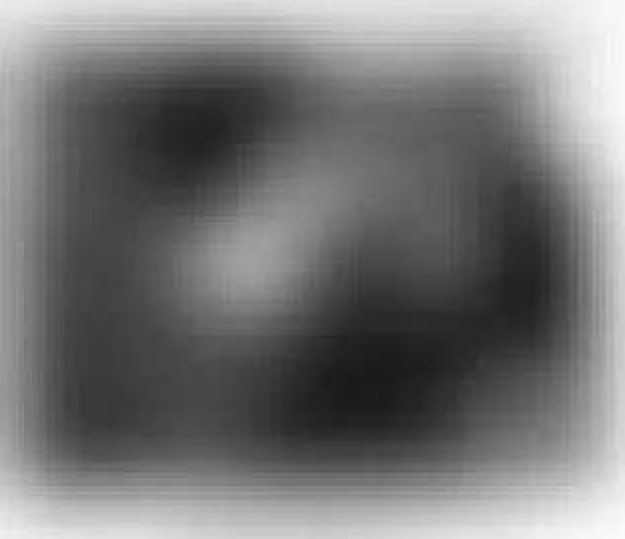
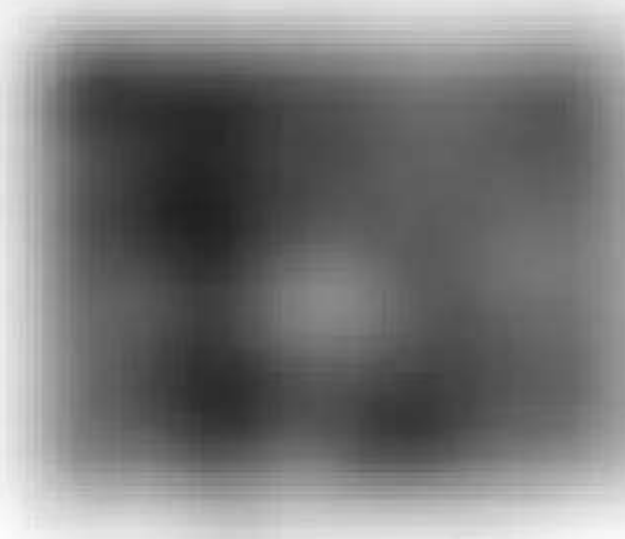
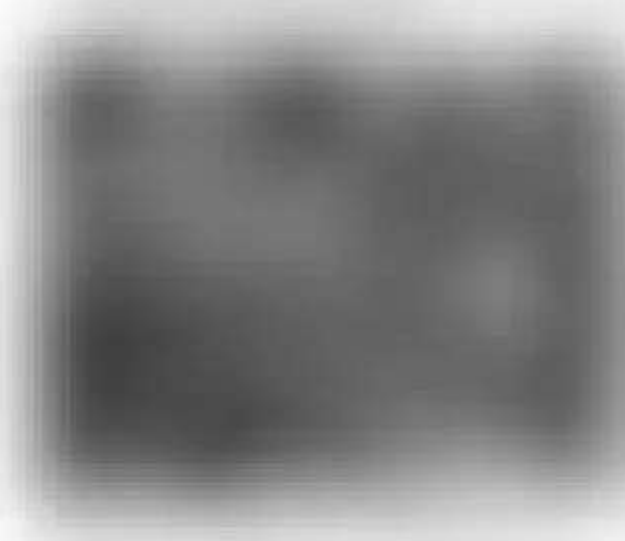
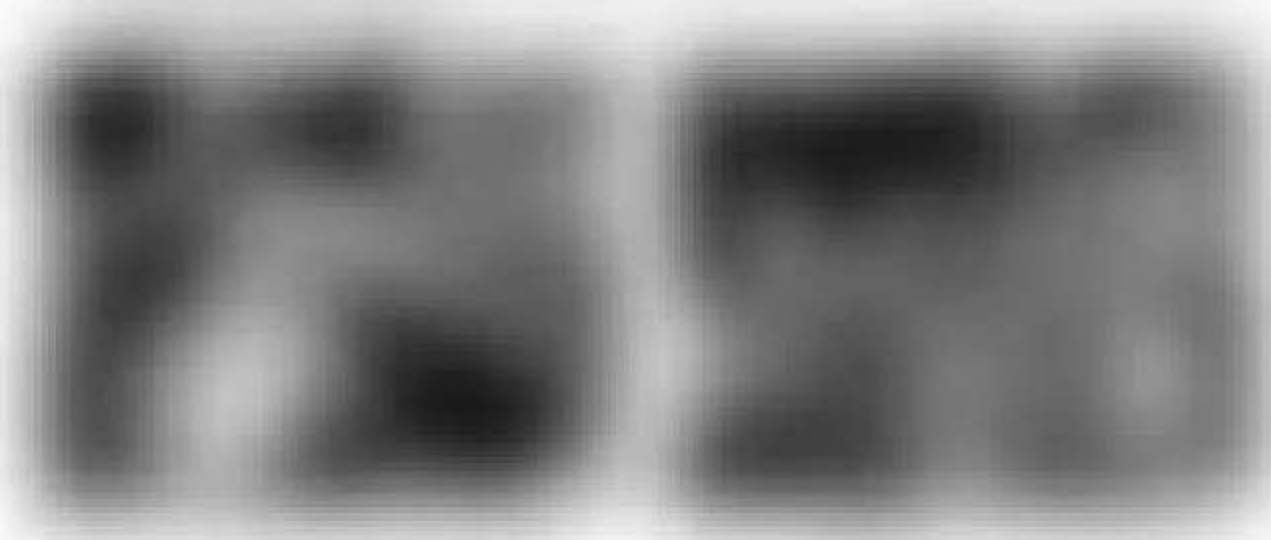
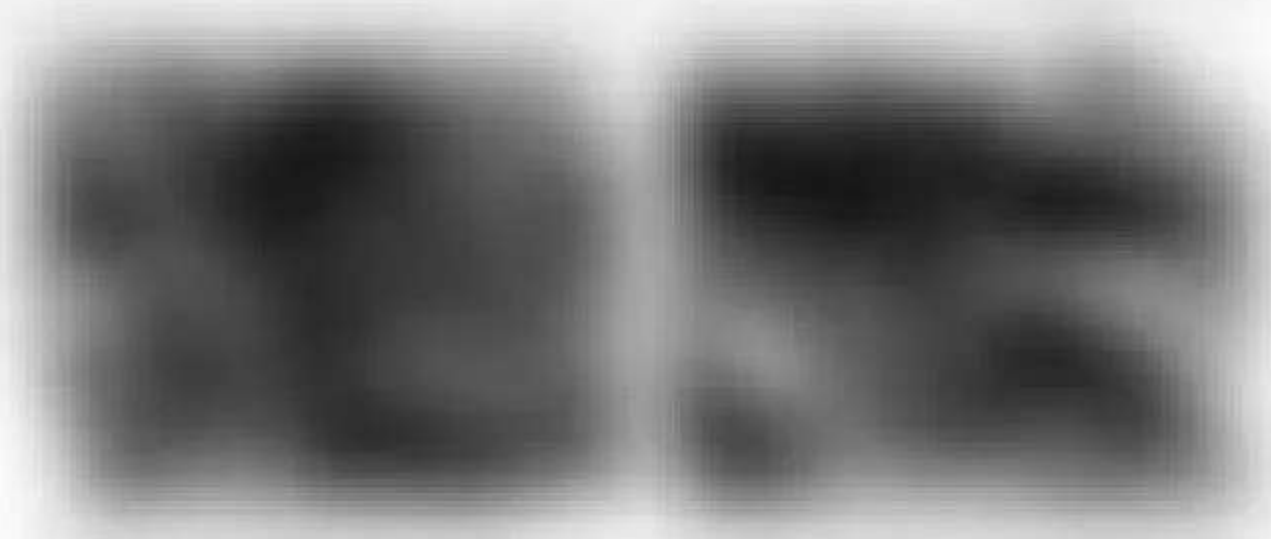


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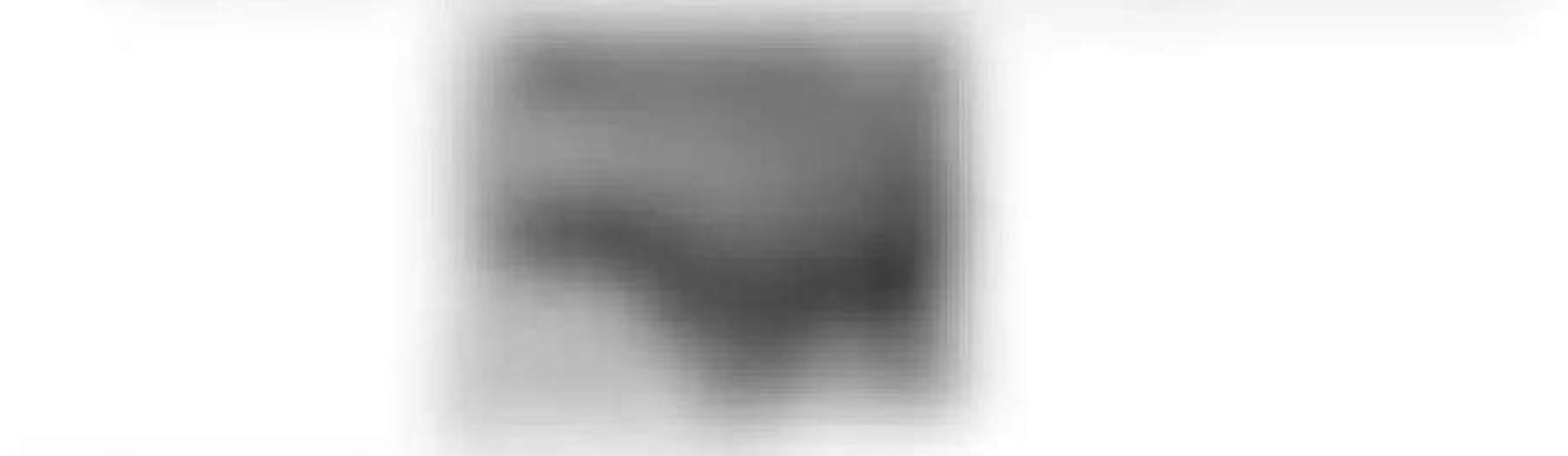








1. Introduction



2. Methodology

3. Results

4. Discussion

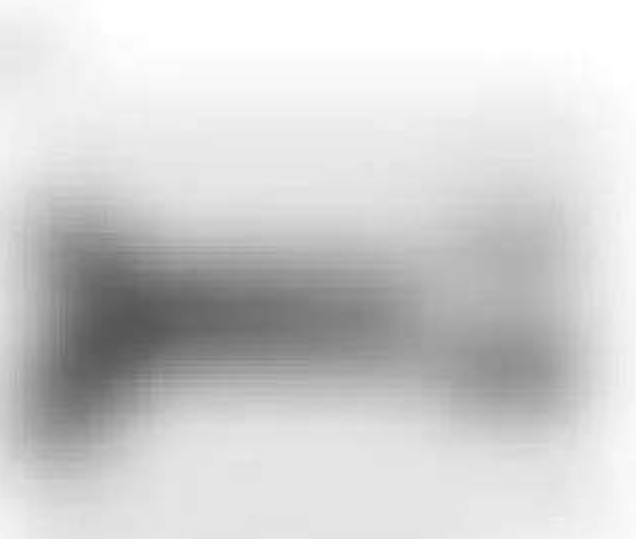
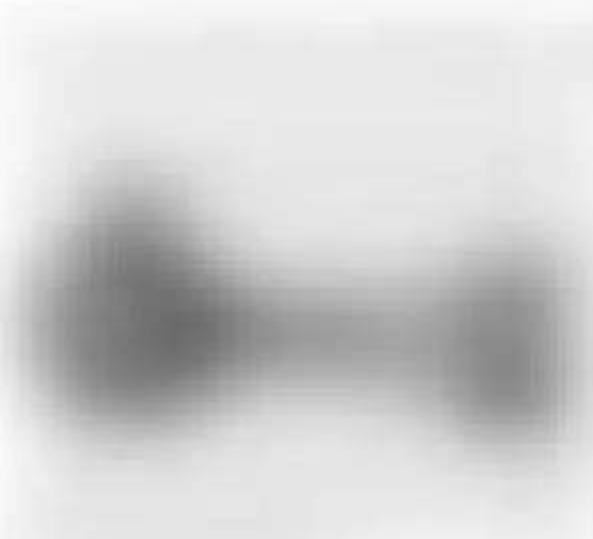
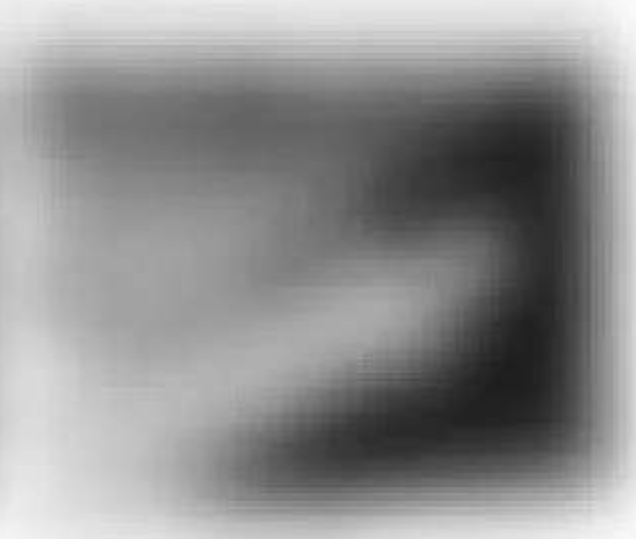
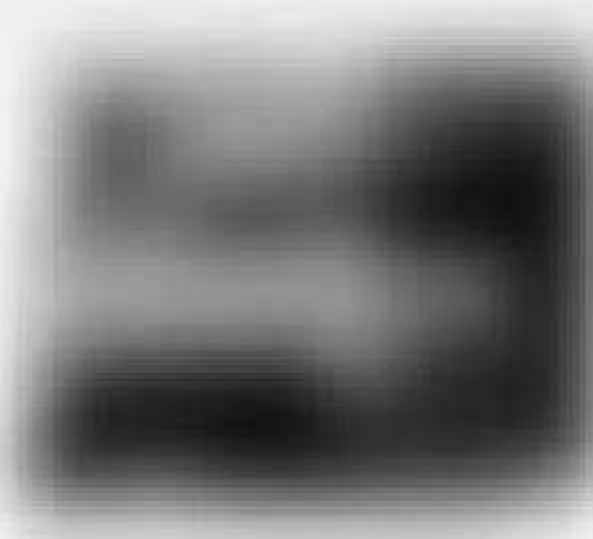
5. Conclusion











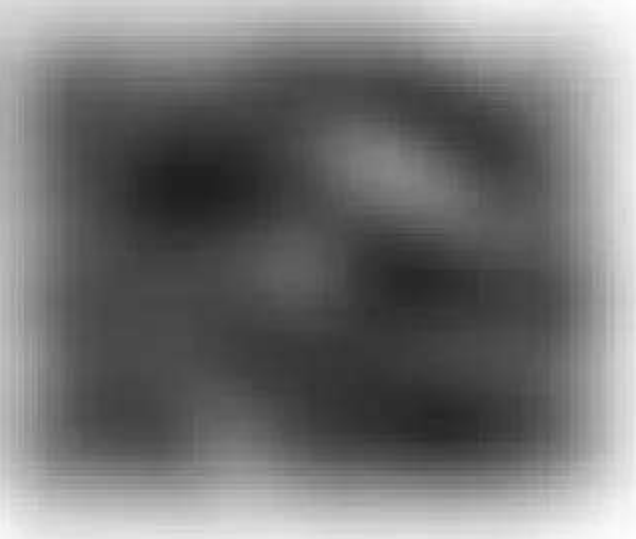
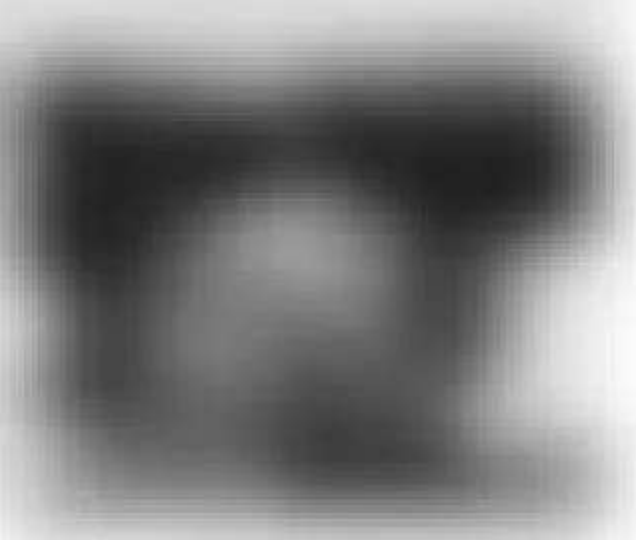
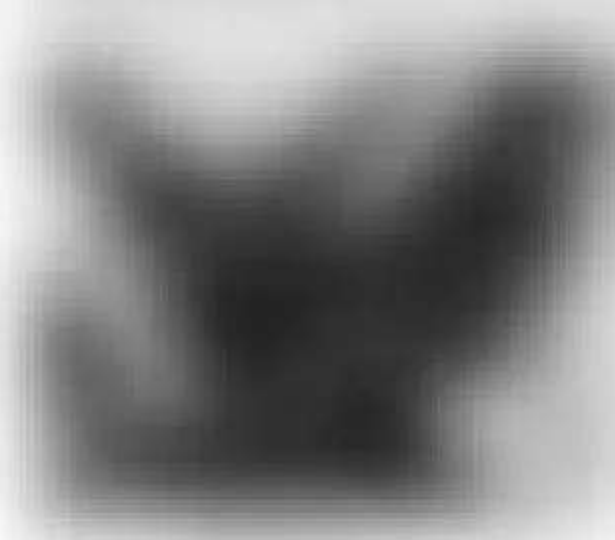




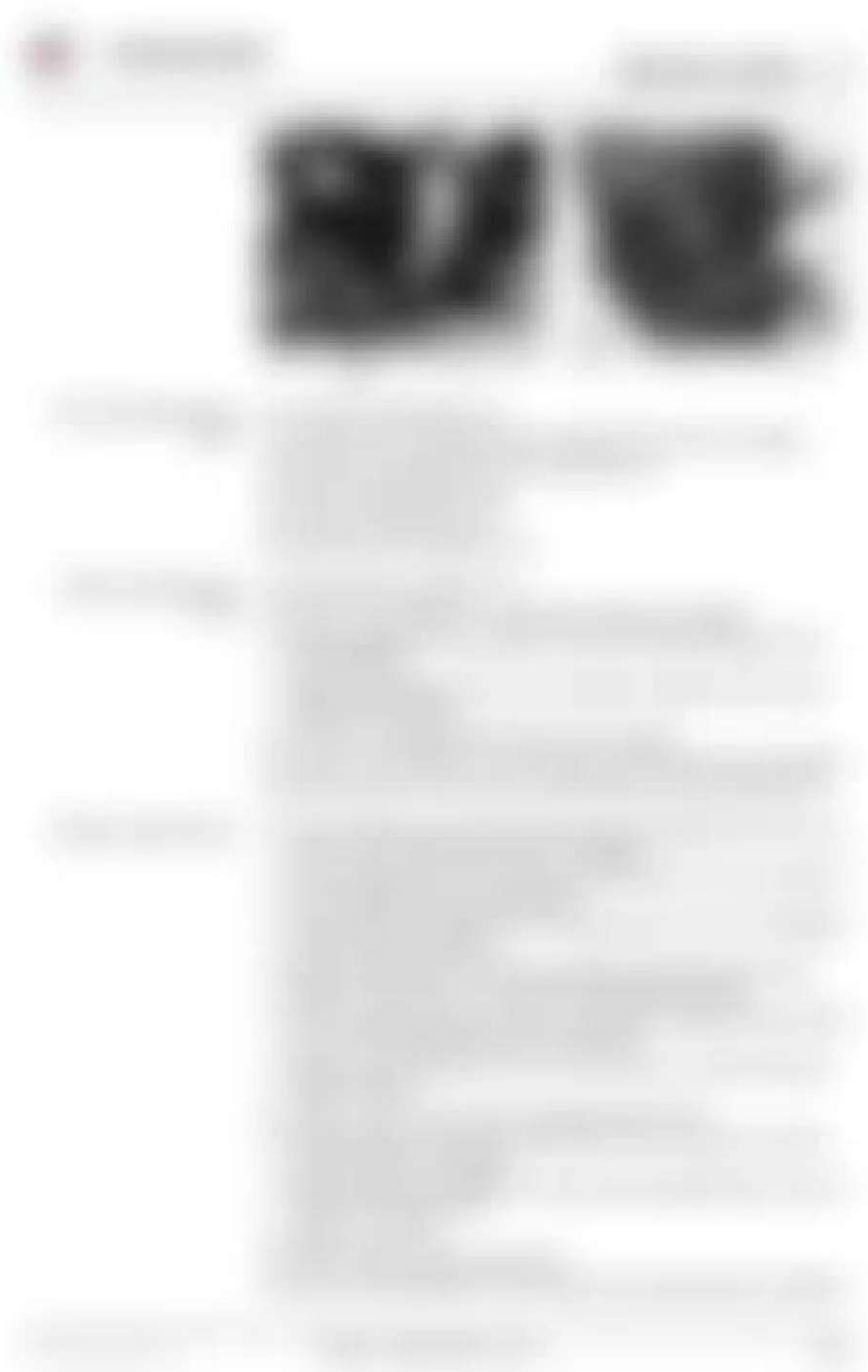










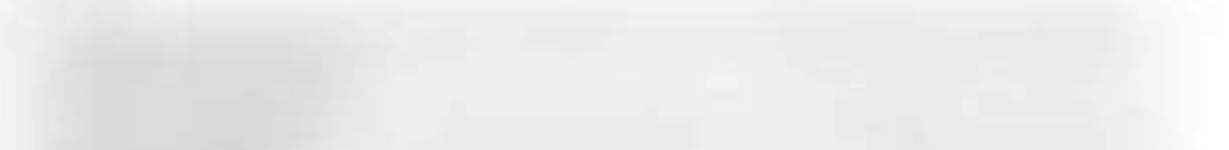
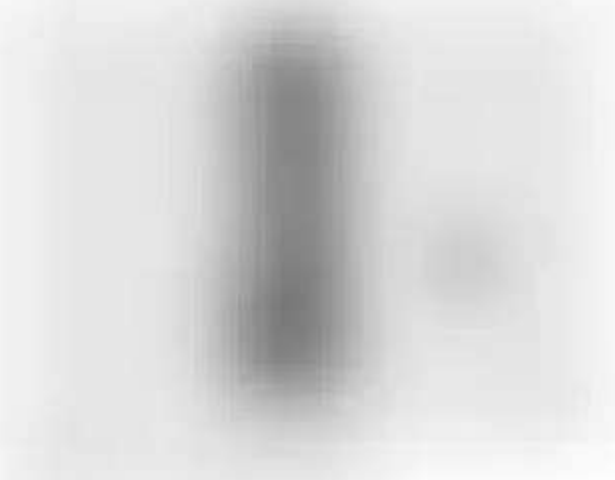
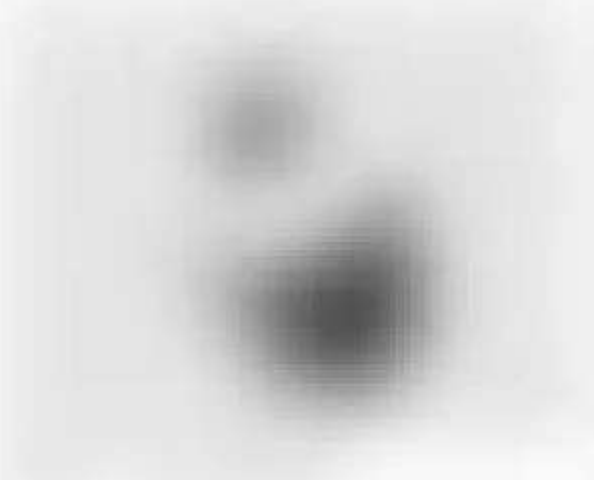






















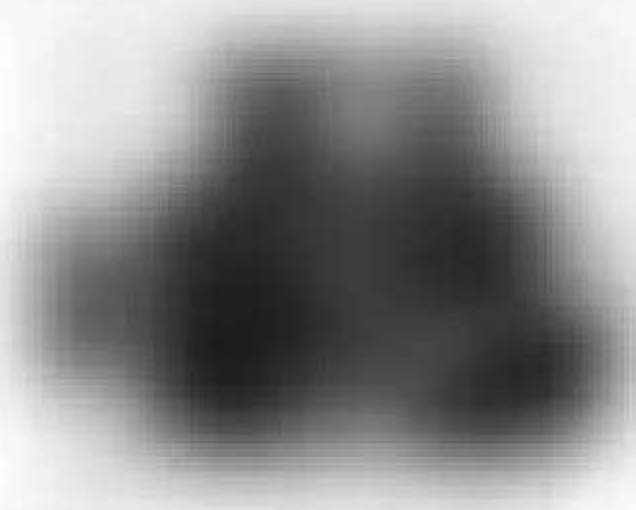




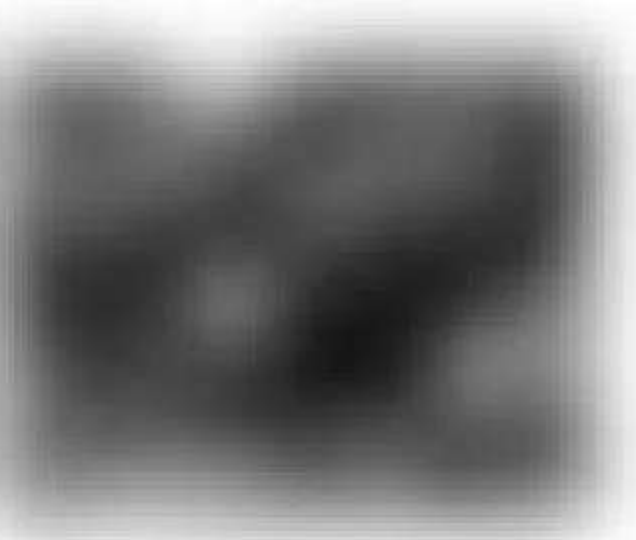
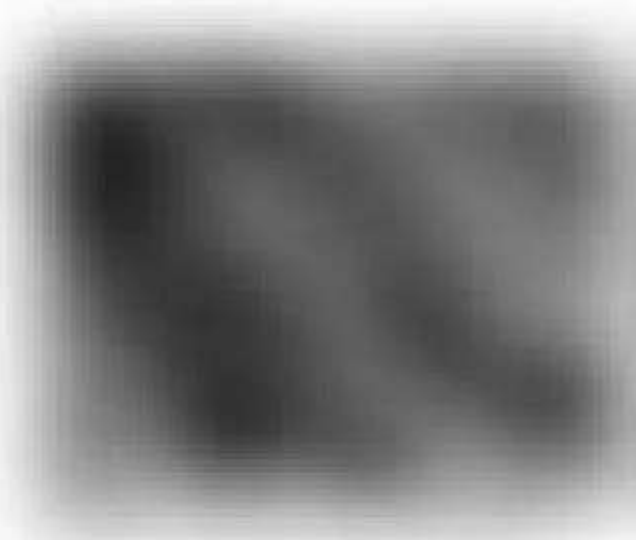








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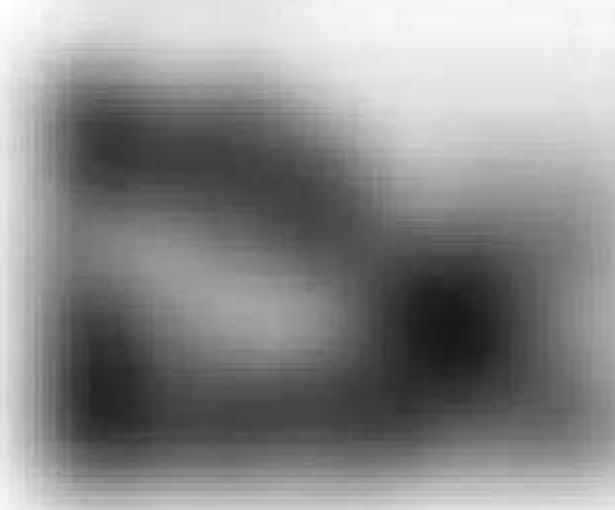
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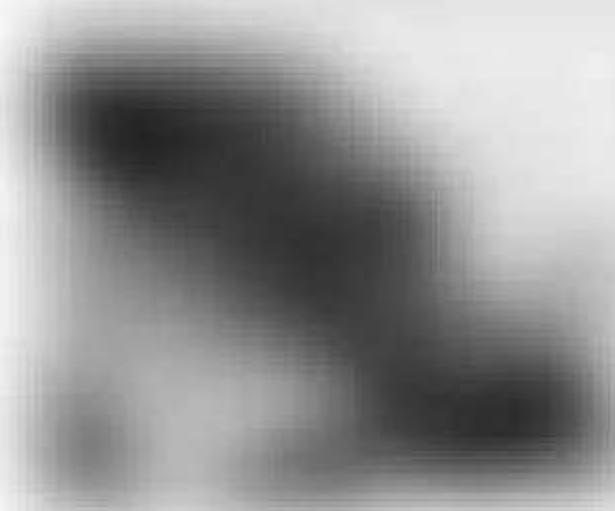


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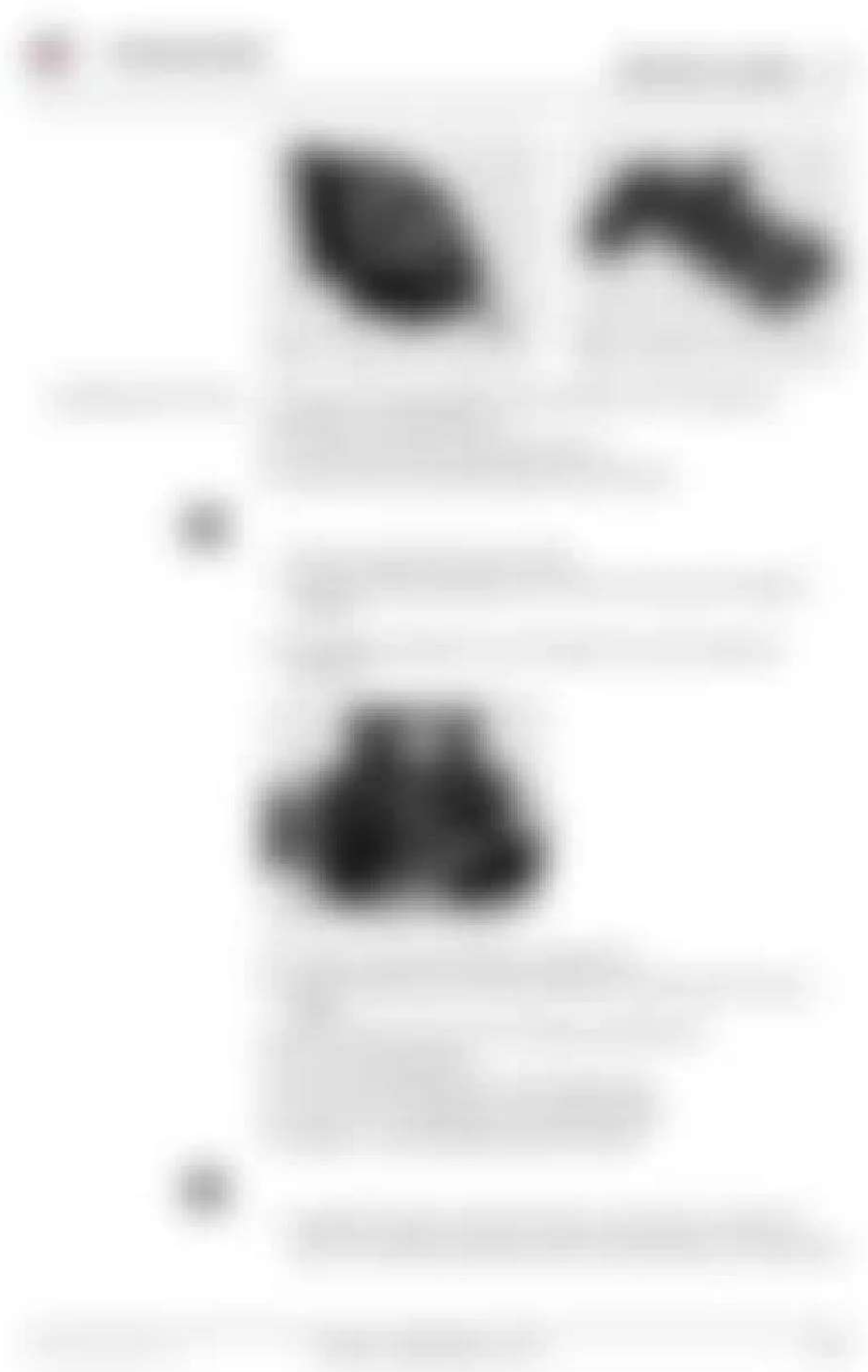


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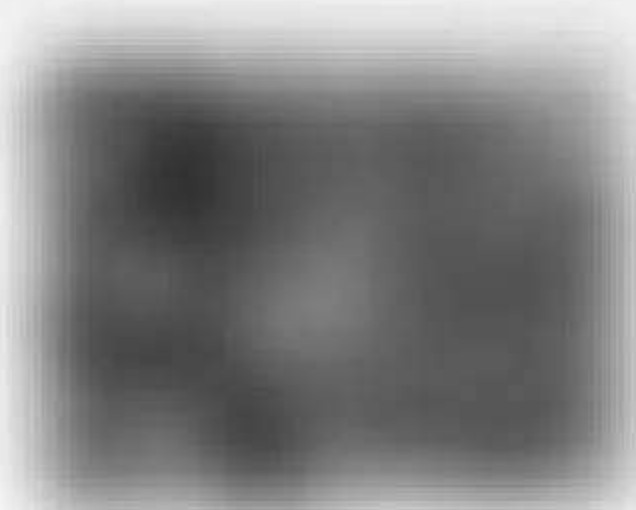


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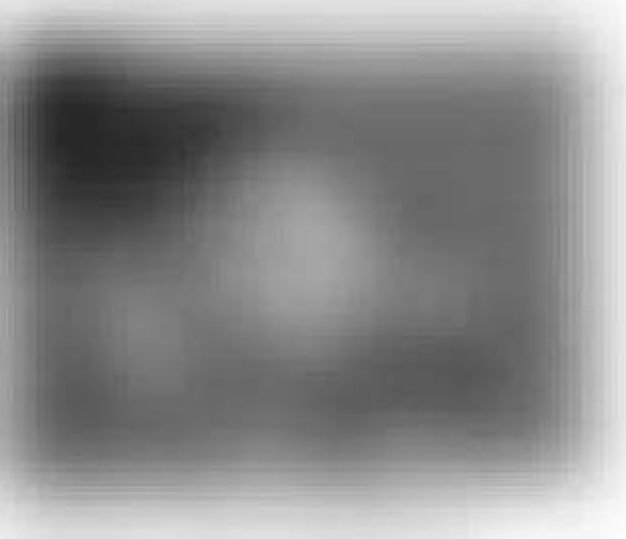
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2. Objectives  
3. Methodology  
4. Results  
5. Discussion  
6. Conclusion

The study was conducted in a laboratory setting. The results showed that the system was able to perform the required tasks. The discussion highlights the limitations of the current system and suggests areas for future research. The conclusion states that the system is a promising solution for the problem at hand.

References  
1. Smith, J. (2010). "The Role of AI in Modern Manufacturing." *Journal of Industrial Engineering*, 15(2), 123-135.  
2. Doe, A. (2015). "Optimizing Production Processes with Machine Learning." *International Journal of Production Research*, 20(1), 45-60.  
3. Lee, S. (2018). "Predictive Maintenance in Industry 4.0." *IEEE Transactions on Industrial Informatics*, 14(3), 1123-1135.

Appendix A: Data Collection  
Appendix B: System Architecture  
Appendix C: Test Results





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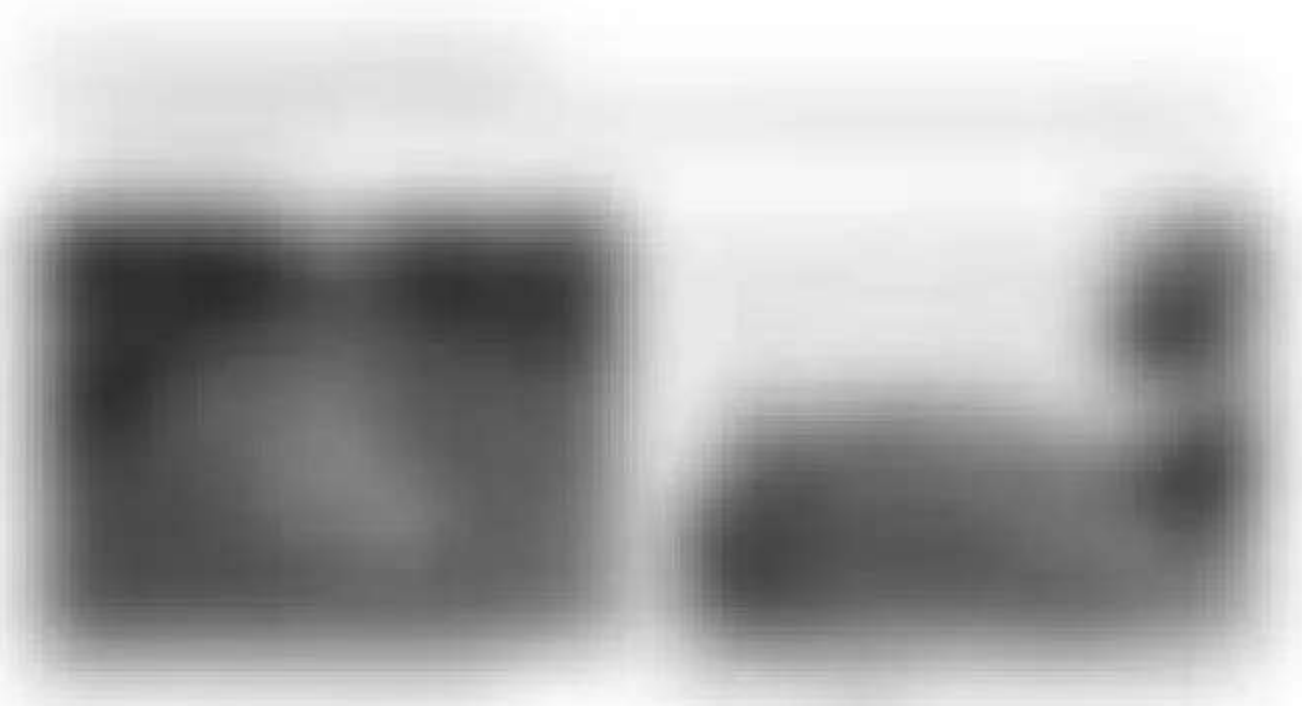
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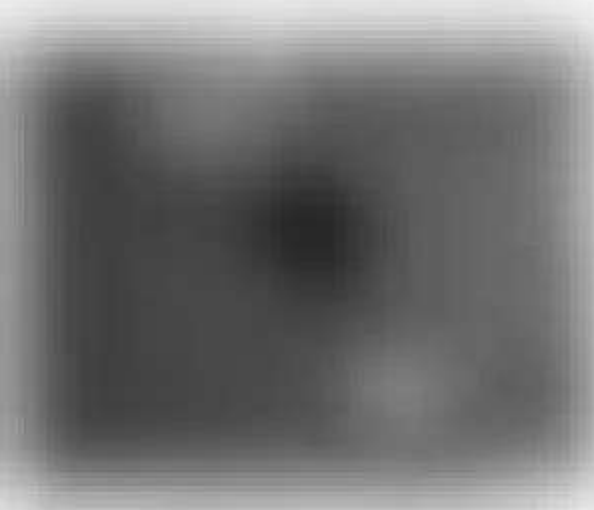
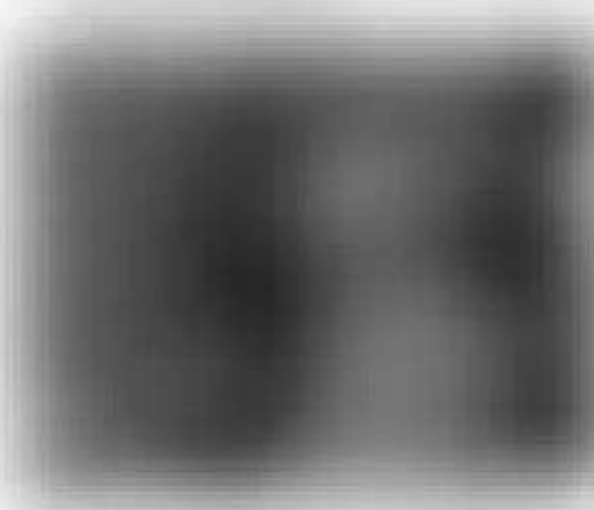


Page 1 of 1



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Section 1: Introduction

Section 2: Main Content

Section 3: Details

Section 4: Further Information

Section 5: Conclusion

Section 6: Appendix

Section 7: References

Section 8: Contact Us

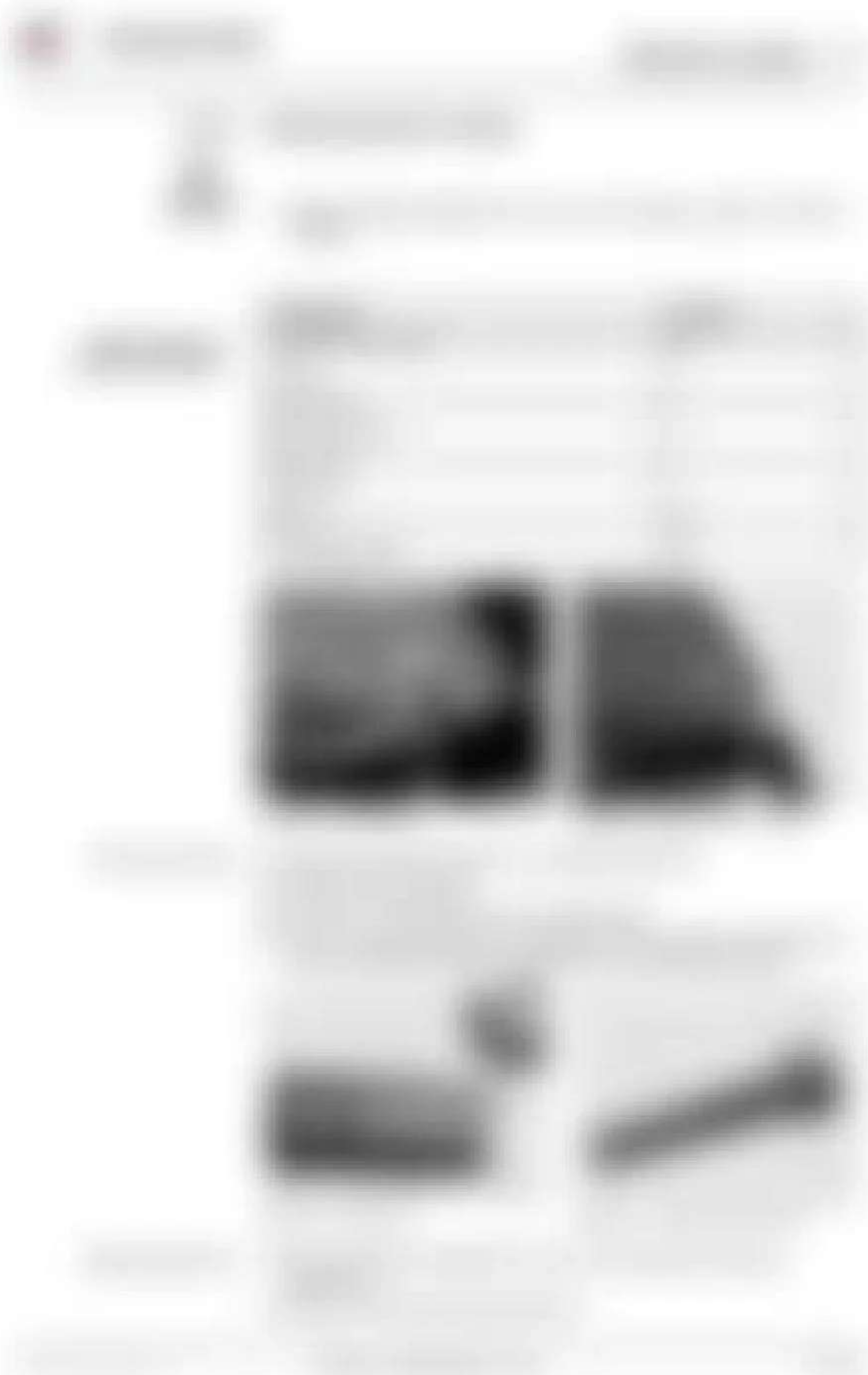
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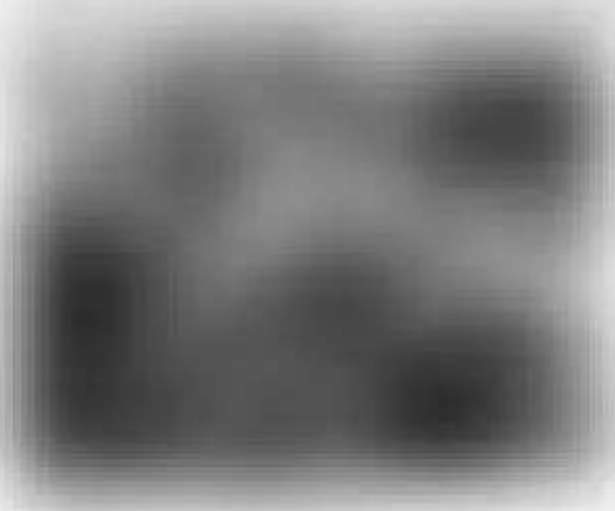
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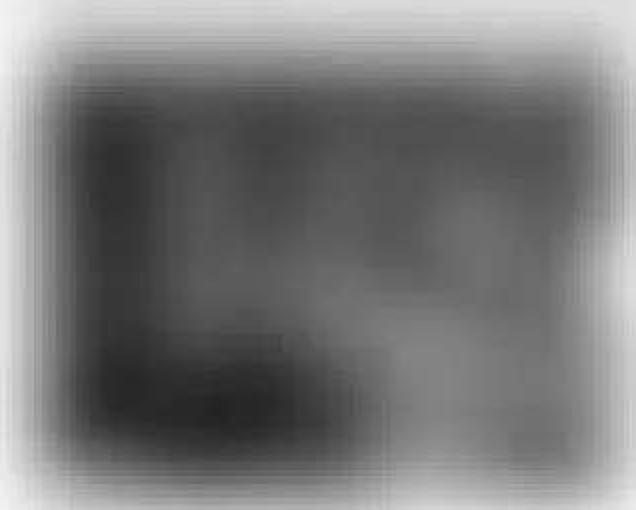








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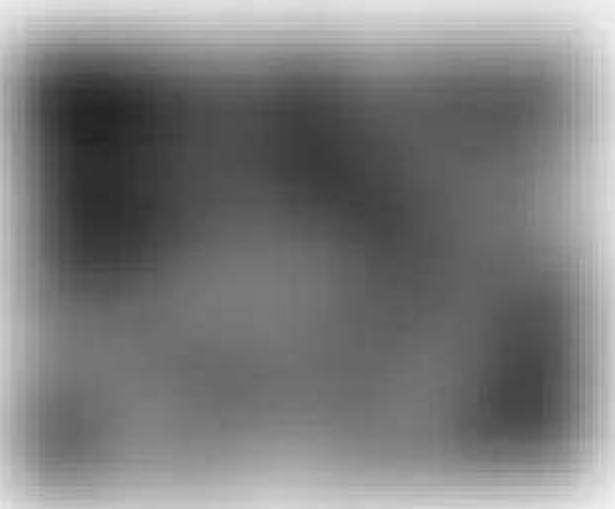
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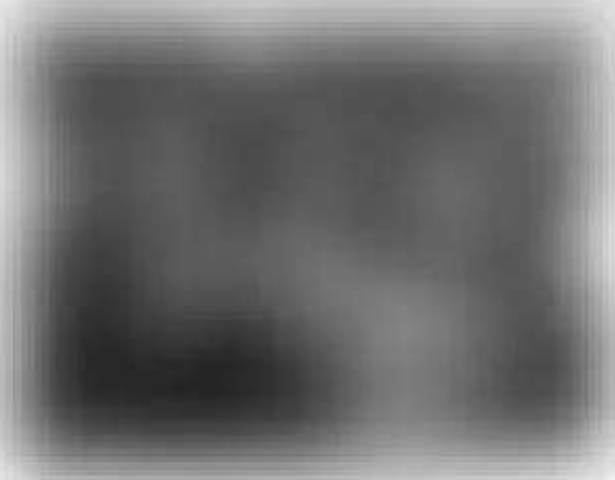




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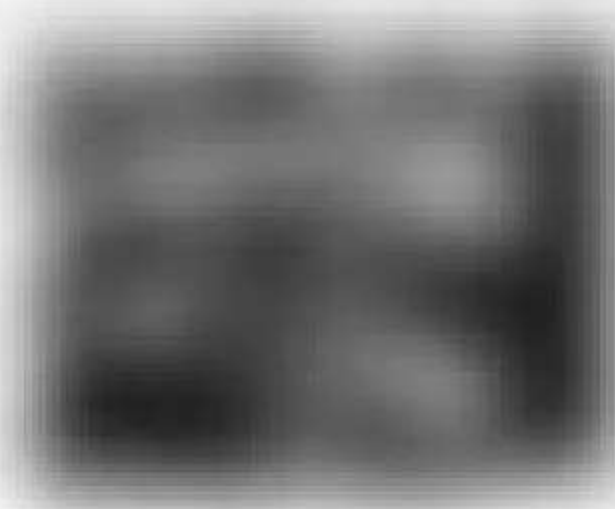
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Section 2

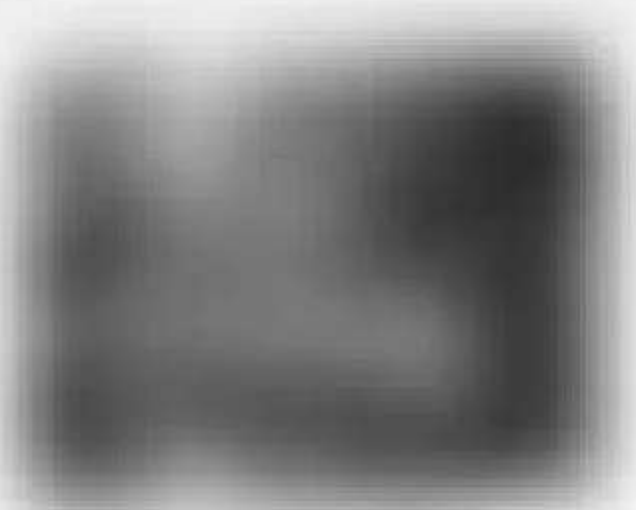
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Section 3

Main body of text, paragraph 3

Section 4

Main body of text, paragraph 4



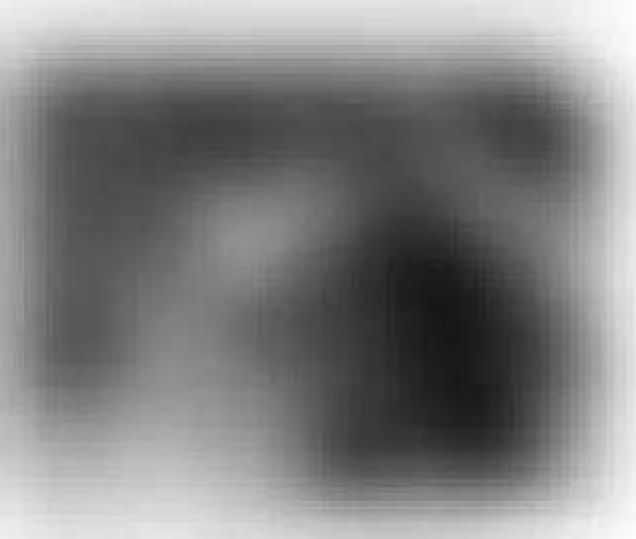
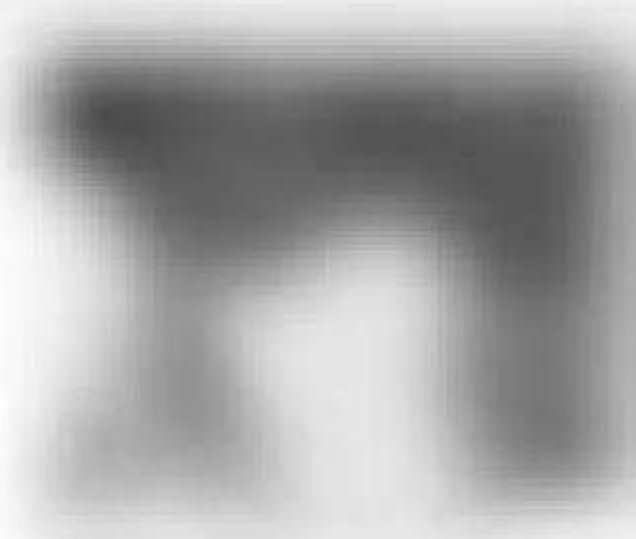


Figure 1

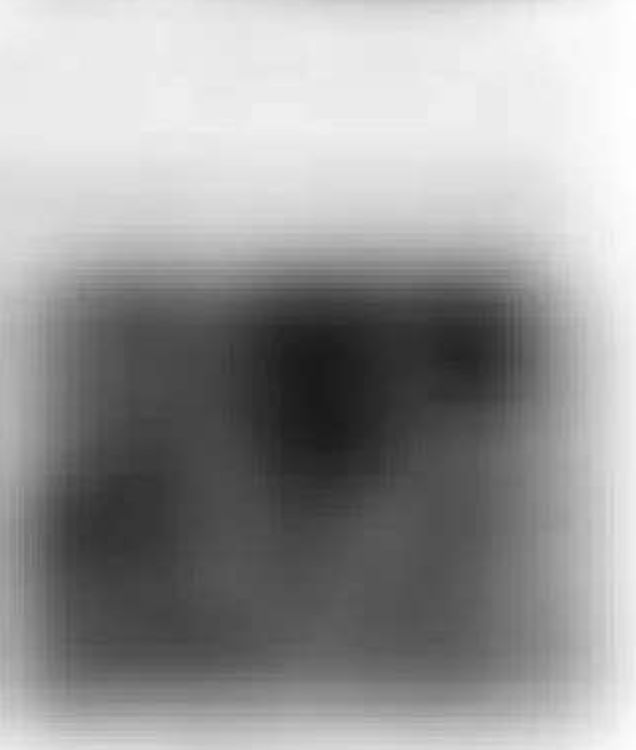
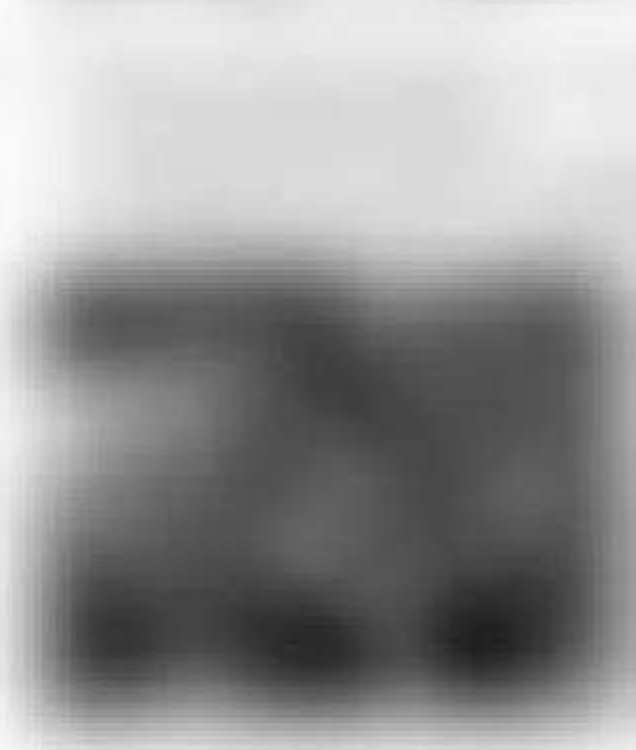


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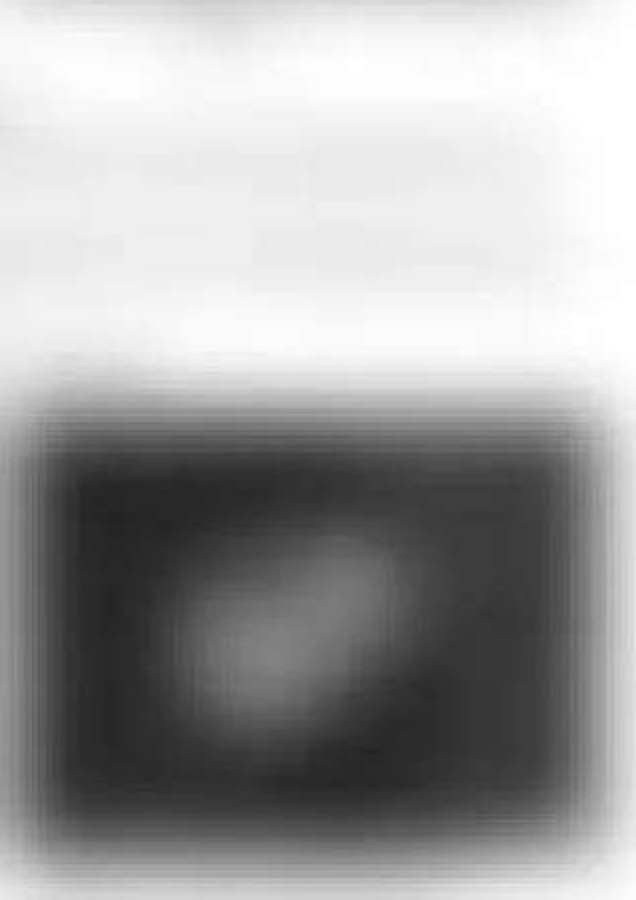
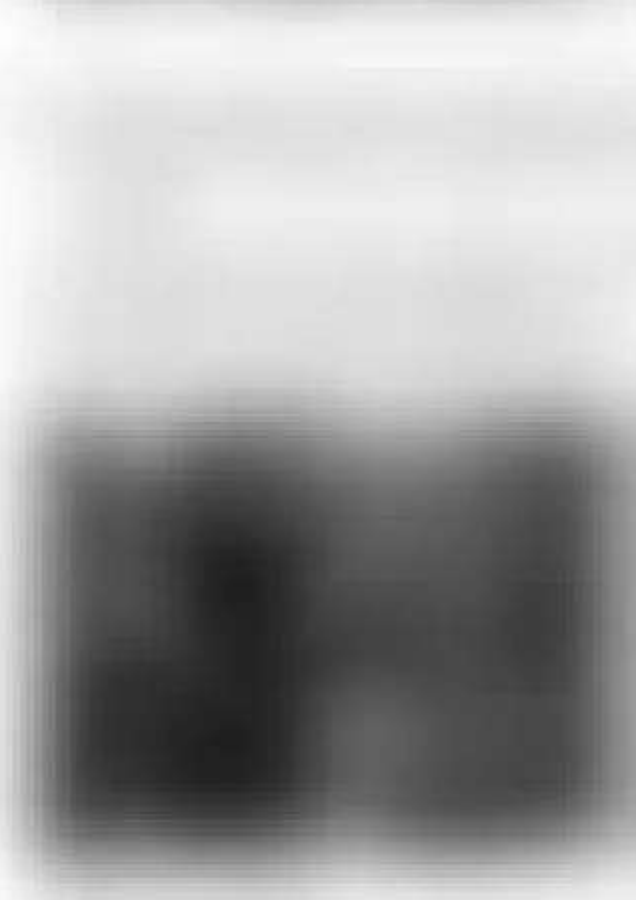
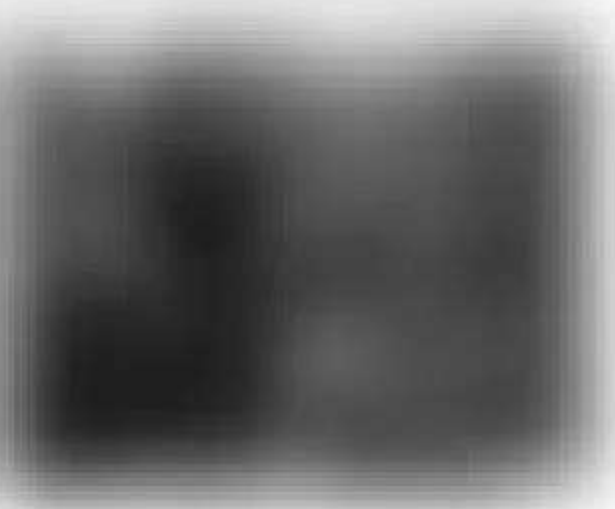
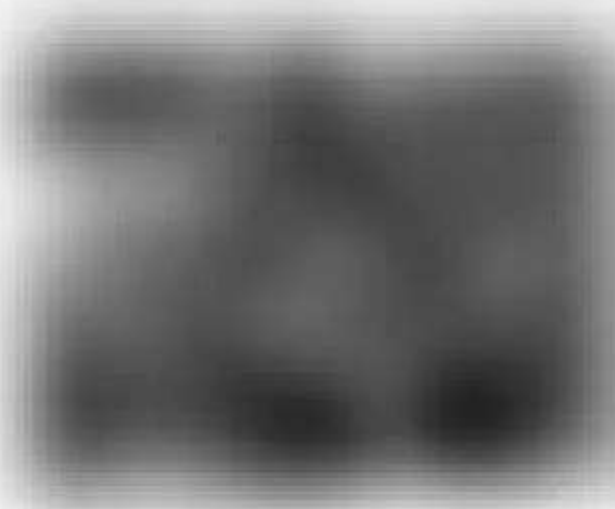


Figure 3







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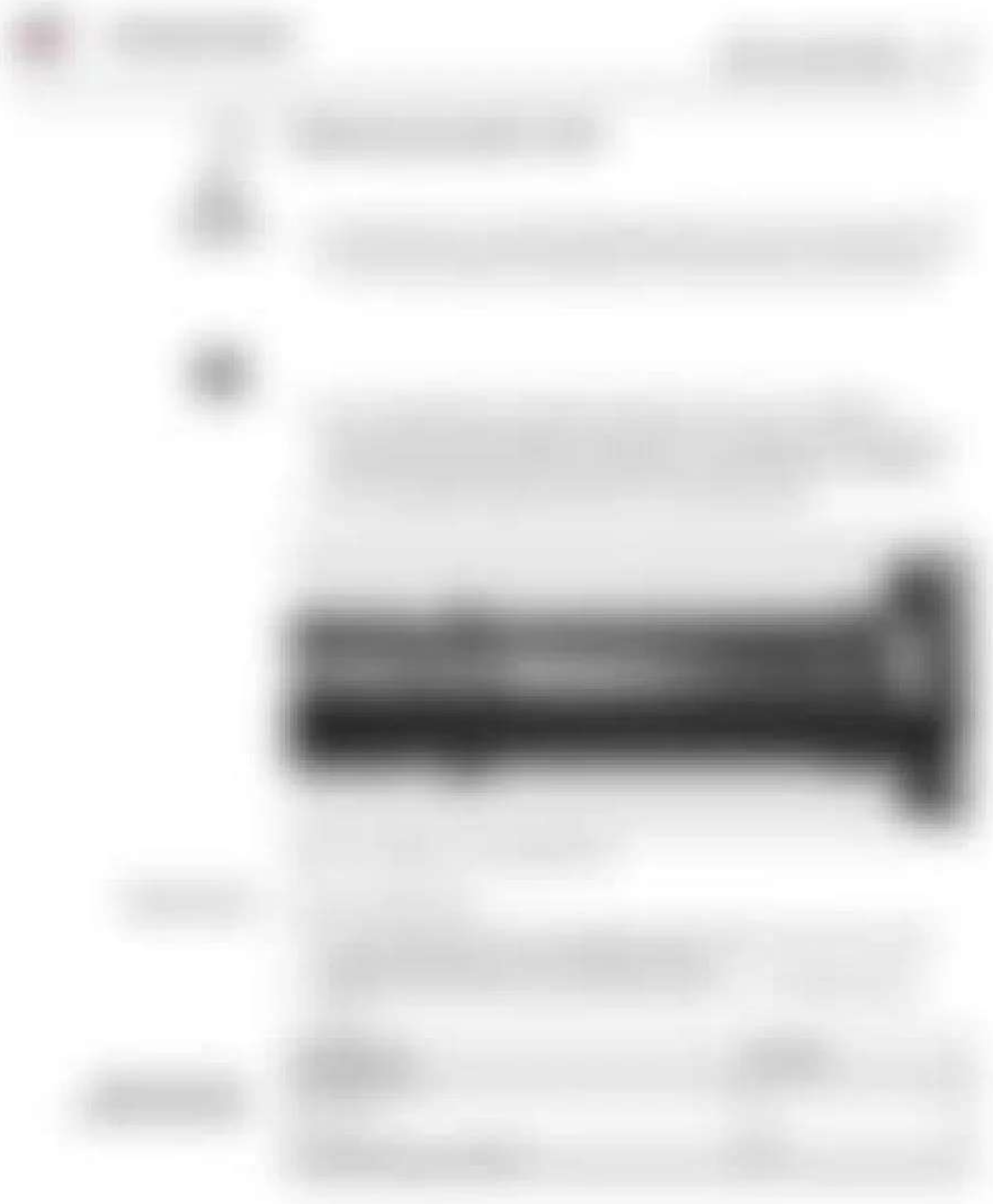
















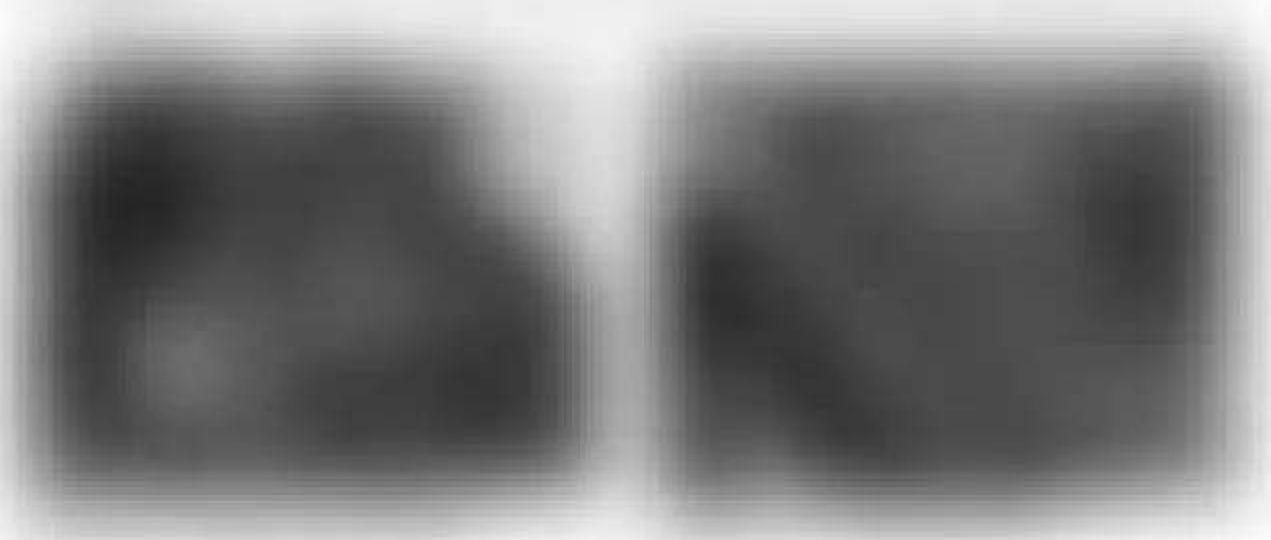
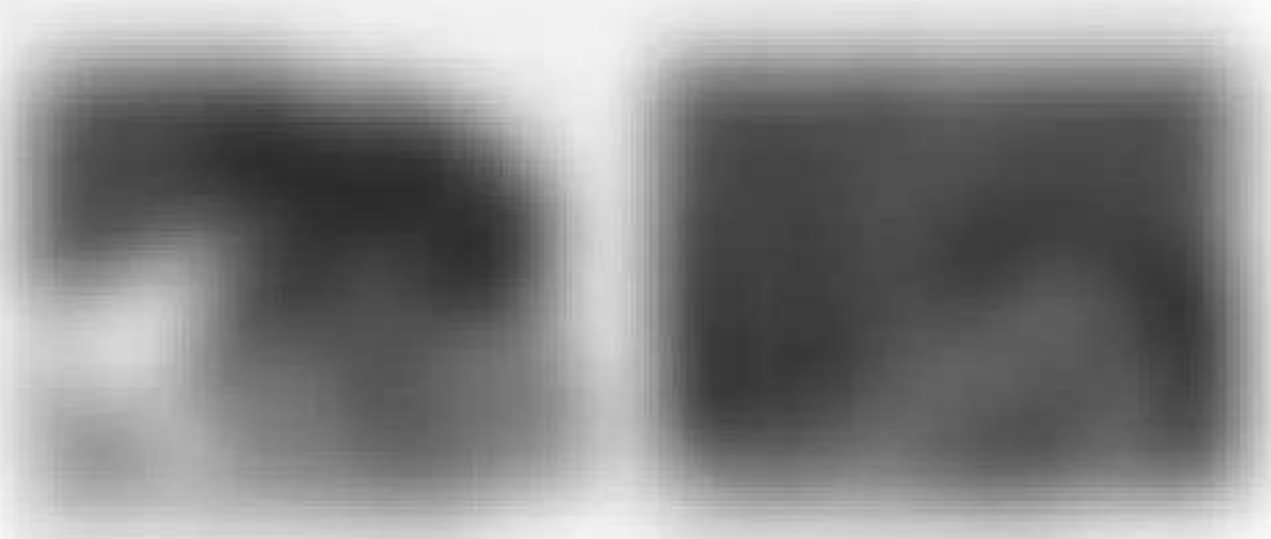






Figure 1



Figure 2



The following steps should be followed to ensure proper installation of the engine cover:

1. Remove the engine cover from the vehicle.
2. Inspect the engine cover for any damage or wear.
3. Clean the engine cover with a clean cloth.
4. Apply a thin layer of oil to the engine cover.
5. Install the engine cover on the vehicle.
6. Tighten the bolts and nuts to the specified torque.
7. Check the engine cover for proper fit and operation.



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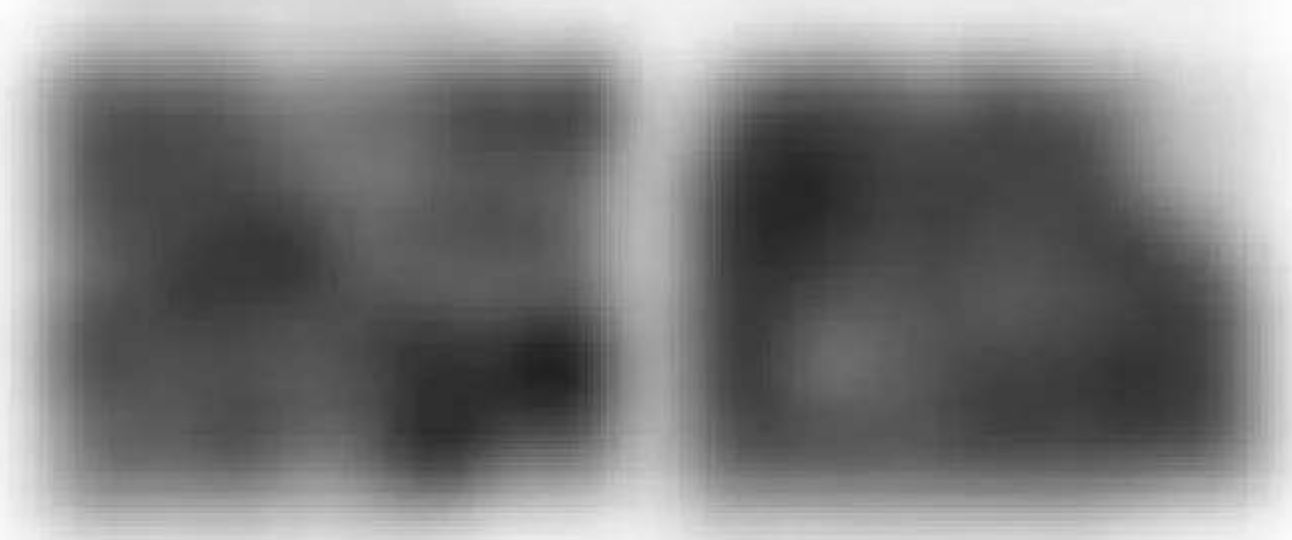
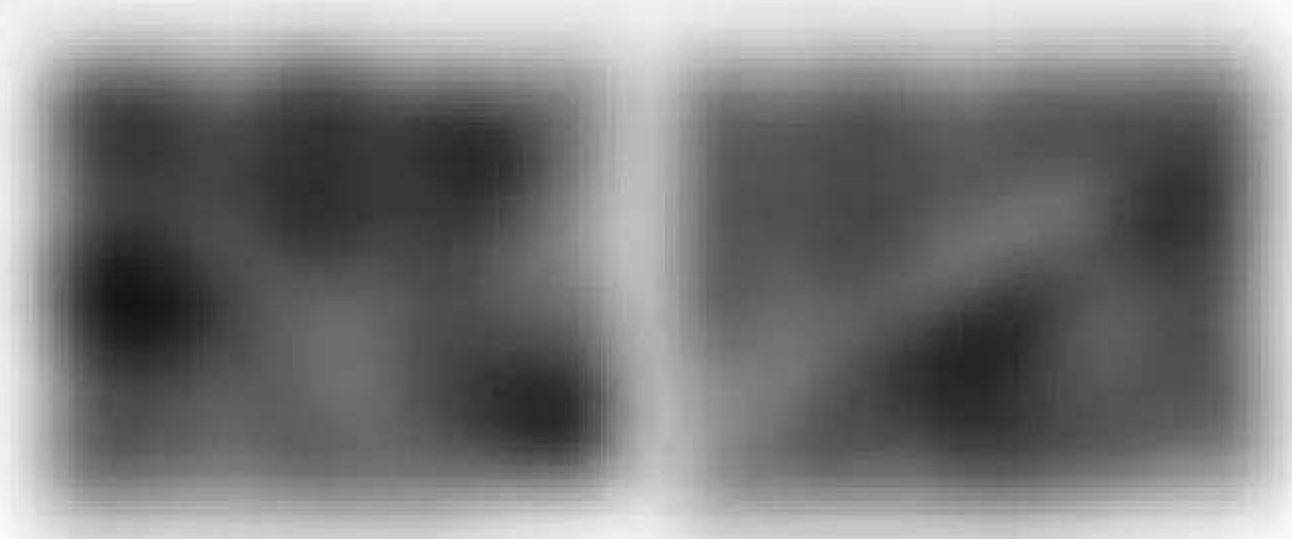


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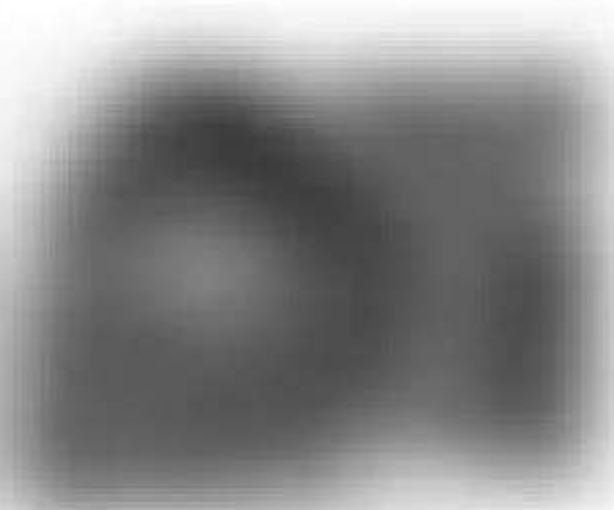
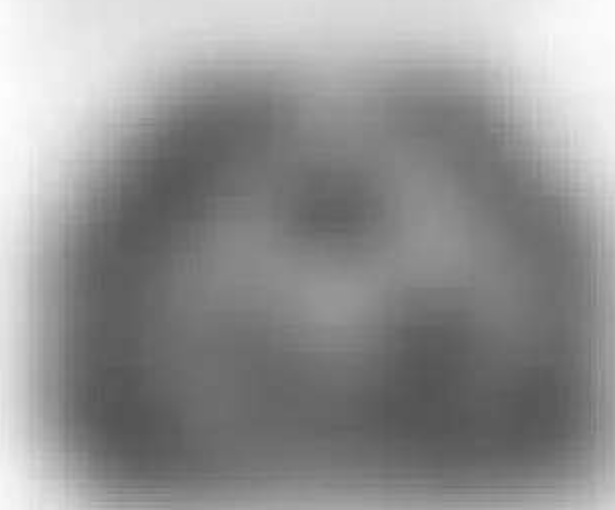
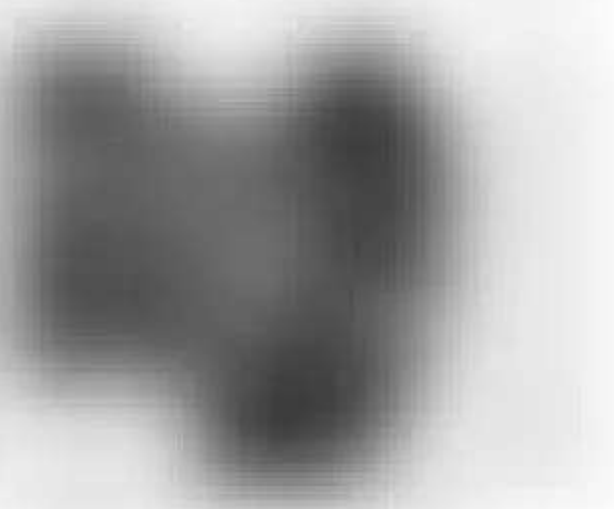
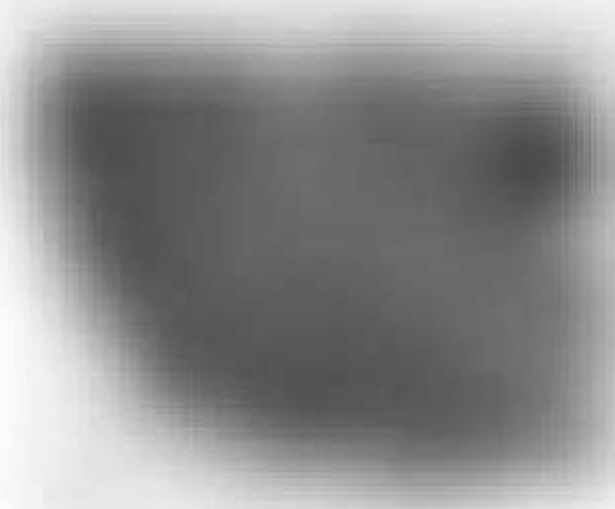
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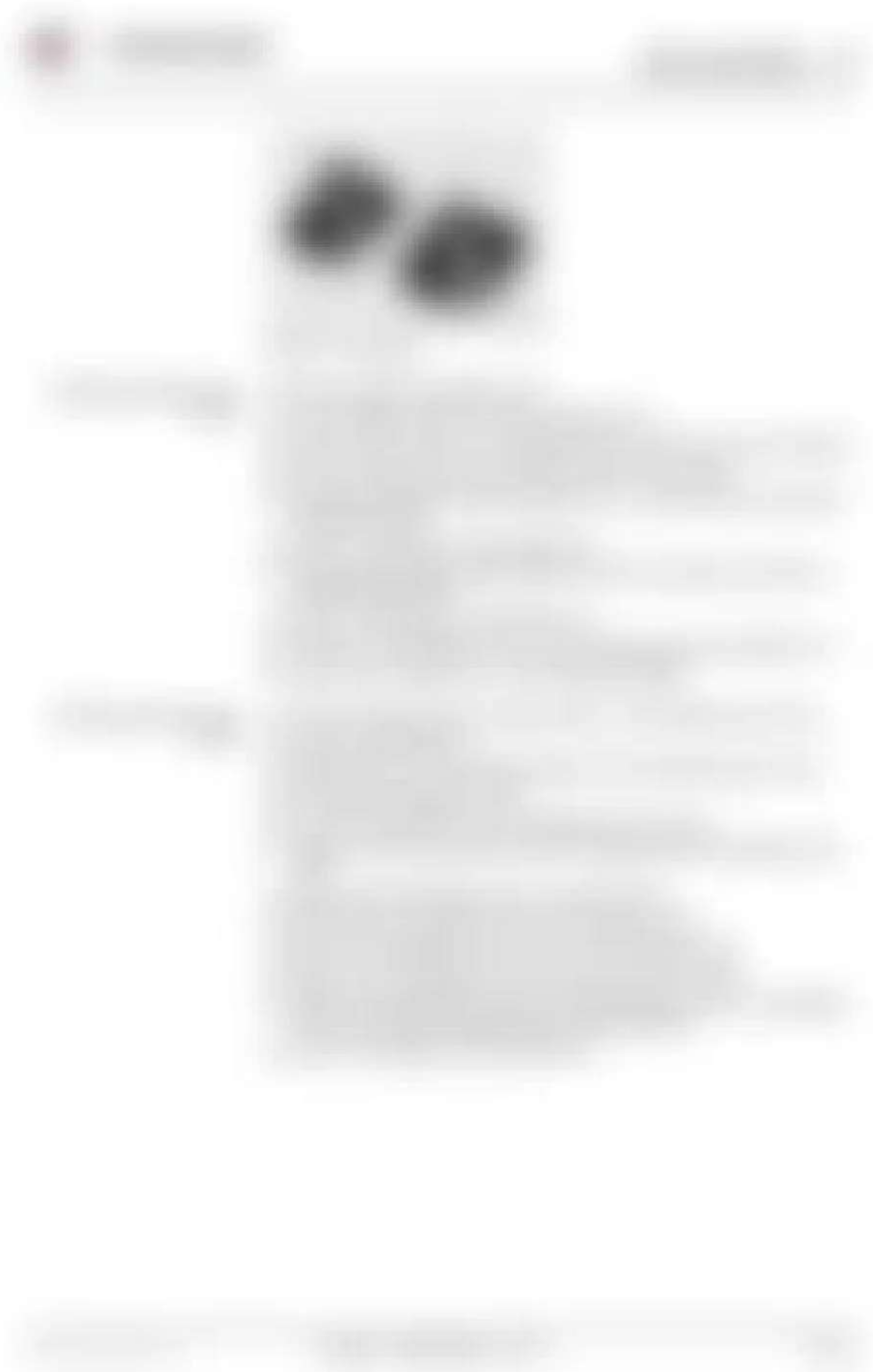
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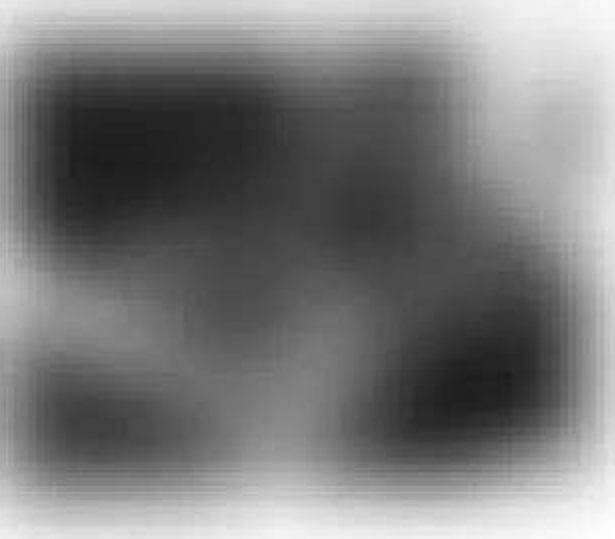
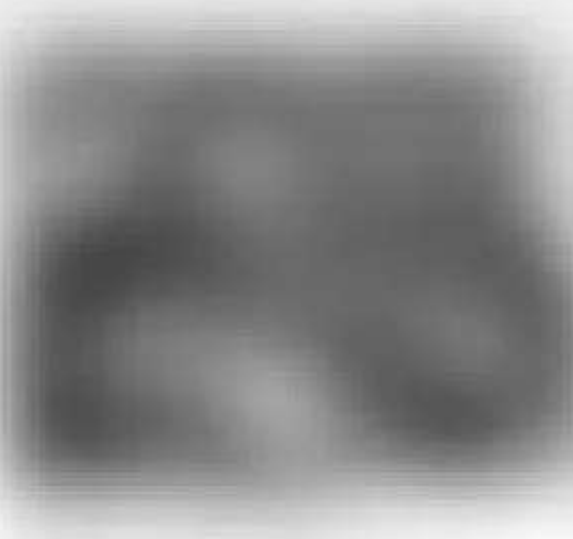












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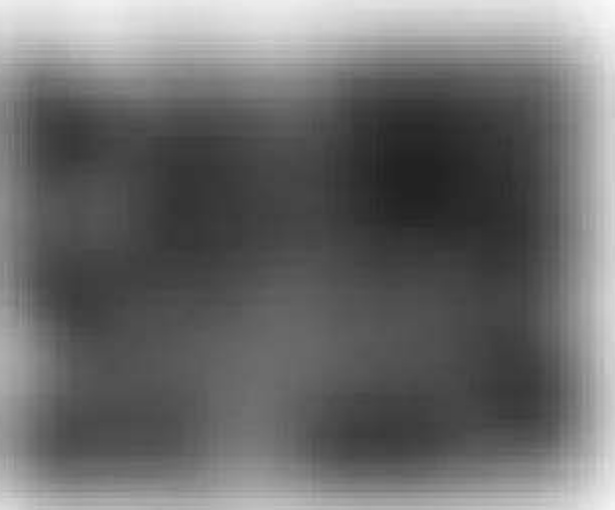
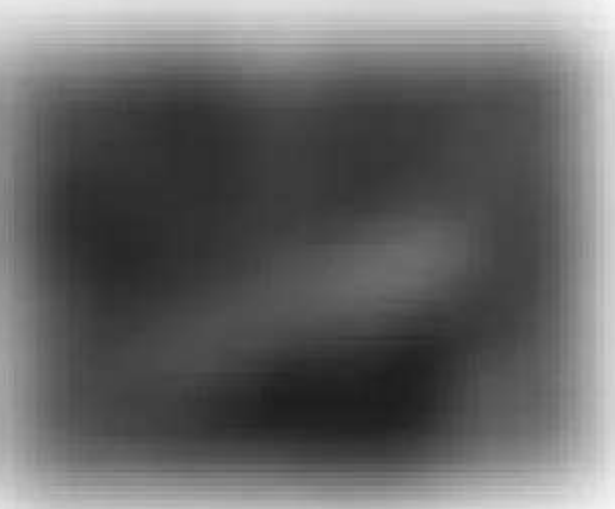


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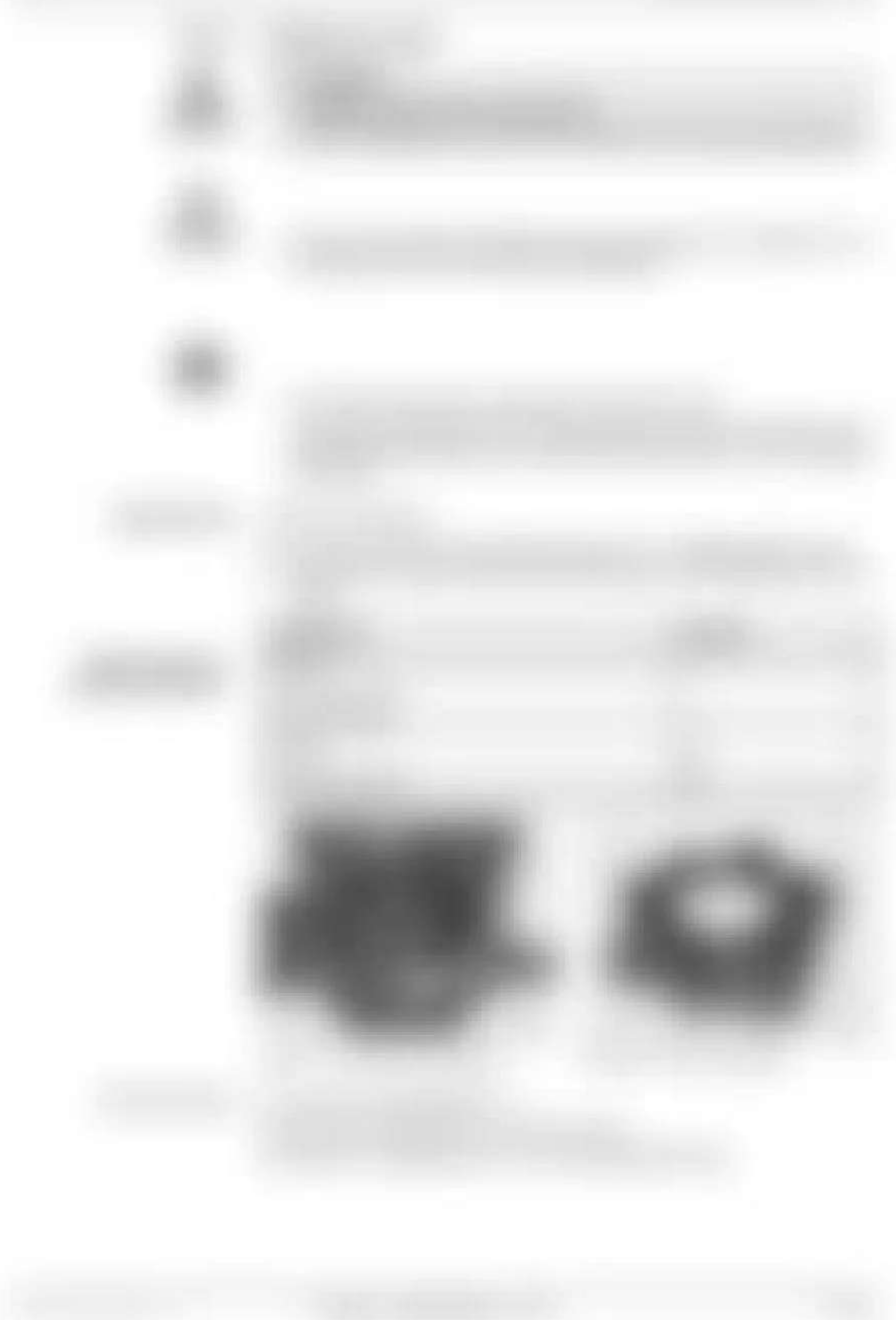
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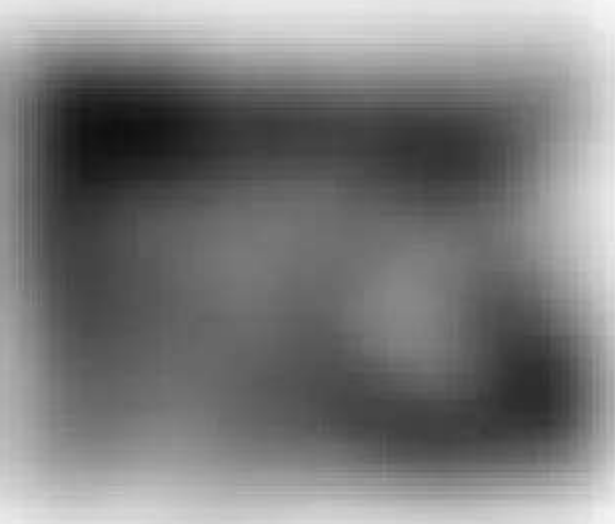
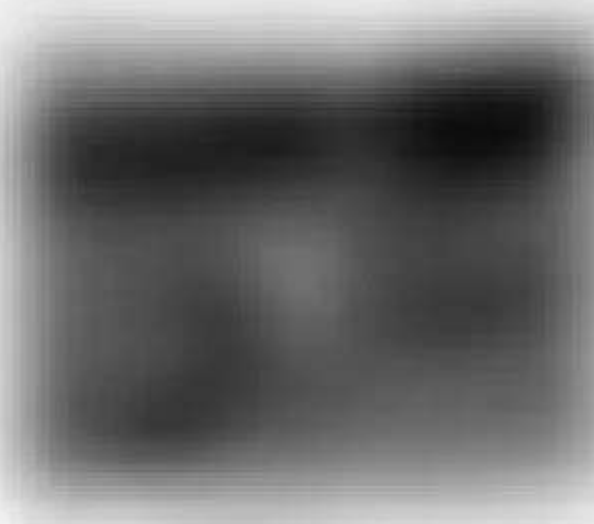












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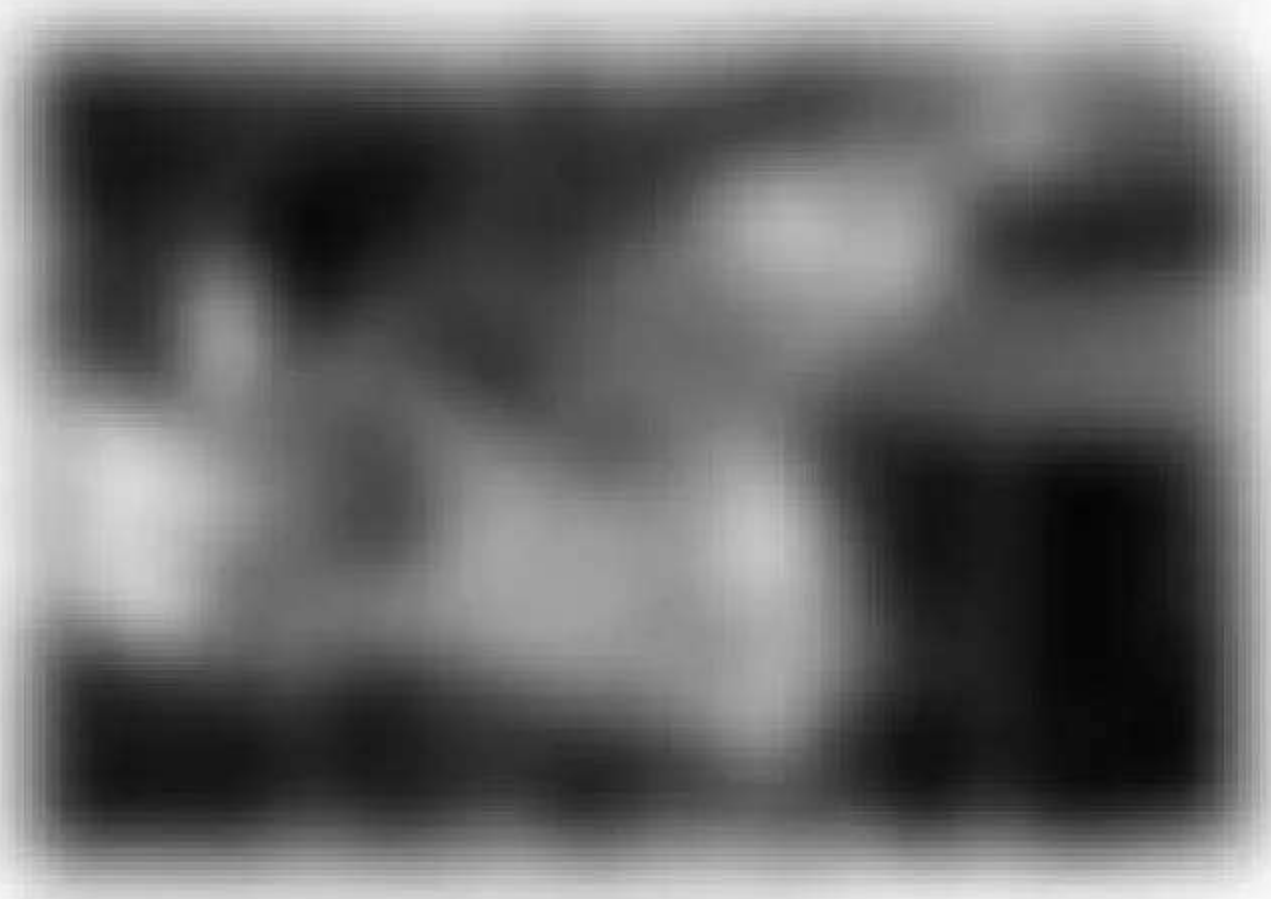












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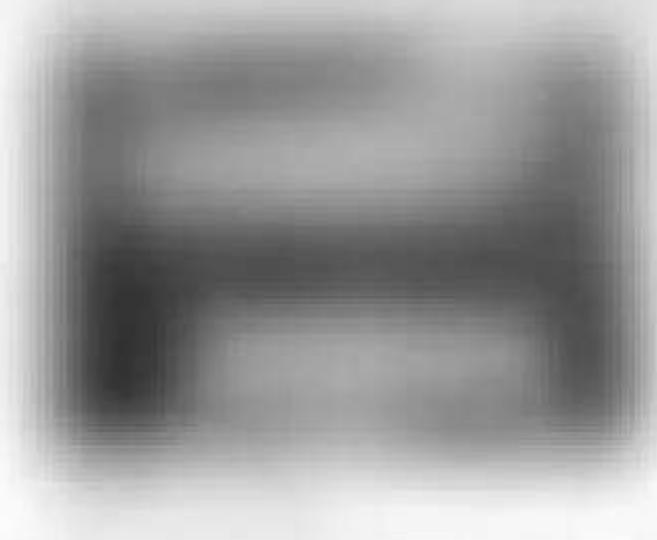


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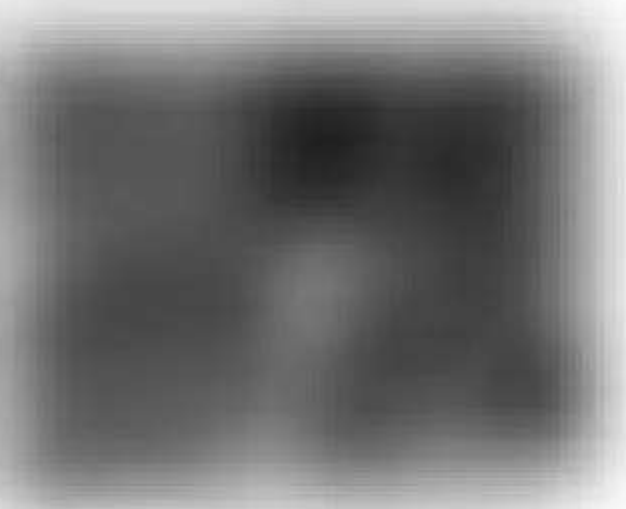
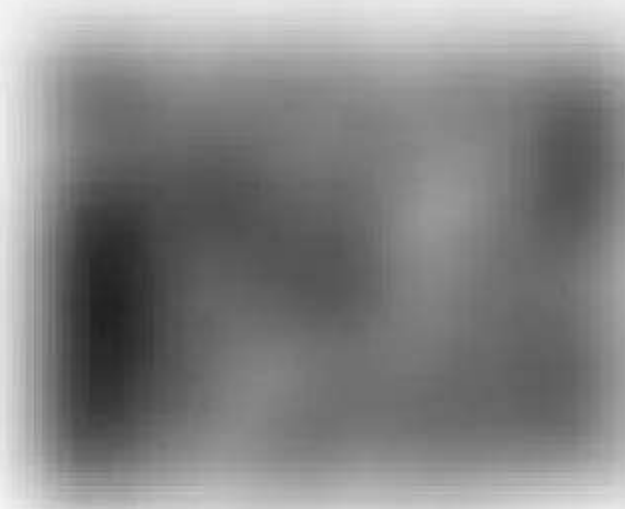
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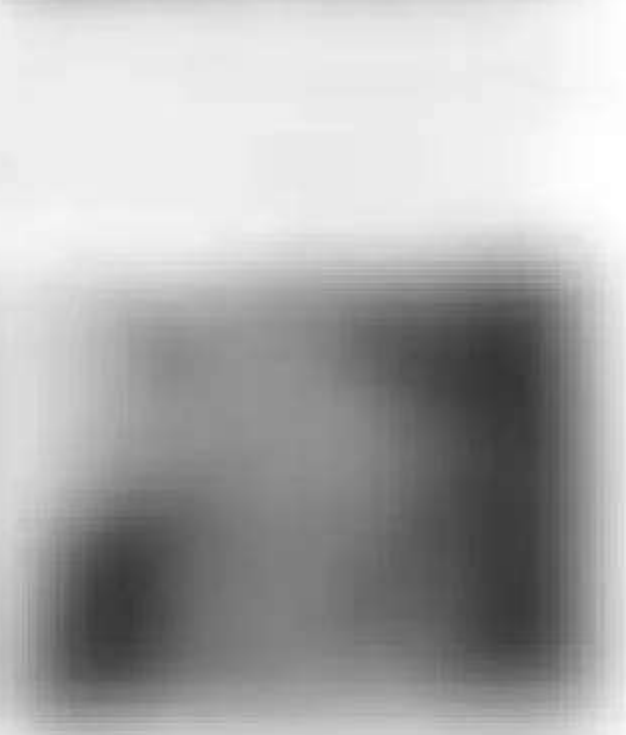
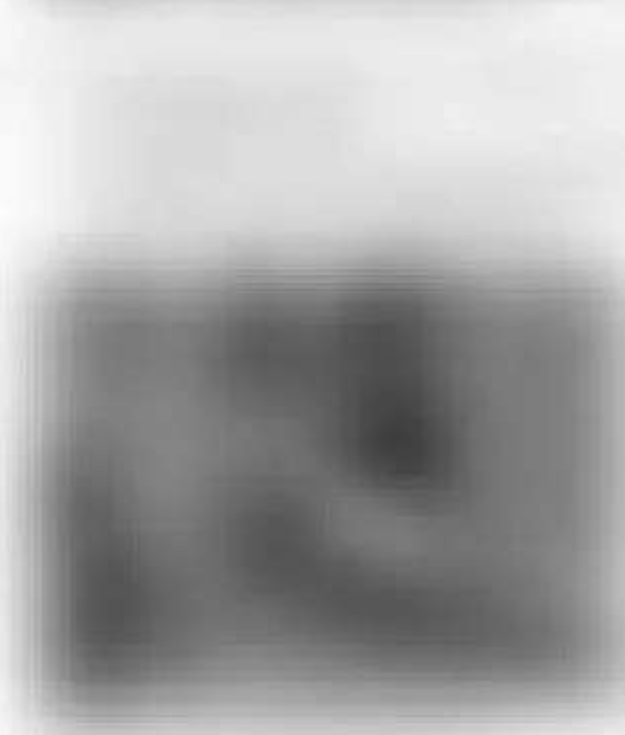
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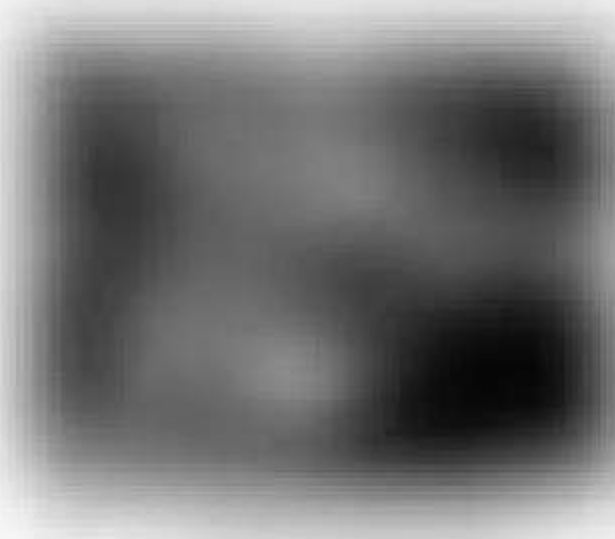
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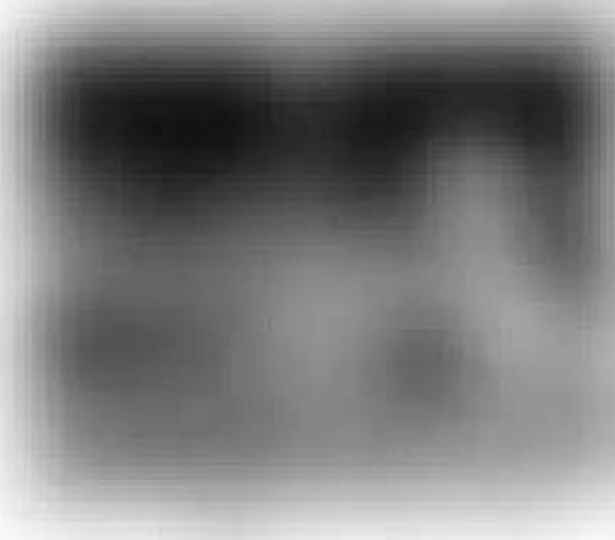






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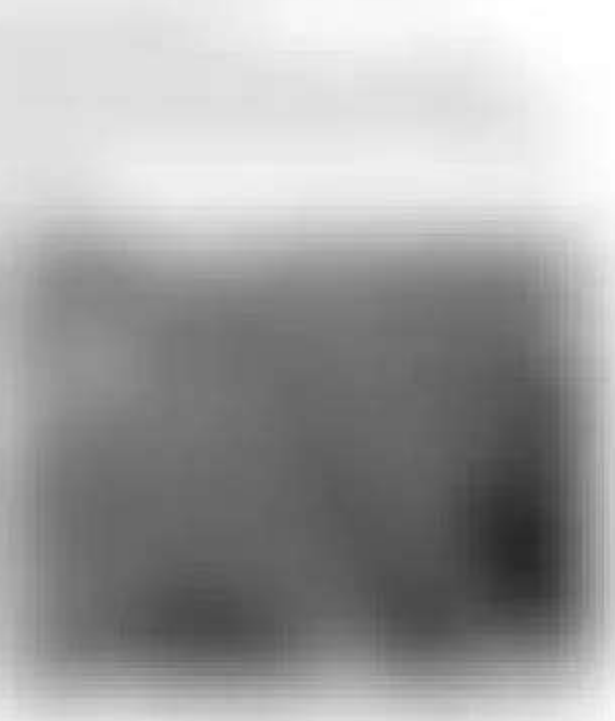
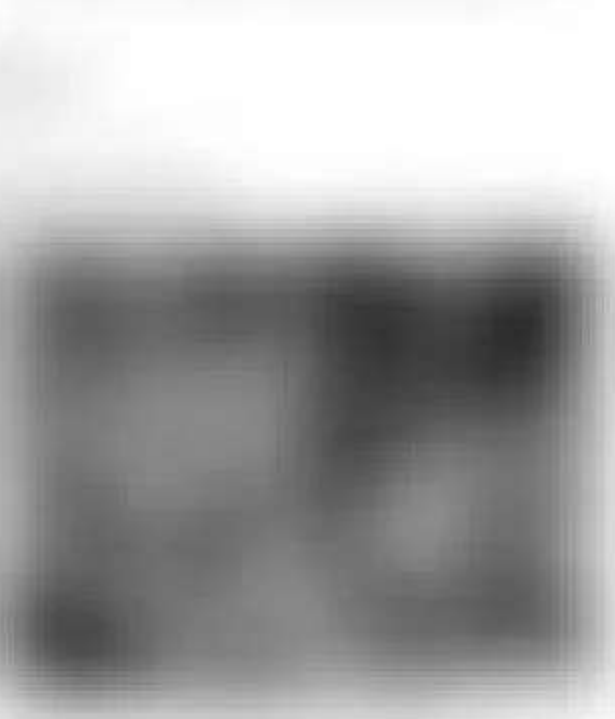
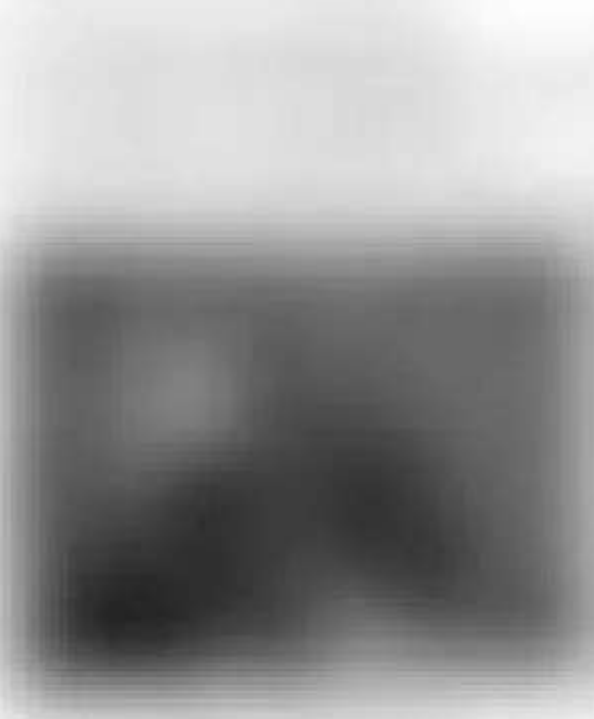
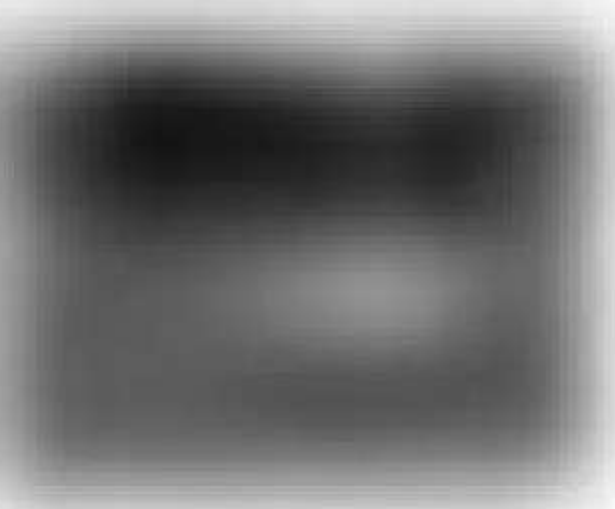
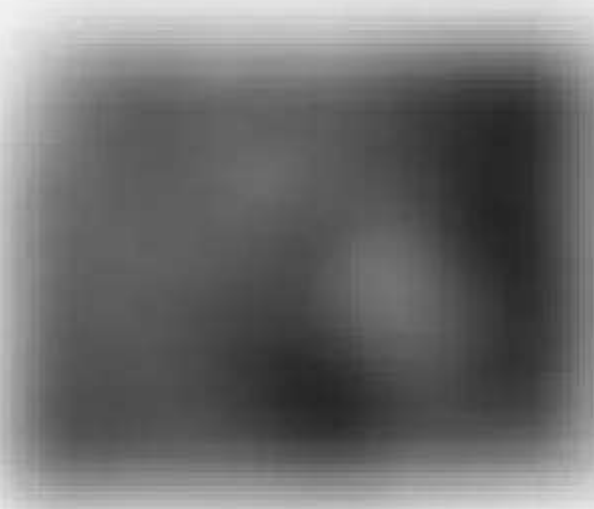
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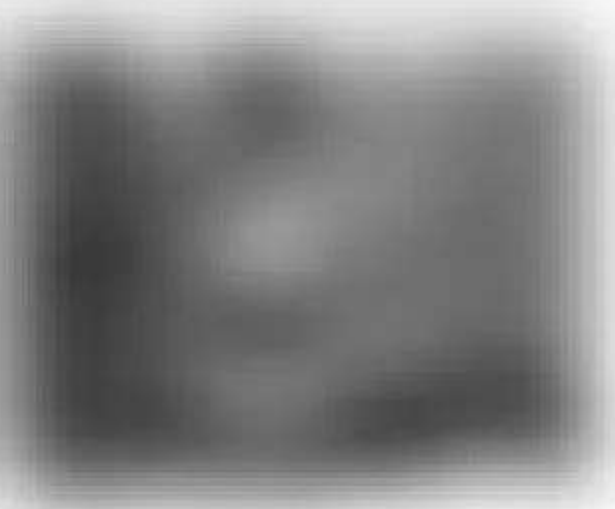
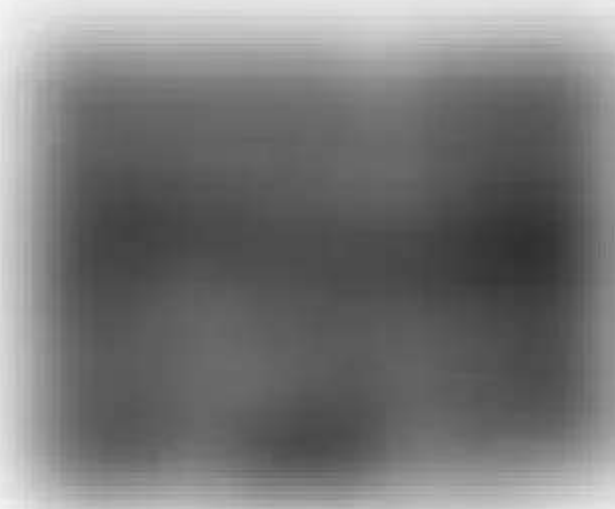












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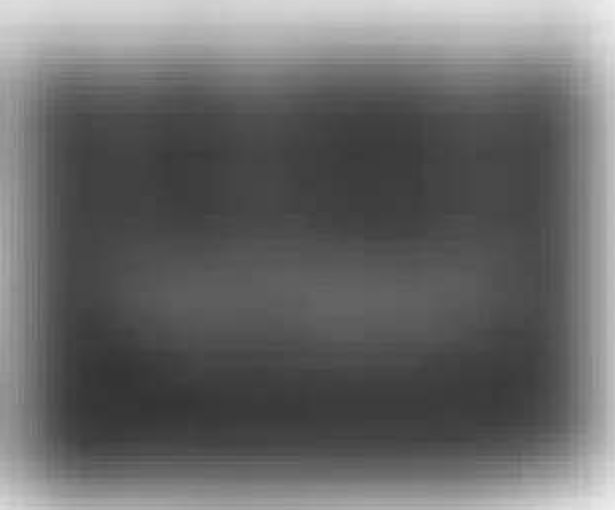
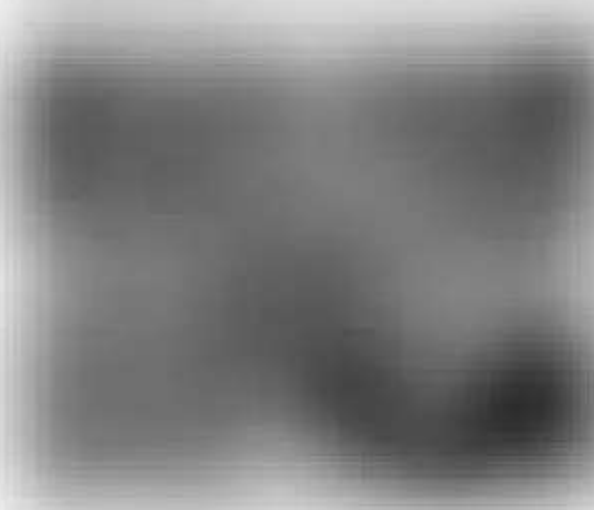
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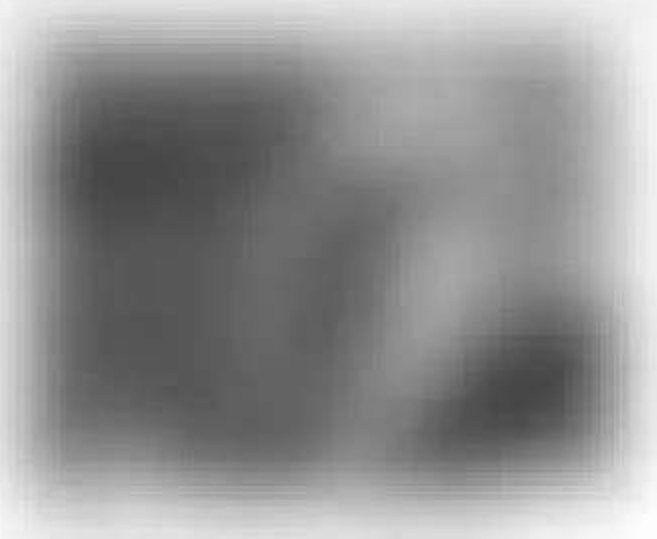


The following information is provided for your reference. It is intended to be a general guide and should not be used as a substitute for professional advice. The information is subject to change without notice. Please contact us if you have any questions or need further assistance.



For more information, please visit our website at <https://tractormanualz.com/>. We are committed to providing you with the best possible service and support. Thank you for your interest in our products and services.





Section 1: Introduction

Section 2: Main Content

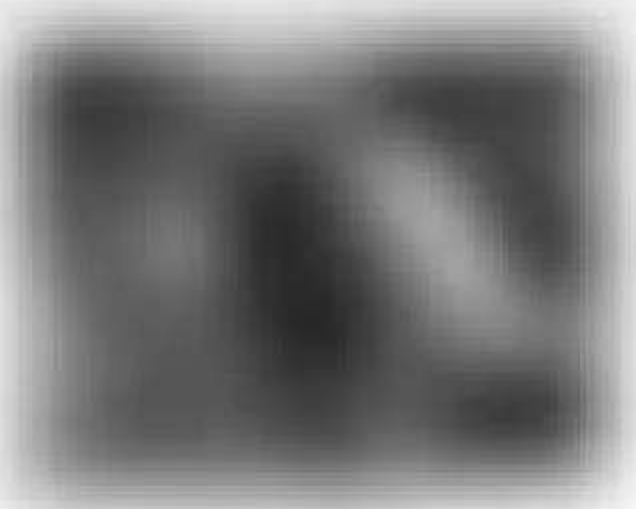
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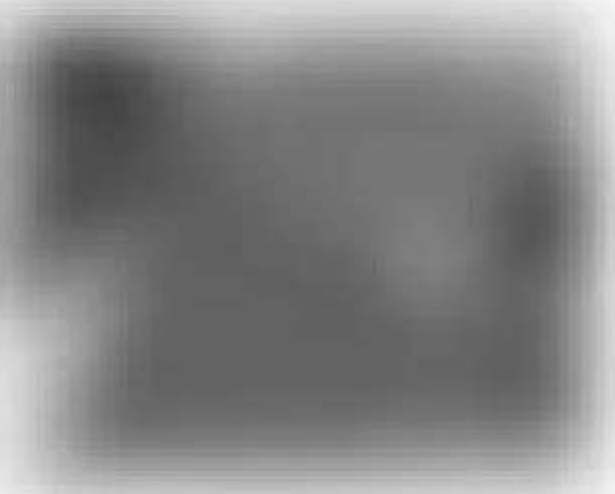


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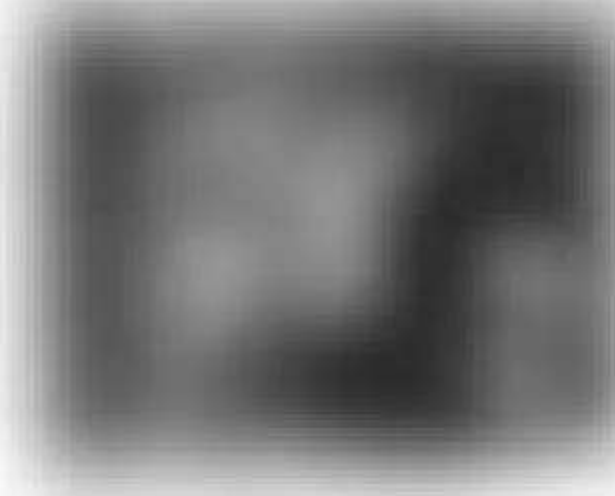
Section 5: Contact Us

Section 6: Footer





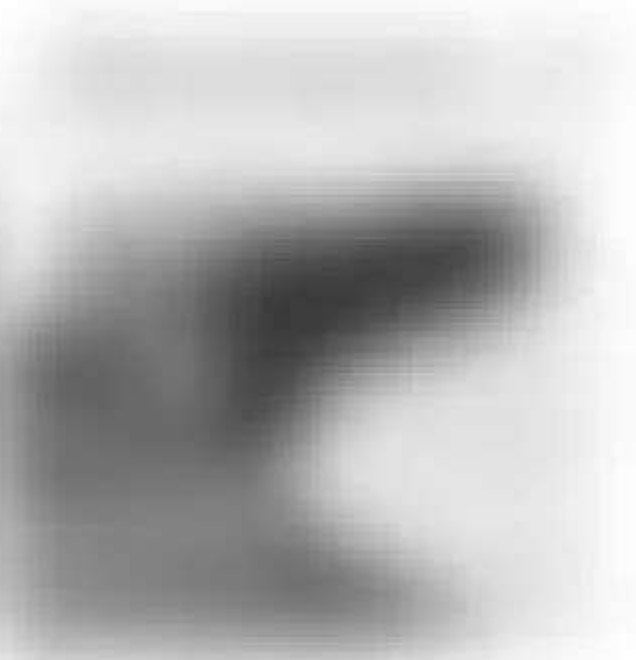
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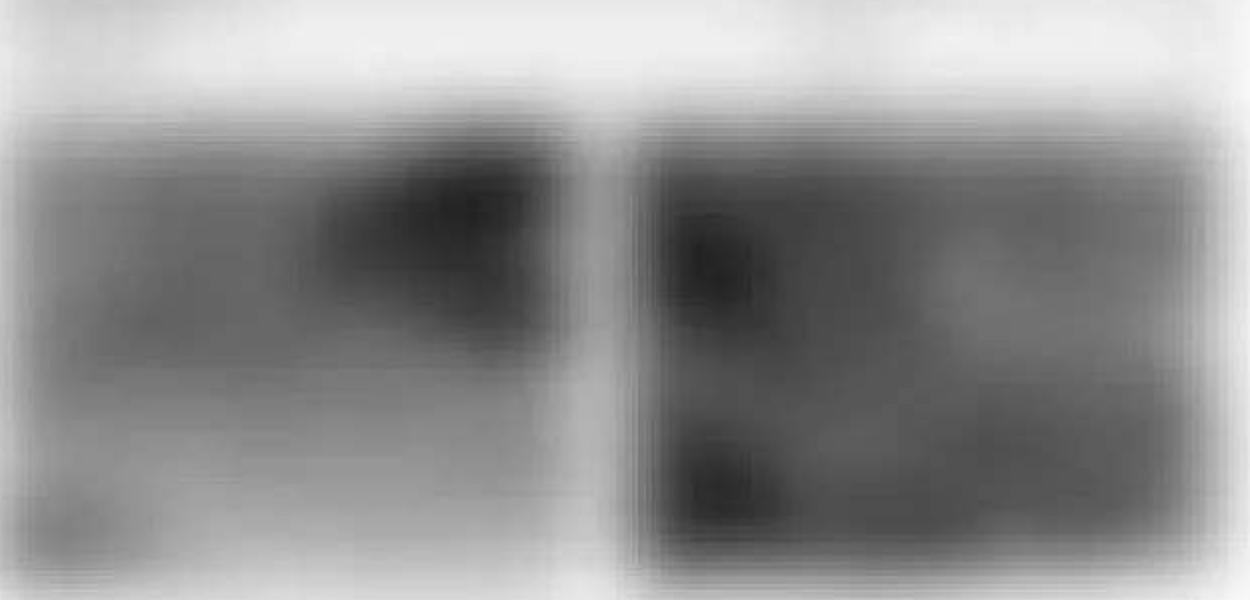
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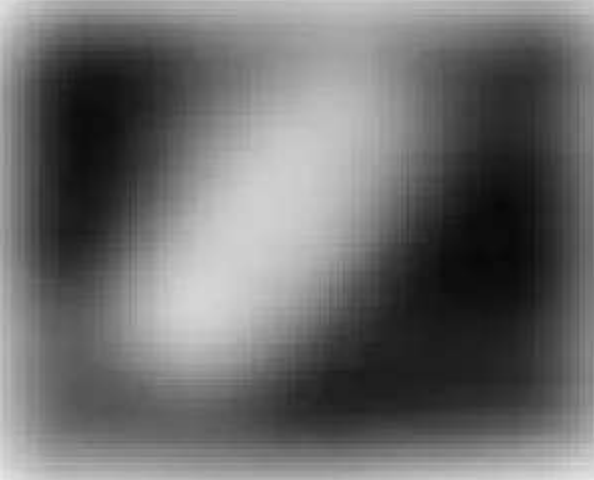
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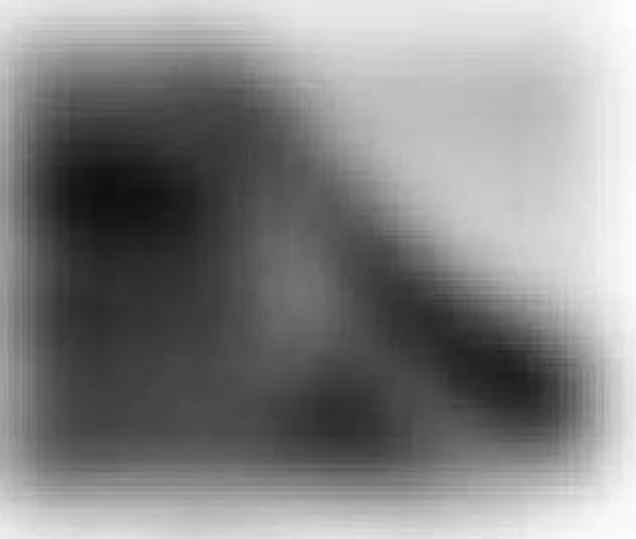
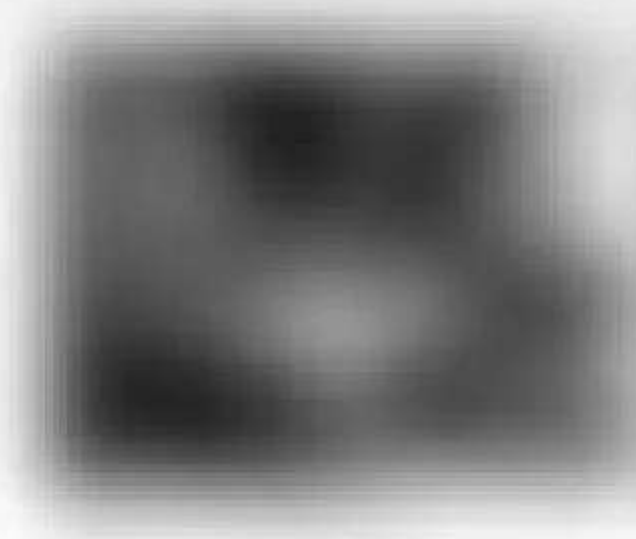


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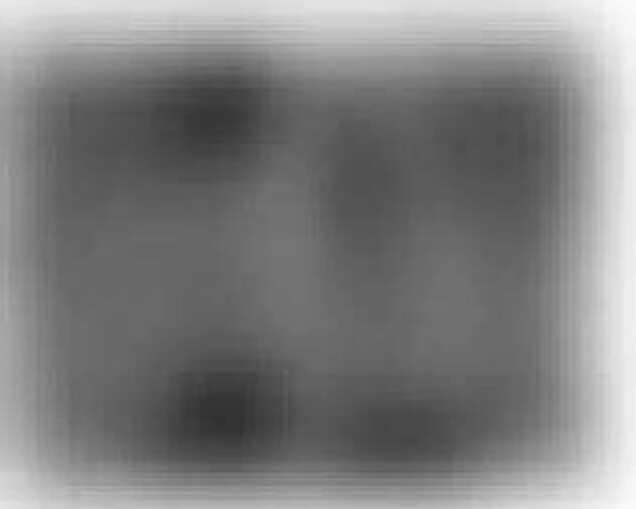
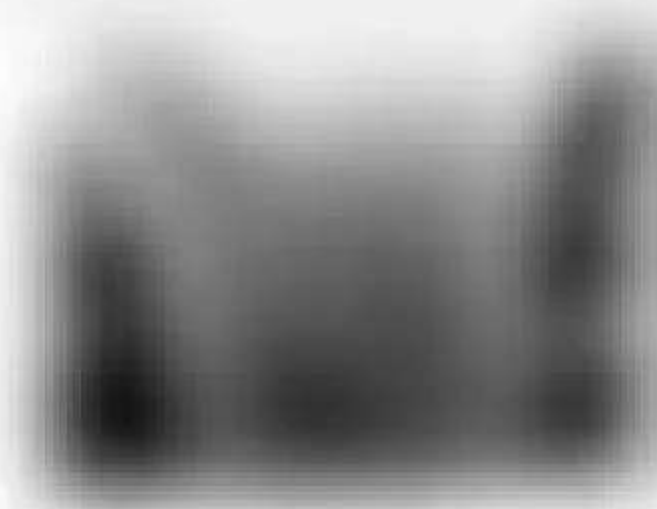


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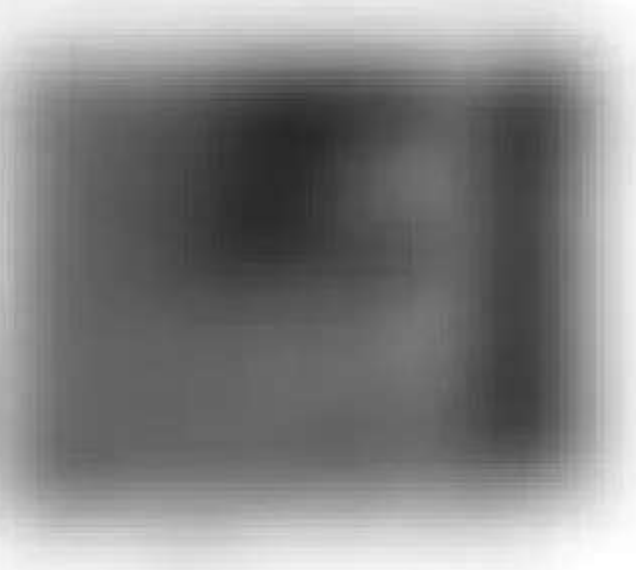
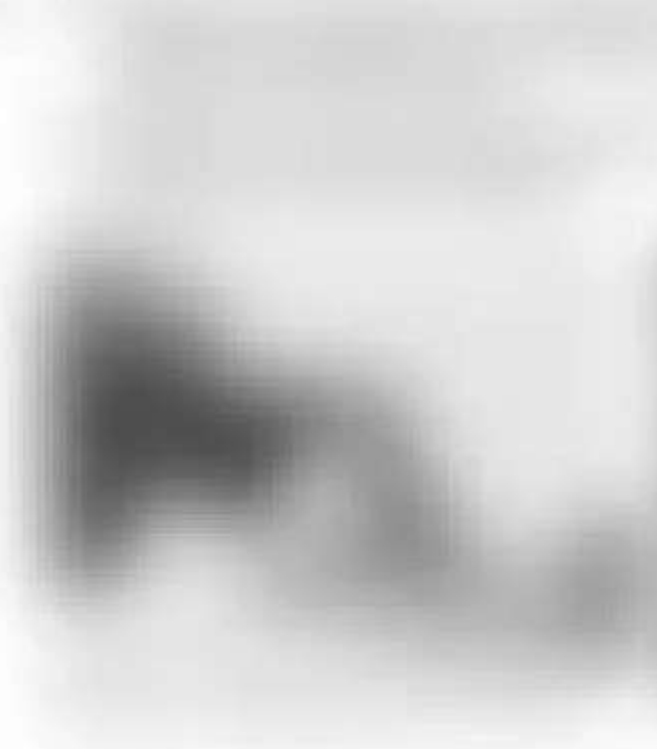


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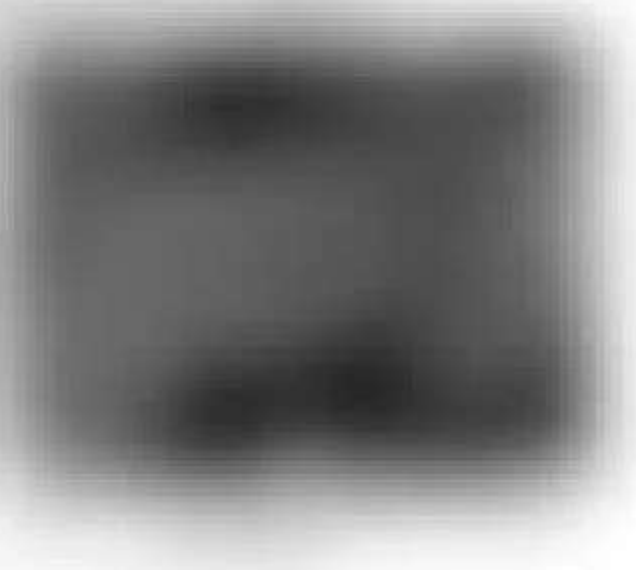
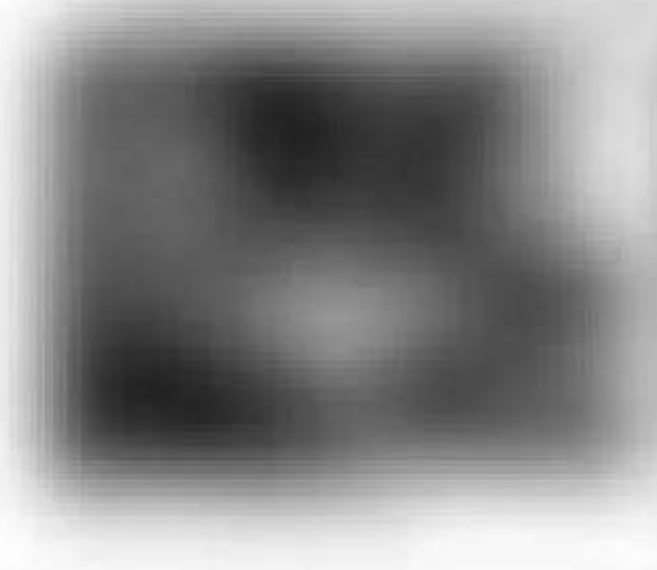


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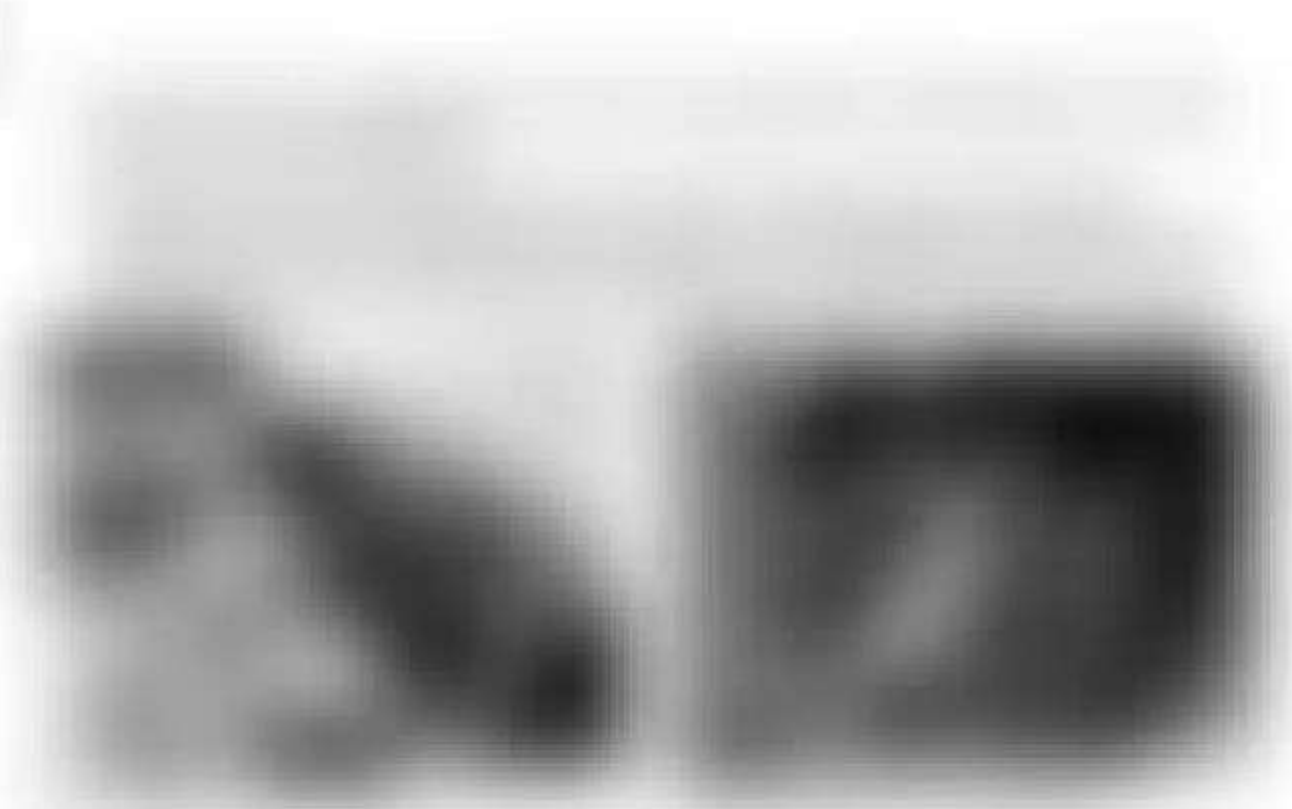


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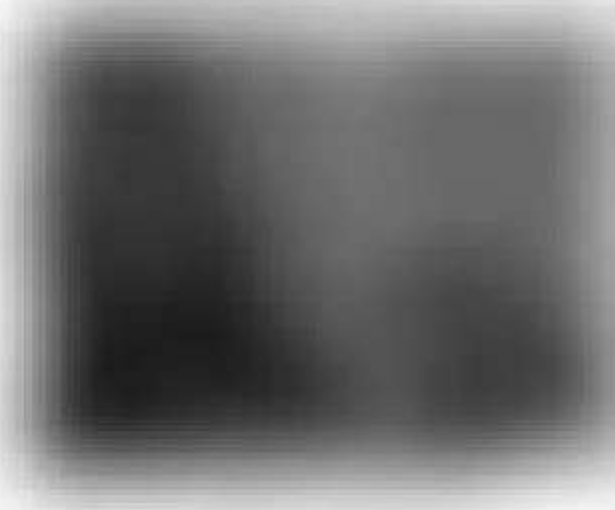


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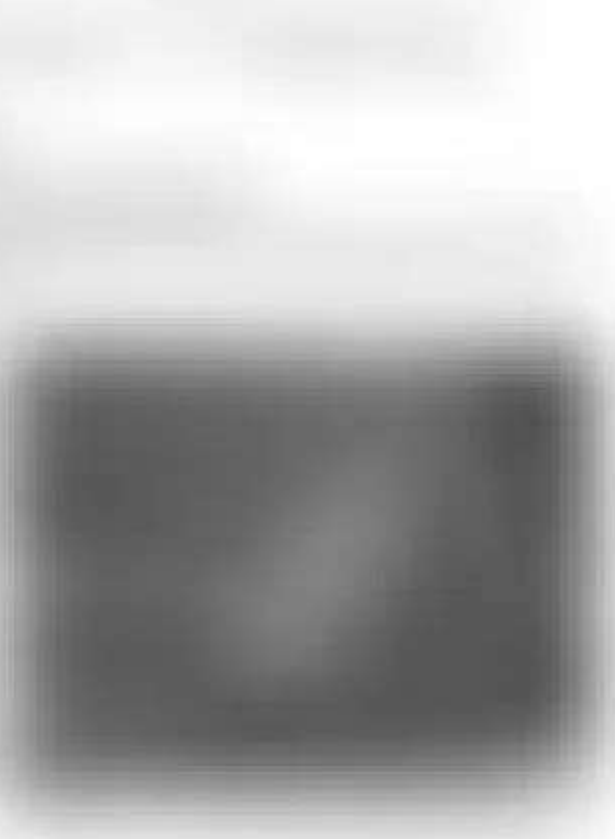


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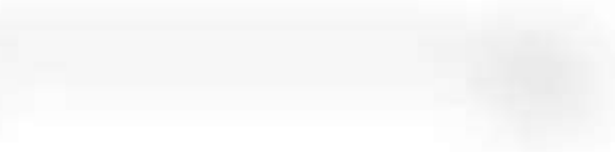
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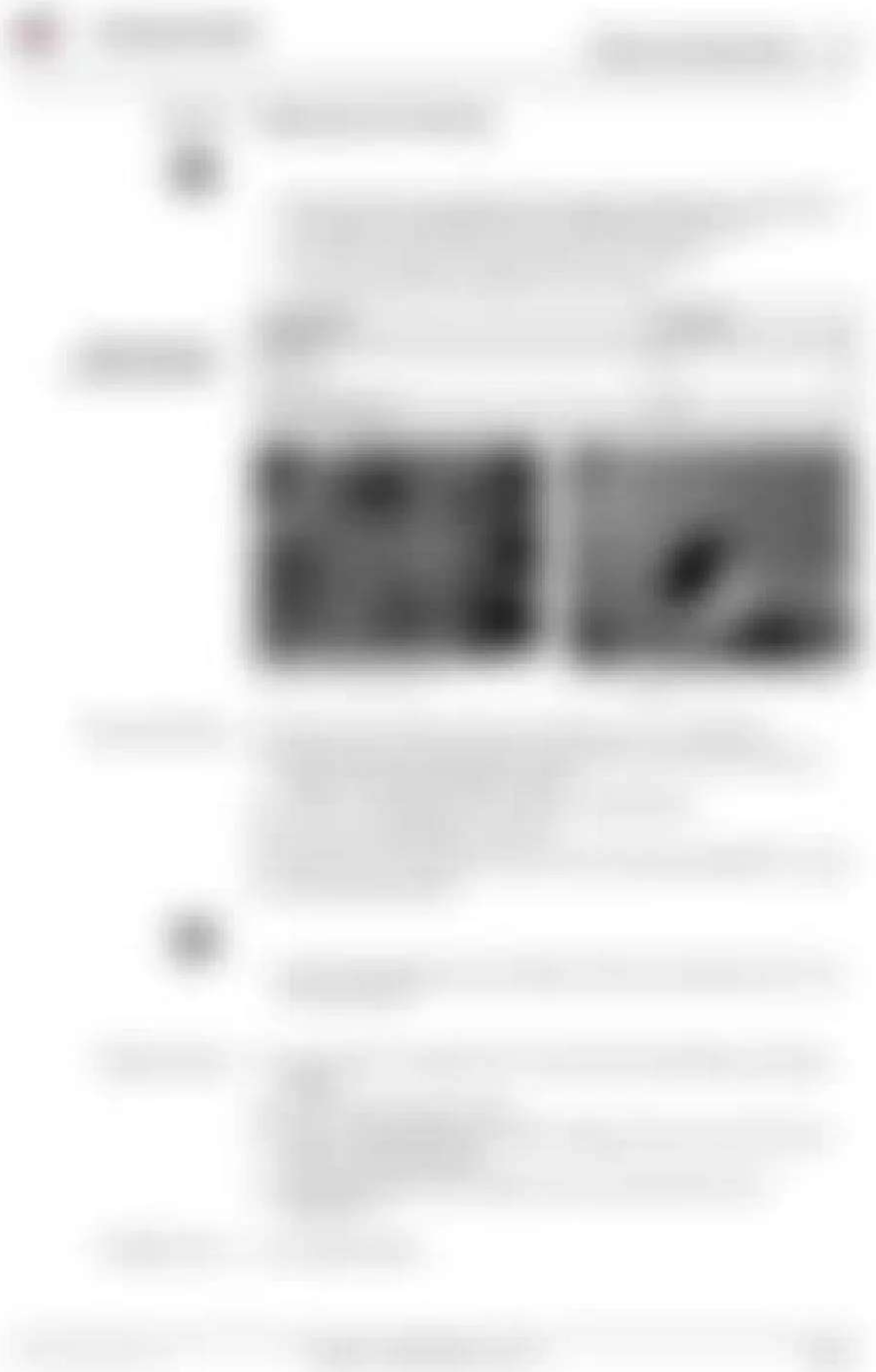














Header text or title

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Main body text, second paragraph

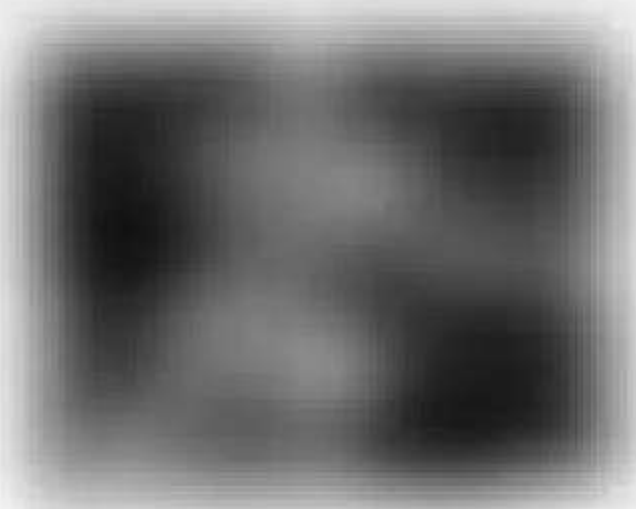
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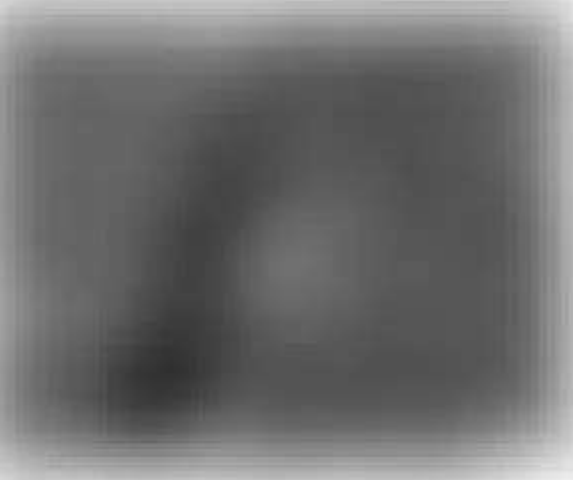
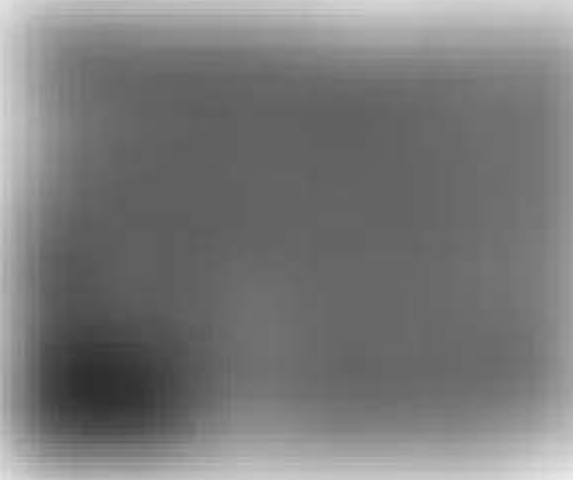


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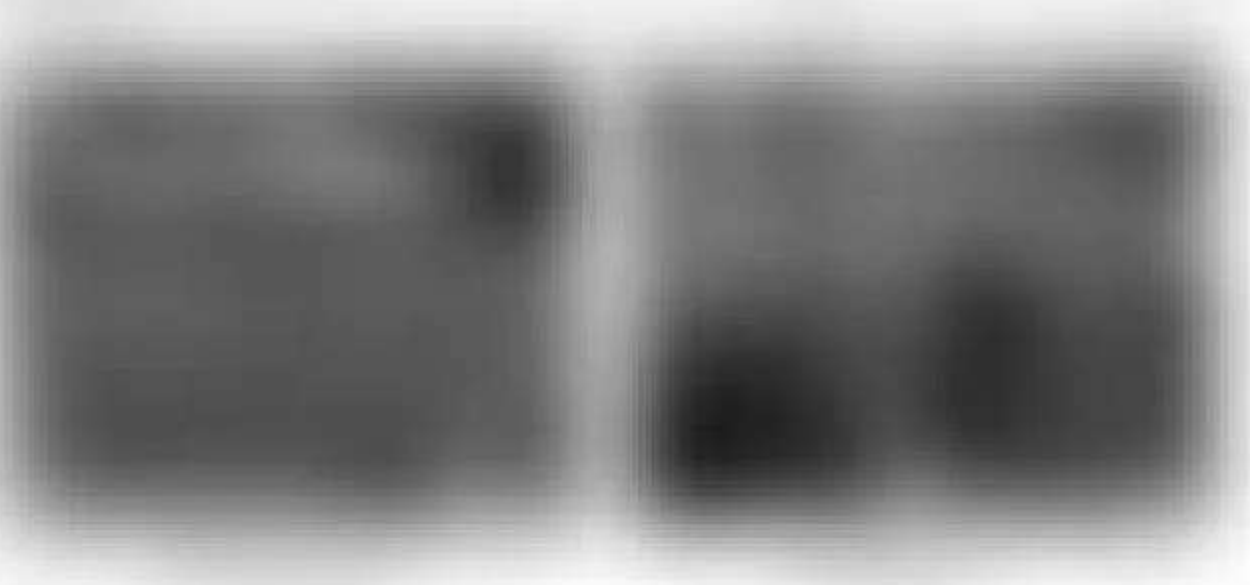




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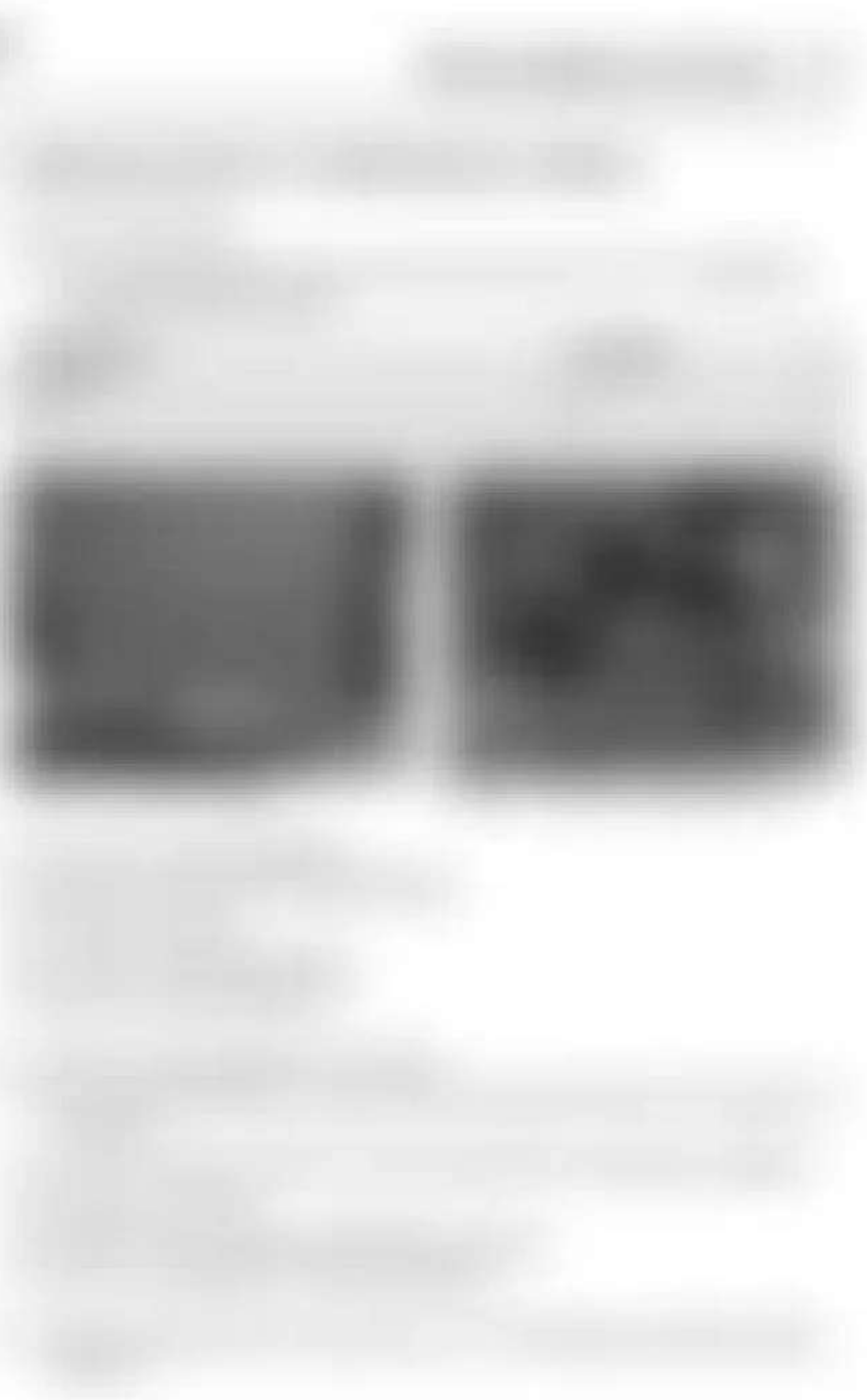
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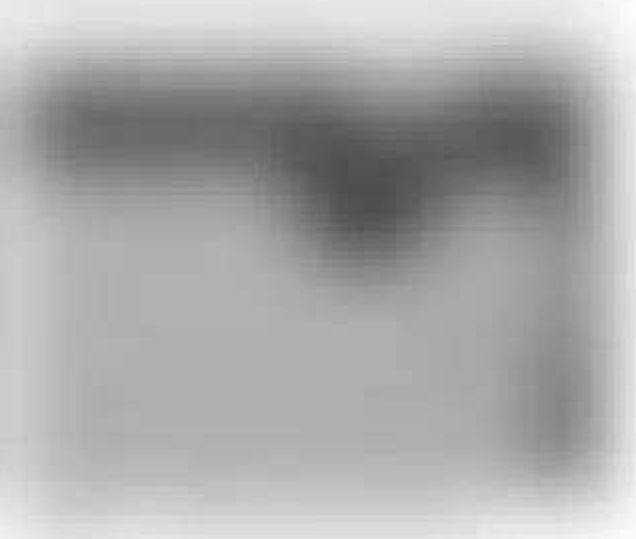
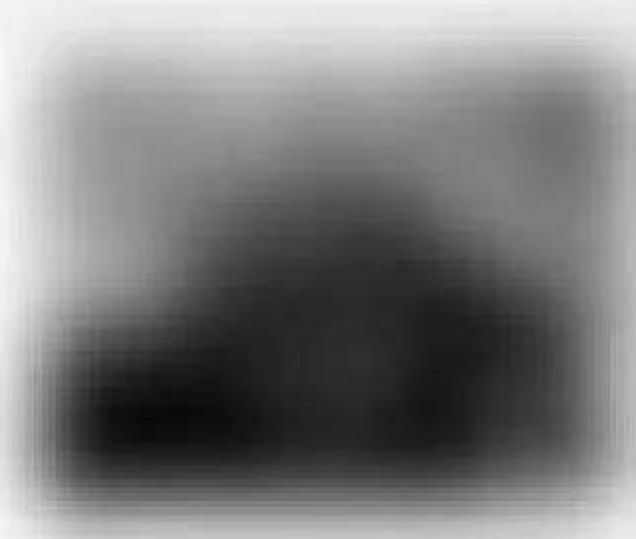












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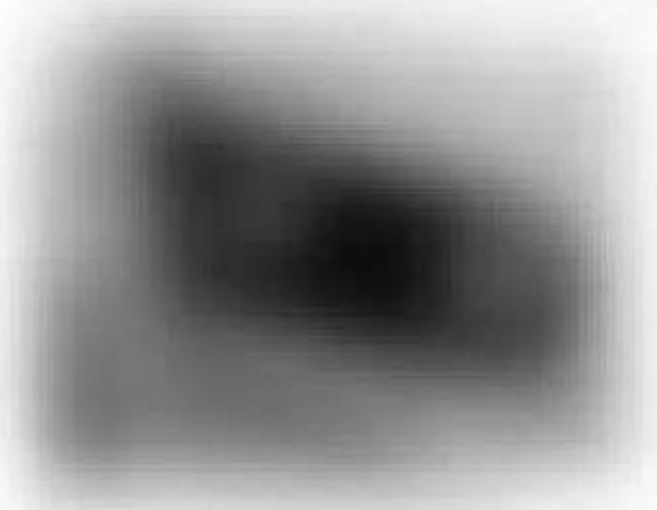


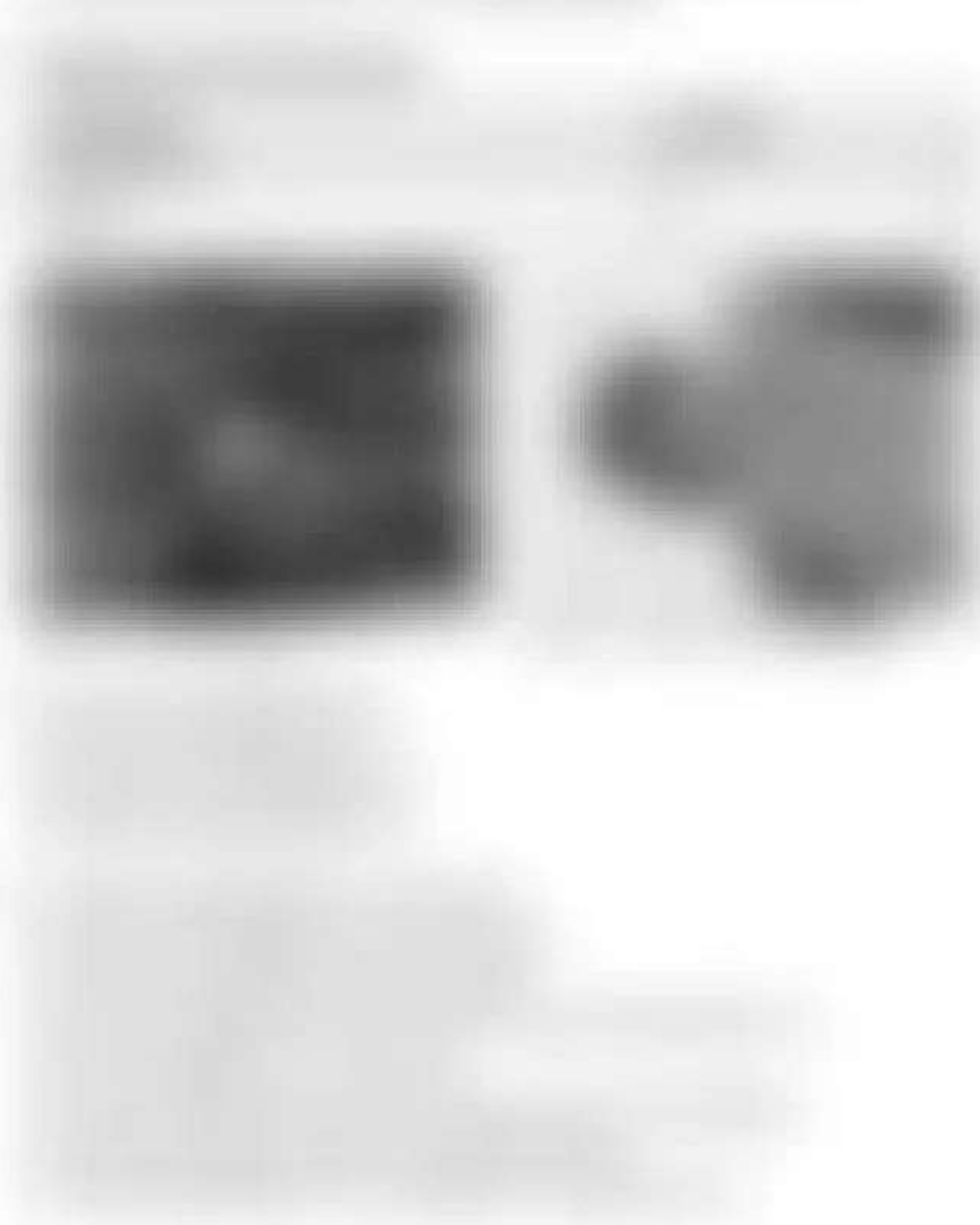
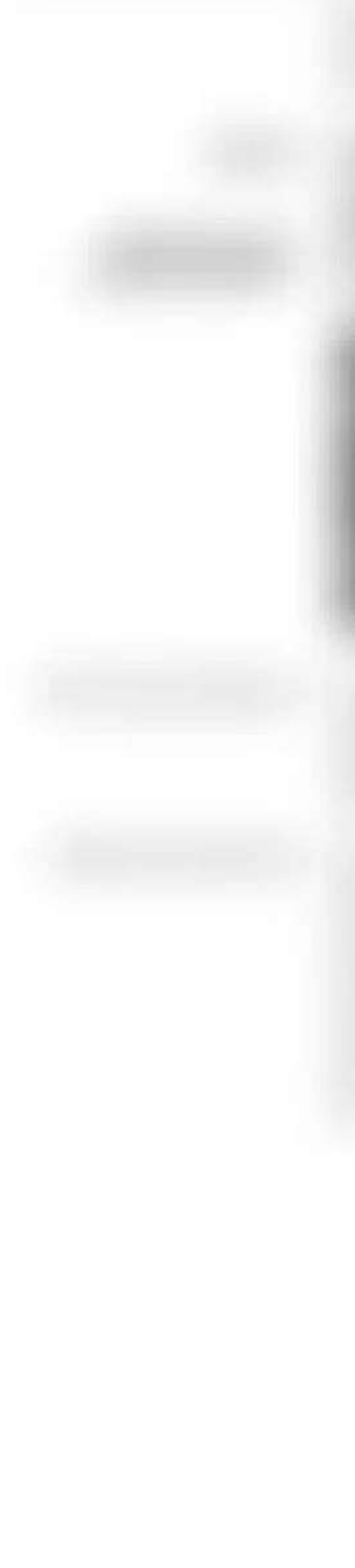




















1. Introduction

2. Methodology

3. Results

4. Discussion

5. Conclusion

The first part of the document discusses the background and objectives of the study.

The methodology section describes the research design and data collection methods.

The results section presents the findings of the study, including statistical analysis.

The discussion section interprets the results and compares them with existing literature.

The conclusion summarizes the main findings and provides recommendations for future research.



The final part of the document provides a summary of the key points and a list of references.

References

1. Smith, J. (2010). The impact of climate change on global agriculture. *Journal of Environmental Science*, 12(3), 45-55.







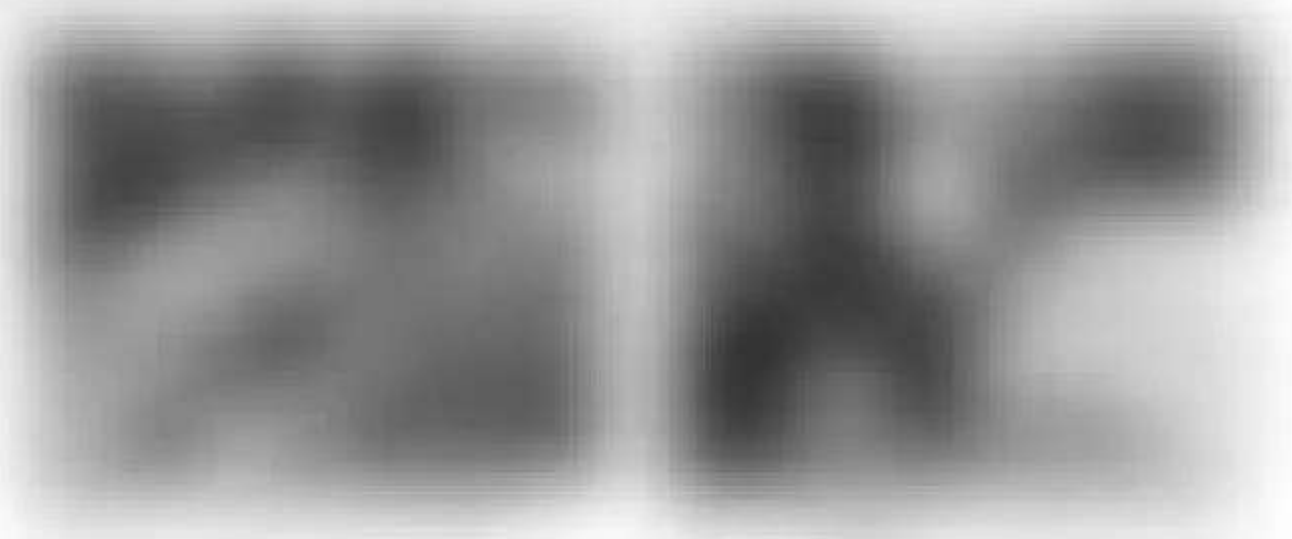


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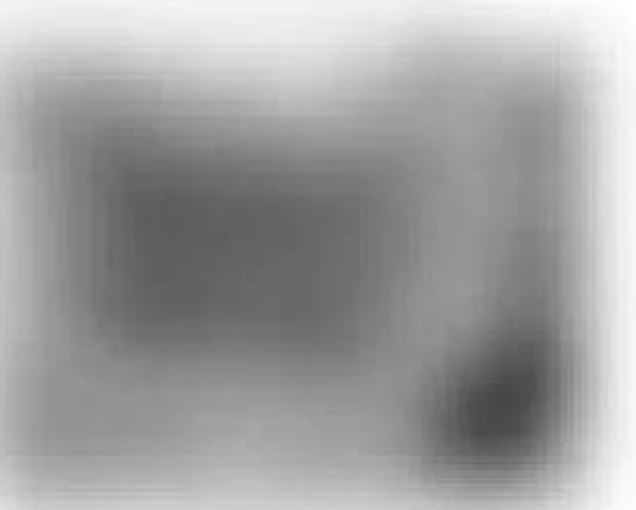
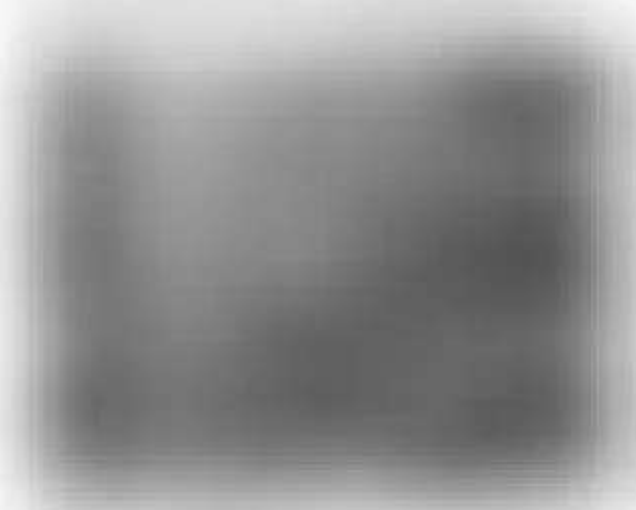
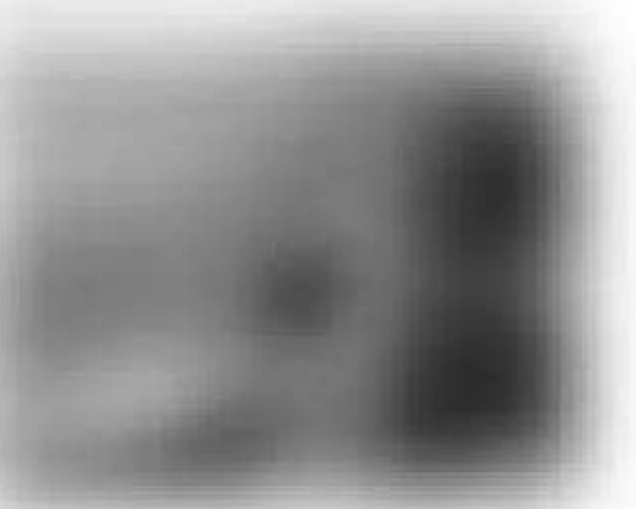
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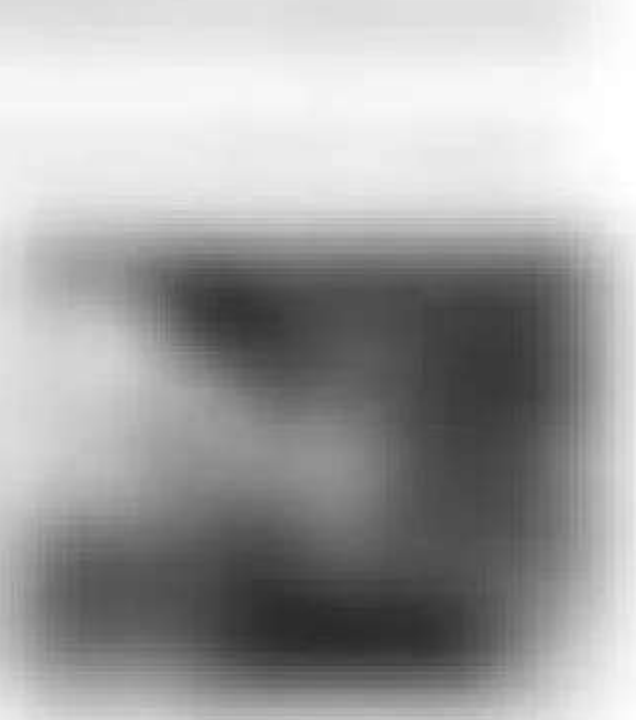
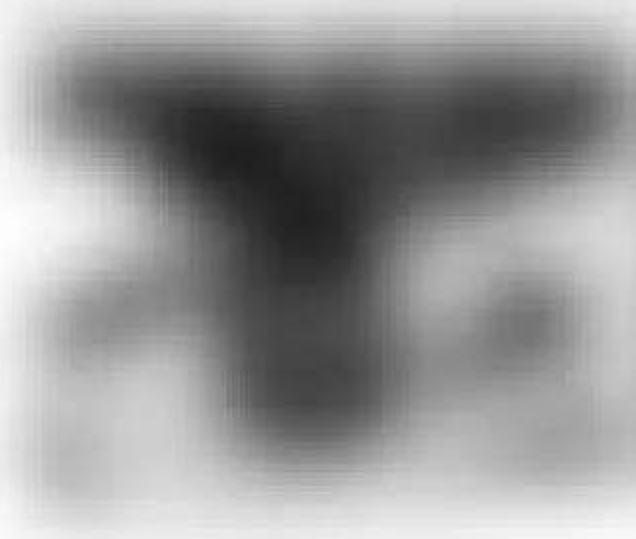






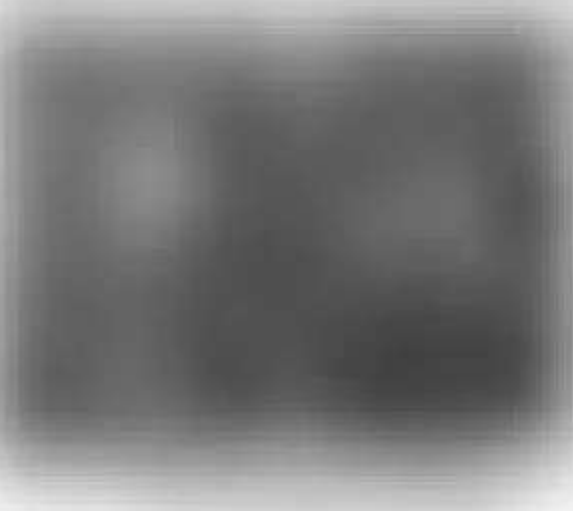








- 1. Introduction
- 2. Safety
- 3. Operation
- 4. Maintenance
- 5. Troubleshooting

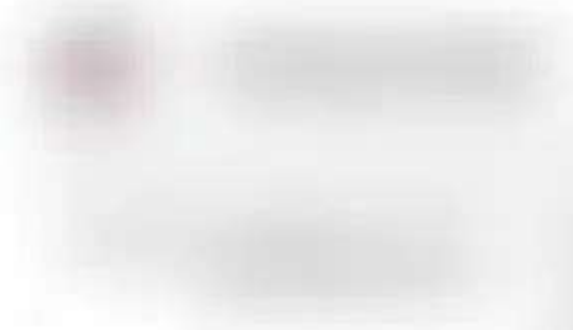


- 6. Specifications
- 7. Warranty
- 8. Contact Information

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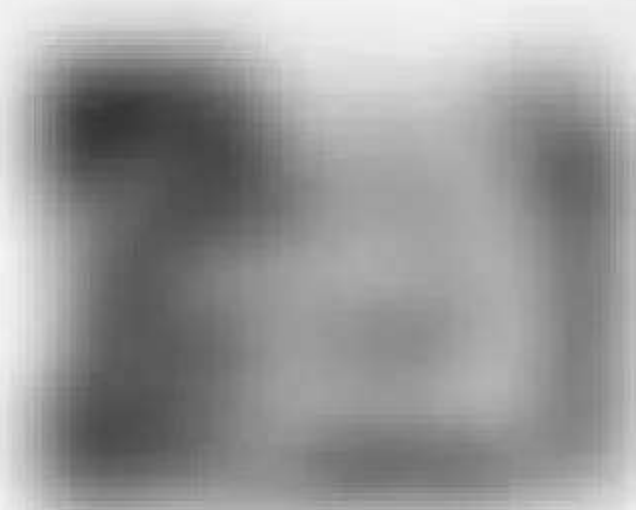












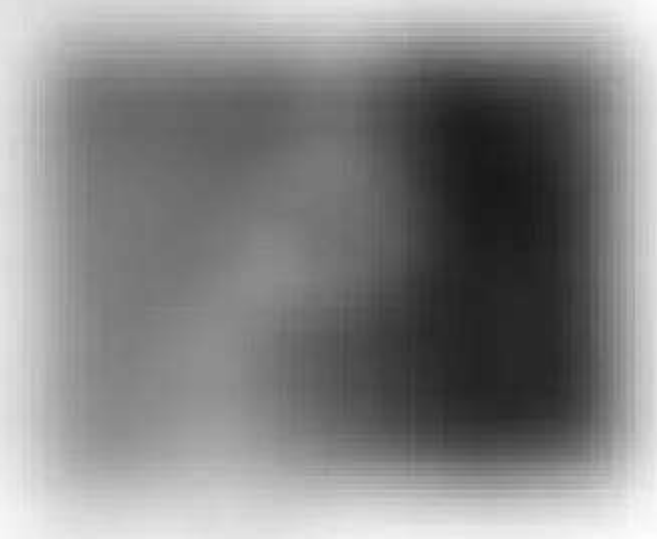
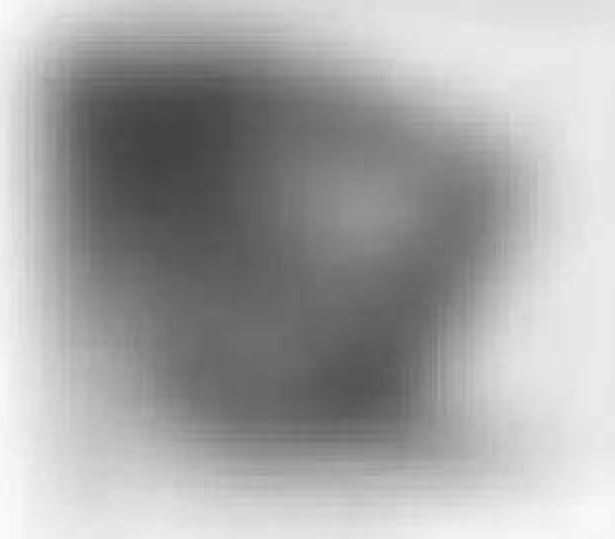
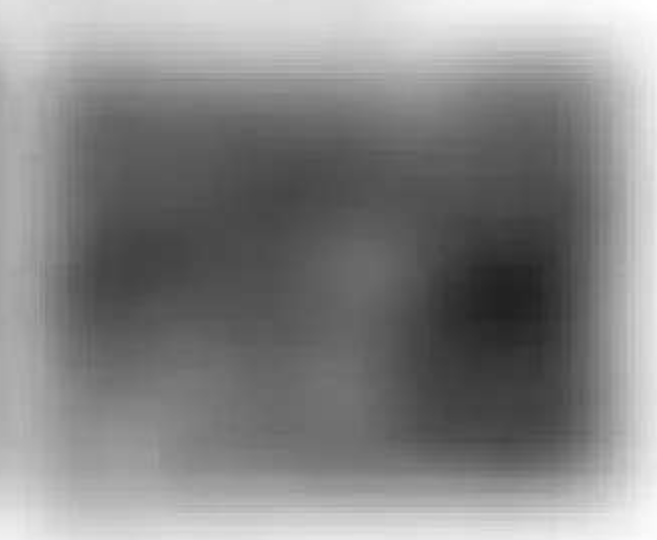
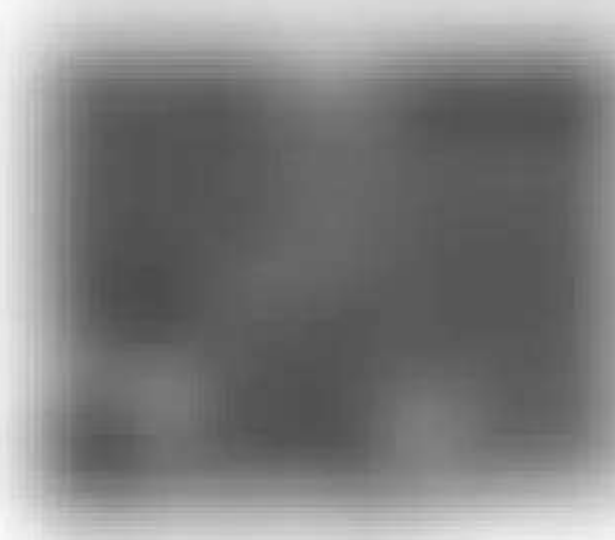
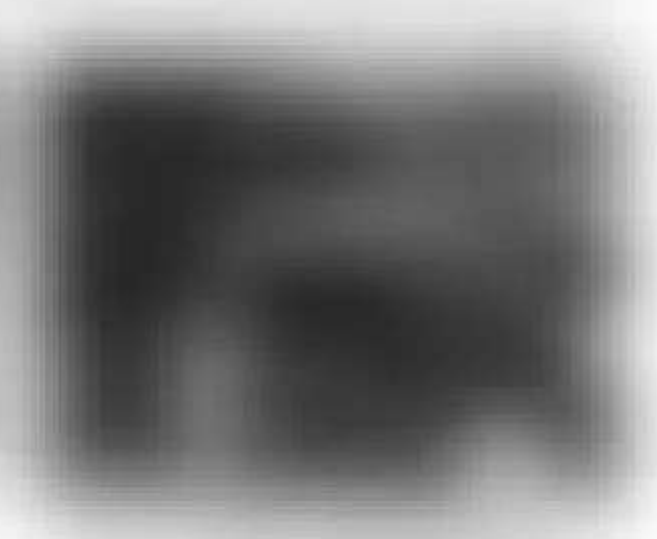
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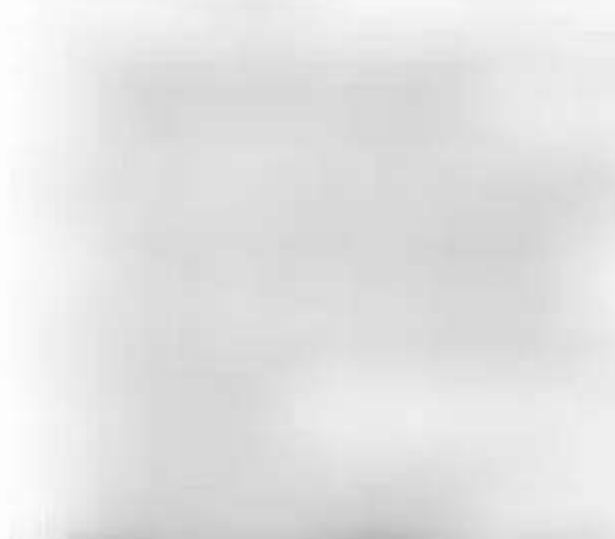
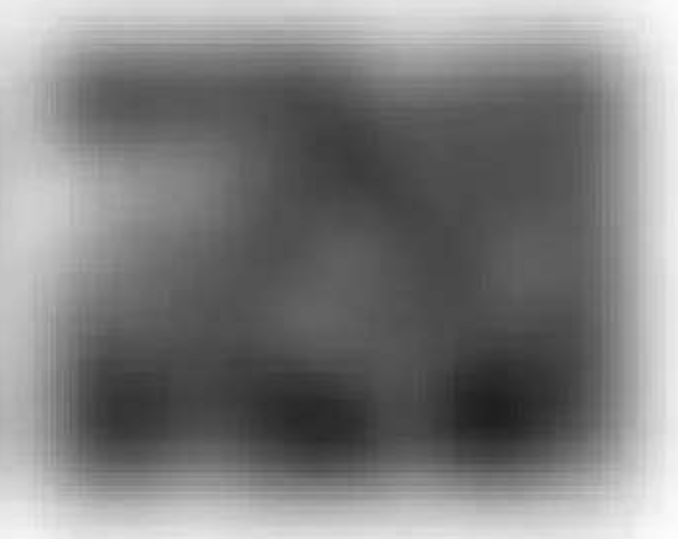






















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Section 1



Section 2

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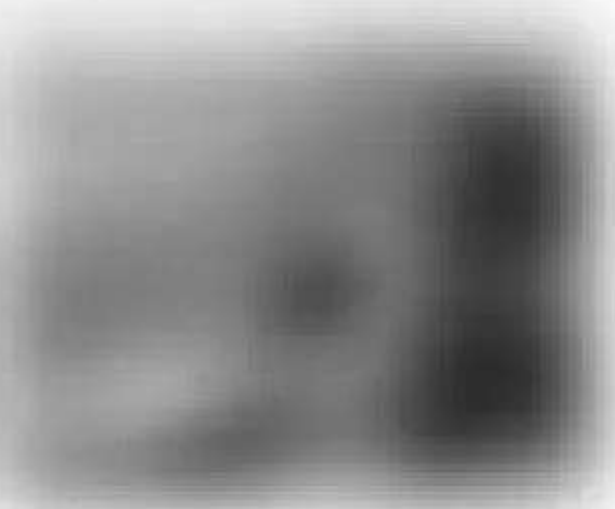
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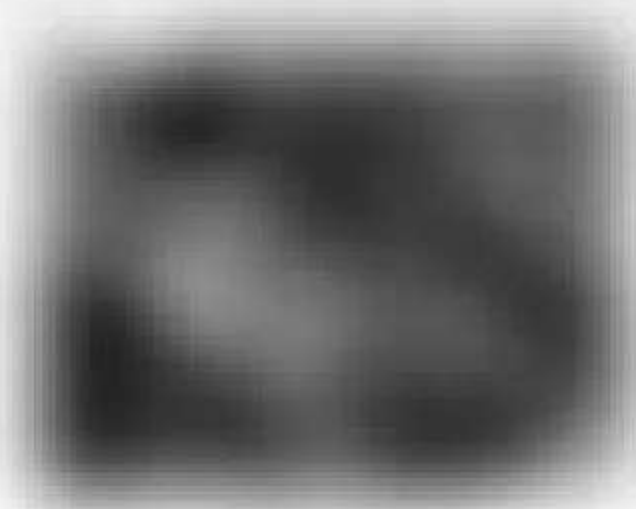
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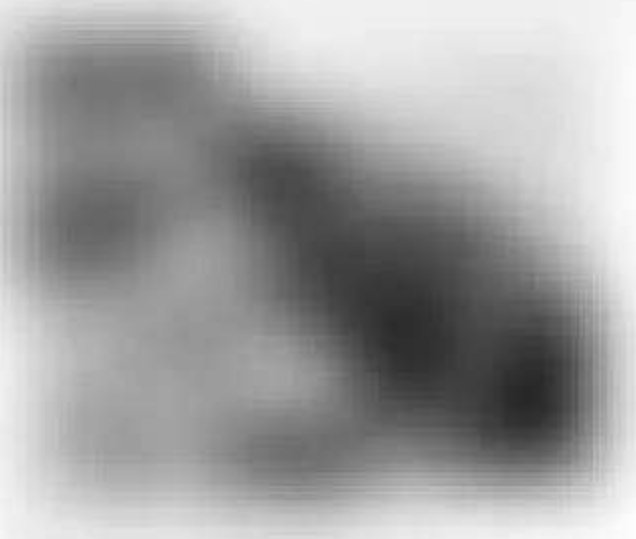
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1. Check the oil level.

2. Inspect the tires for wear and proper inflation.

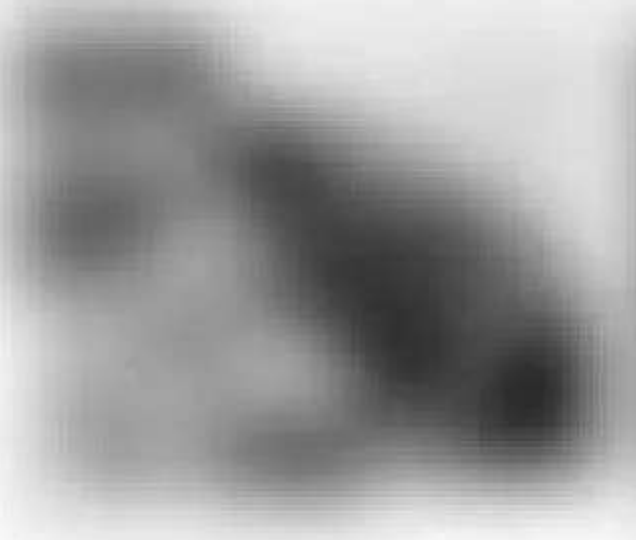
3. Verify the operation of the lights and signals.

4. Examine the hydraulic system for leaks.

5. Ensure that all safety features are functional.

6. Perform a test run to check for any unusual noises or vibrations.

7. Clean the tractor thoroughly.



8. Store the tractor in a clean, dry area.

9. Follow the manufacturer's maintenance schedule.

10. Keep records of all maintenance work.

11. Contact a qualified technician if you have any questions.

12. Always use proper safety procedures when operating the tractor.

13. Never drink and drive. Stay sober and focused.

14. Thank you for reading this manual.

15. We hope this manual has been helpful to you.

16. Please contact us if you need any further assistance.



1. Introduction

2. Methodology

3. Results



4. Discussion



5. Conclusion

The study has shown that the results are consistent with the hypothesis. The data indicates a significant correlation between the variables studied. Further research is needed to explore the underlying mechanisms.































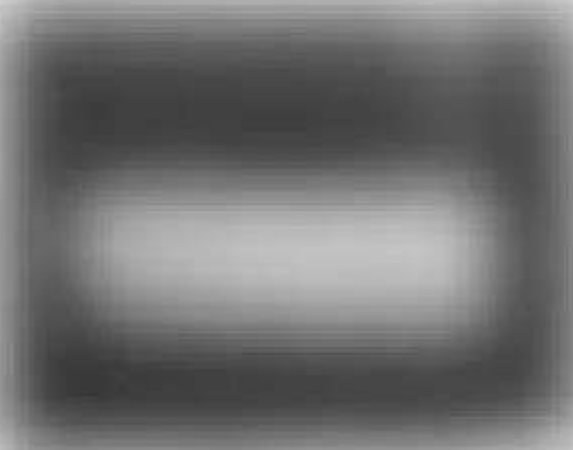




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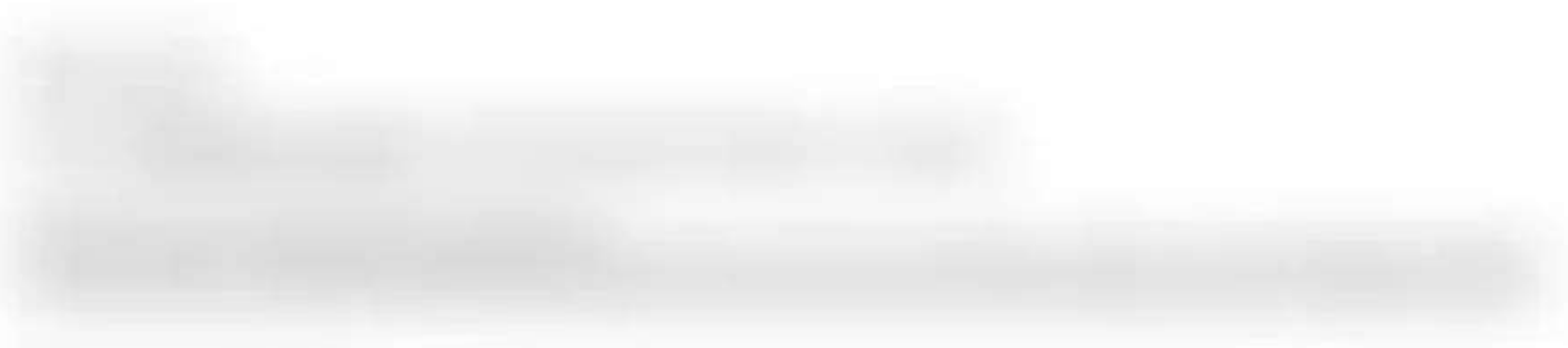




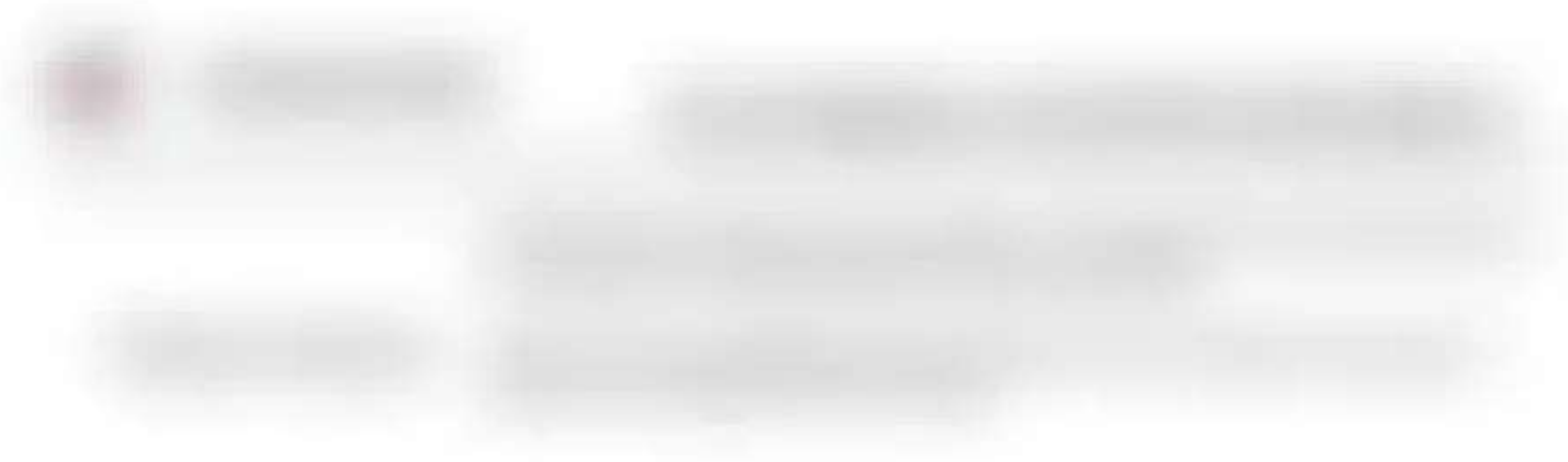






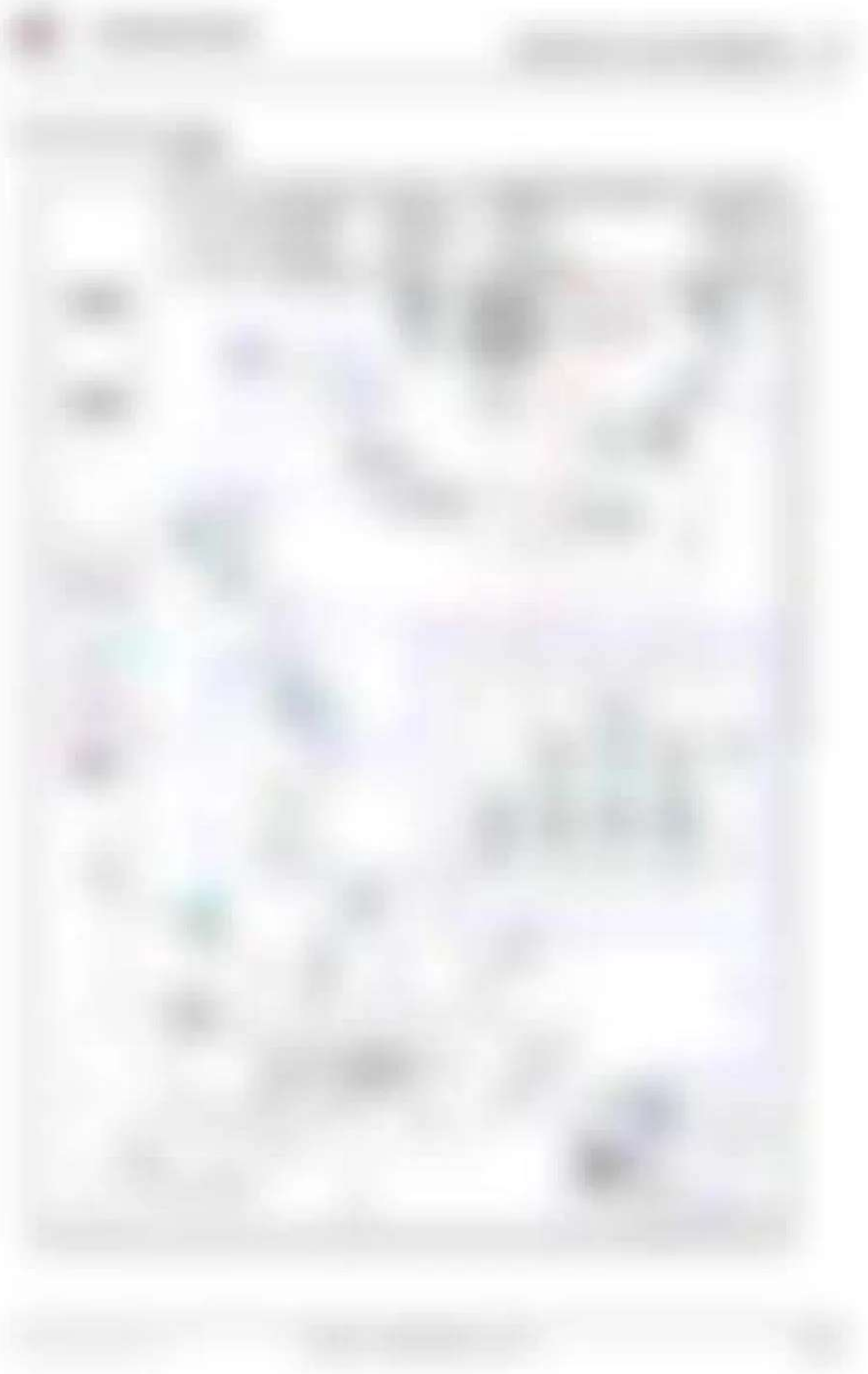




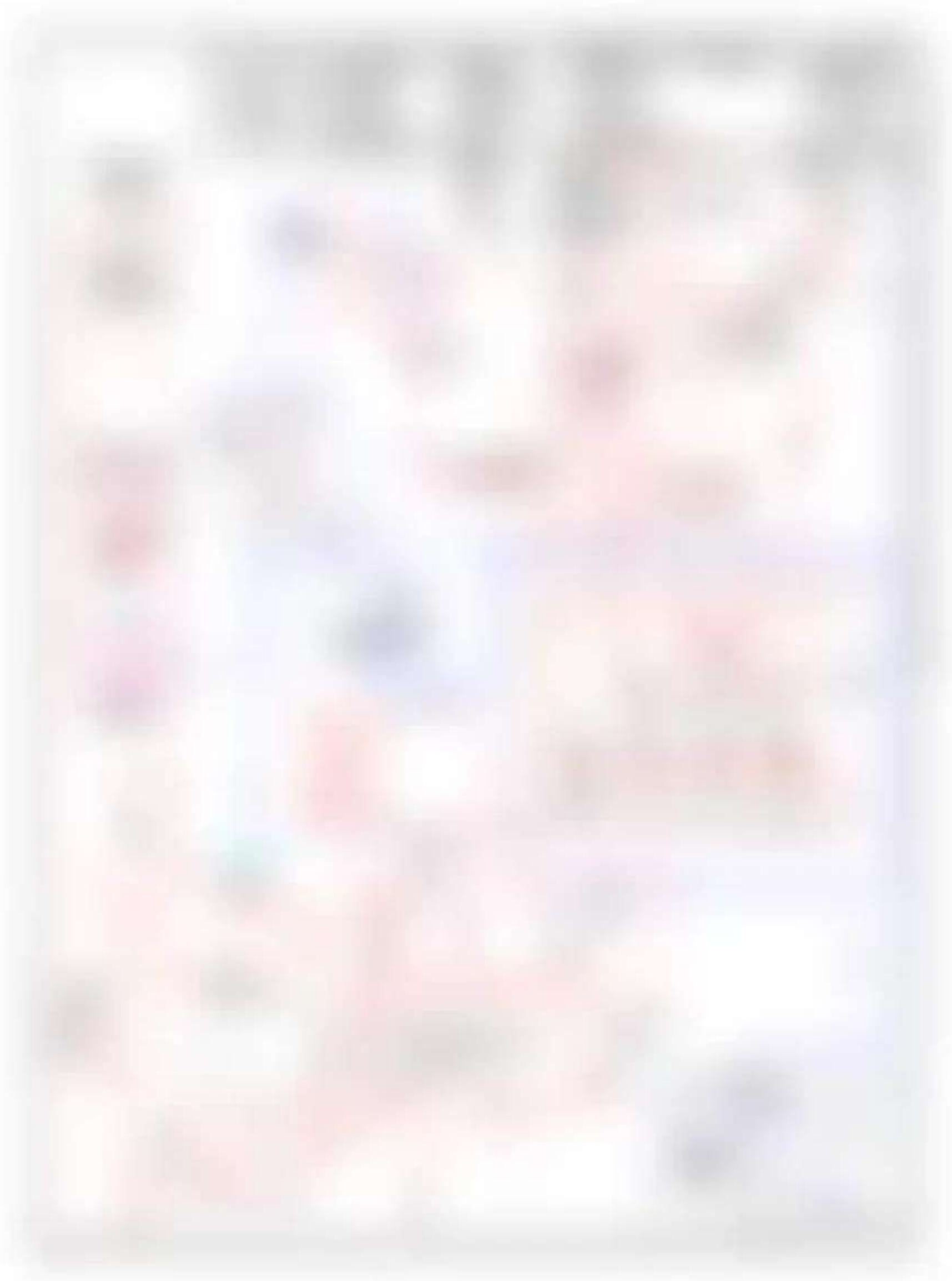




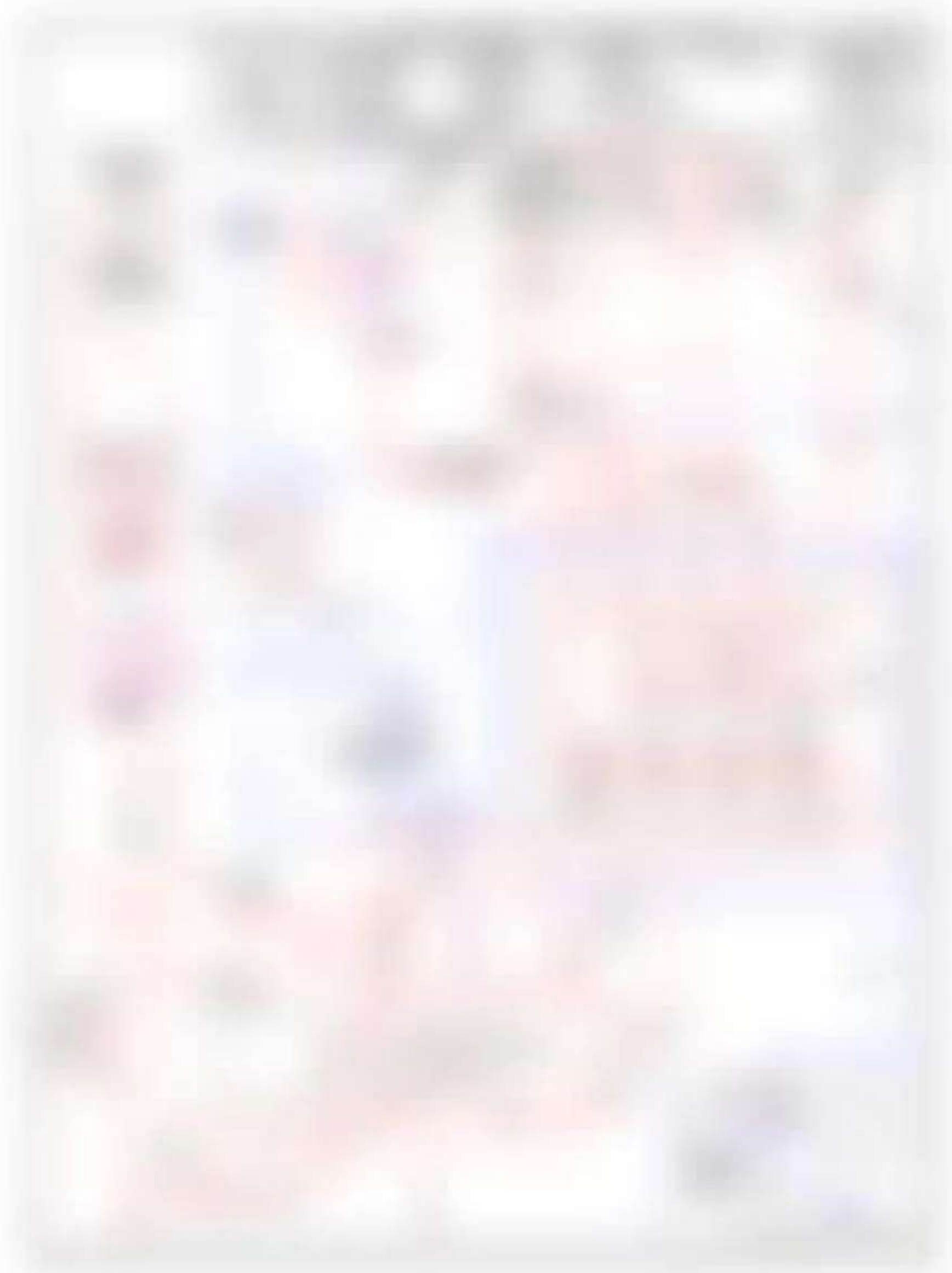




















































































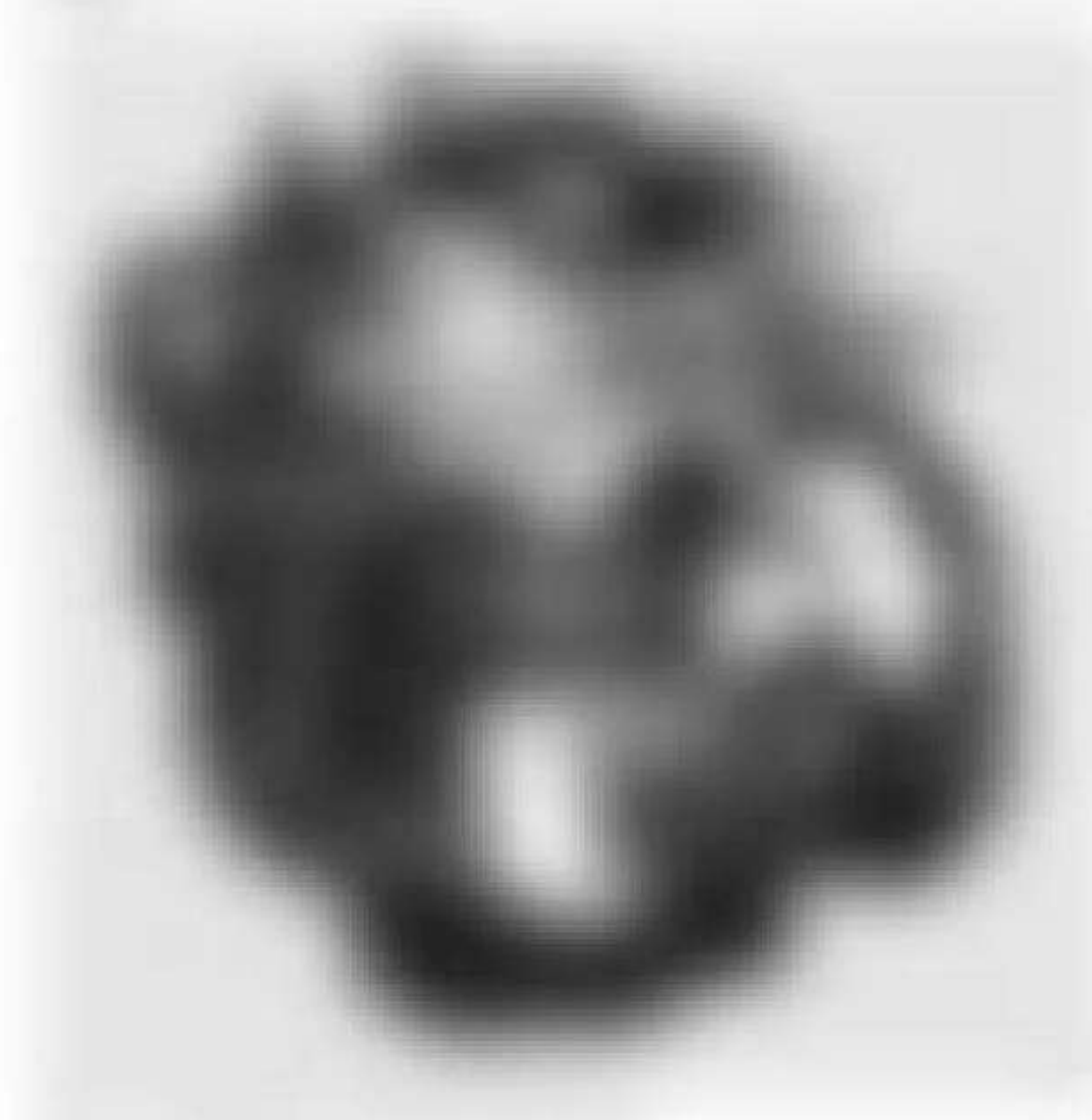










































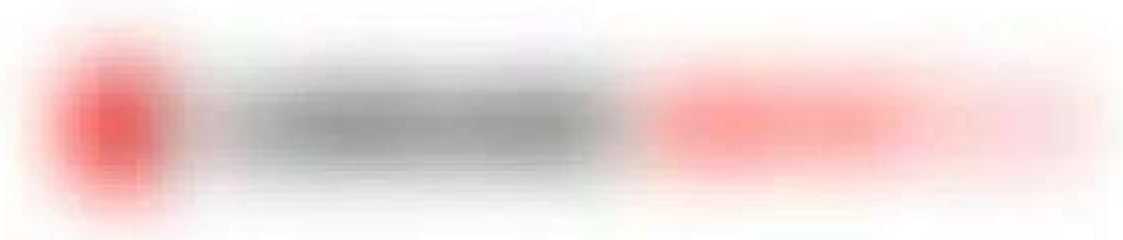


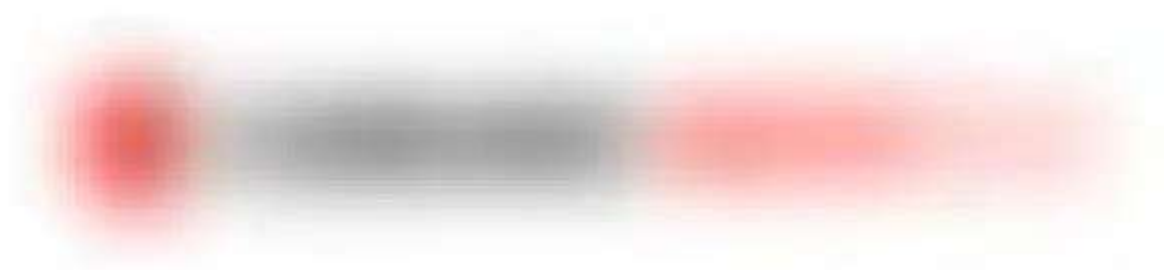








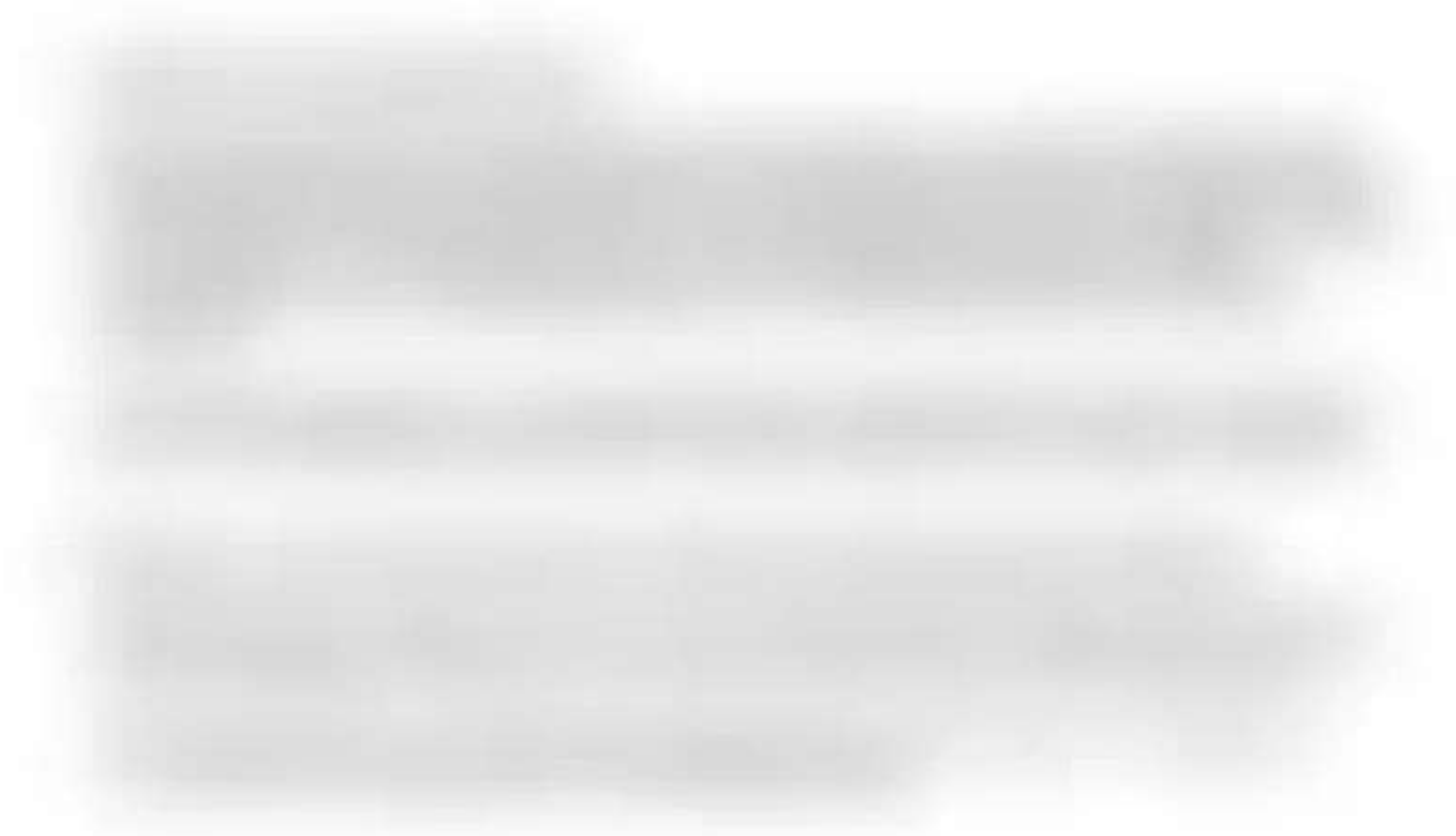
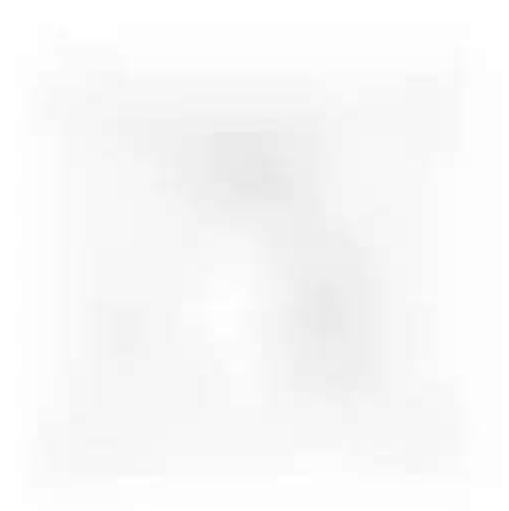
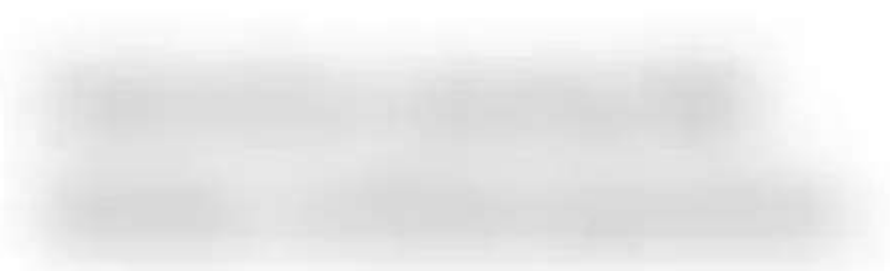


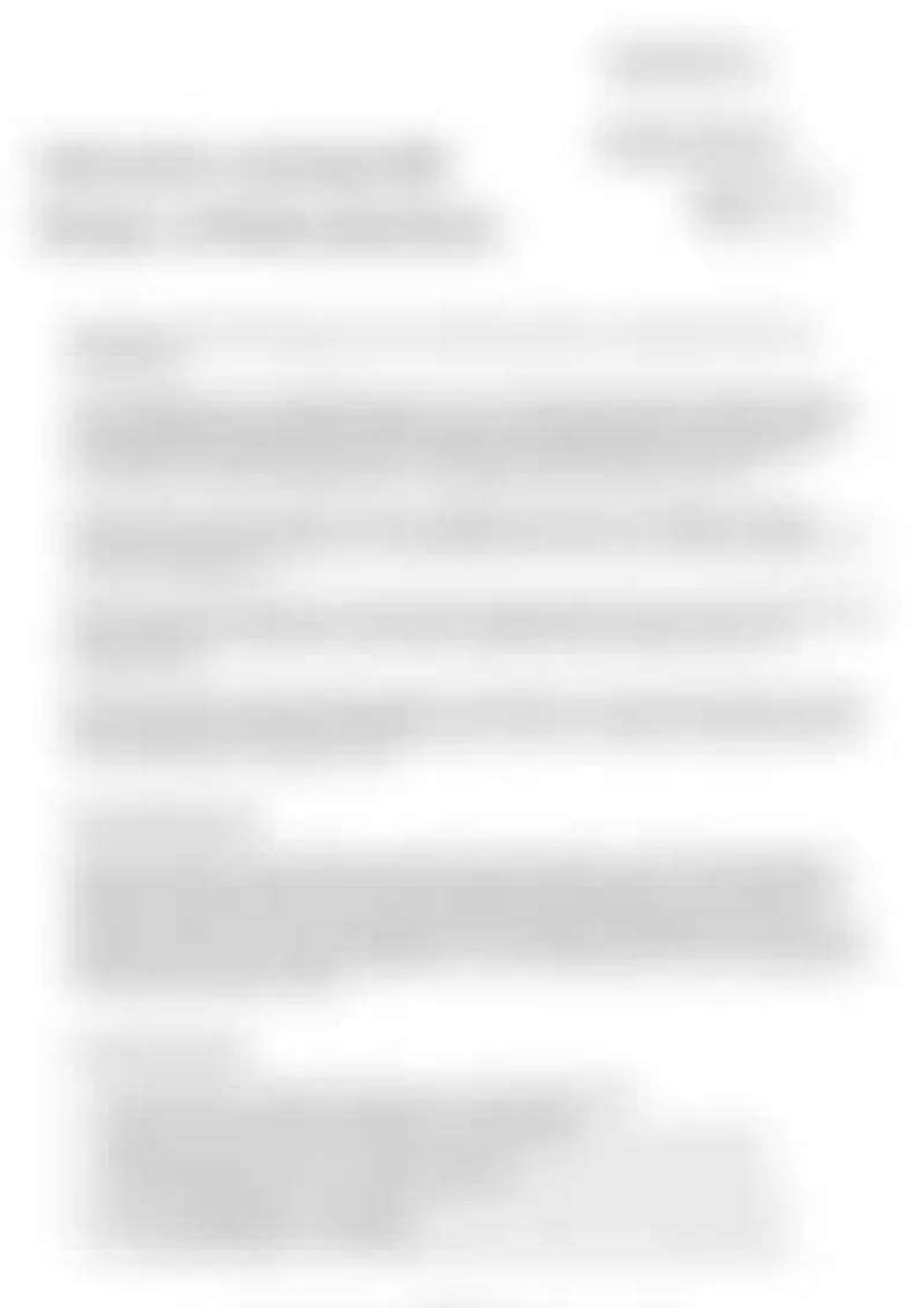














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